

WHELEN[®]

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

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[®], 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!**

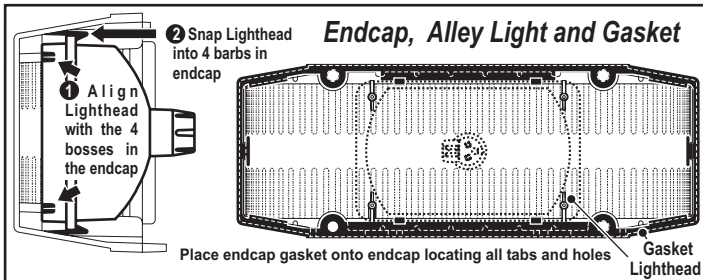
For warranty information regarding this product, visit www.whelen.com/warranty

4 Lighthoods: Installation & Wiring

WARNING! The strobe light power supply is a high voltage device. Do not remove the strobe tubes or dismantle the strobe lighthoods 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, lighthoods or filler panels necessary to access the power distribution board (Figs. 1 & 2).

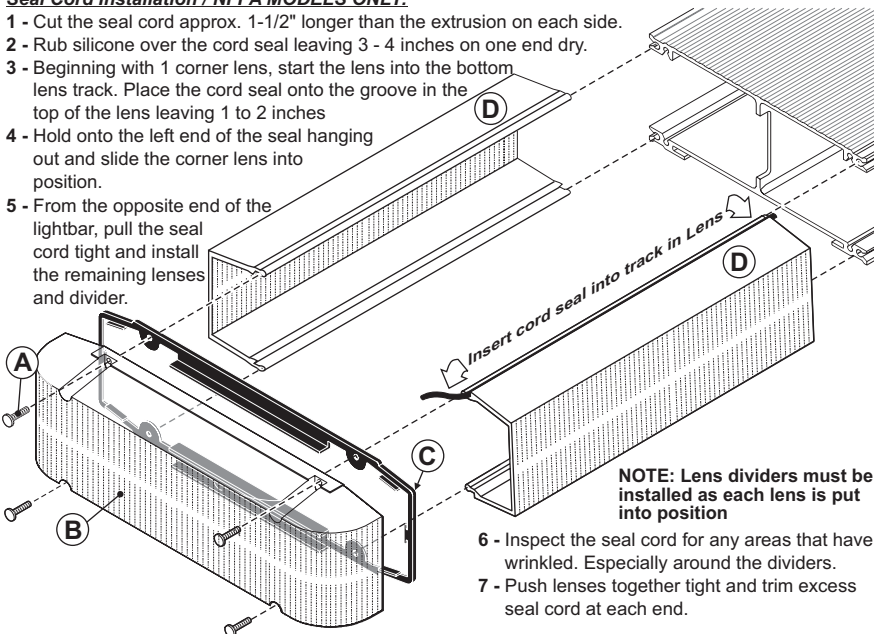


Removing the Endcap and Lenses

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 silicone 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.



3. Install the flasher board (Fig. 3) then find the halogen power harness with a 2 socket connector on each end. Plug one end into port "A" on the power distribution board and the other end into the flasher board.
4. Plug the 4-position connector of the halogen input harness (coming from the main harness) into the input port of the flasher board.
5. Plug the 4-pin connector of the takedown harness into flasher port "A" of the flasher board and the two Amp connectors into two of the lighthoods.
6. Plug the 4-pin connector of the rear flasher harness into flasher port "B" of the flasher board and the two Amp connectors into the other two lighthoods.
7. Install the four lighthoods into the lightbar base along with any existing options you removed. To reinstall the lighthoods and lenses in proper order, refer to the switch operations sheet included with the lightbar.
8. Plug in the alley lights (if present) and replace the endcaps. Installation is now complete and you may test the lightbar.

IMPORTANT WARNING!

CAUTION! DO NOT LOOK DIRECTLY AT THESE LEDS WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

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!

Fig. 2

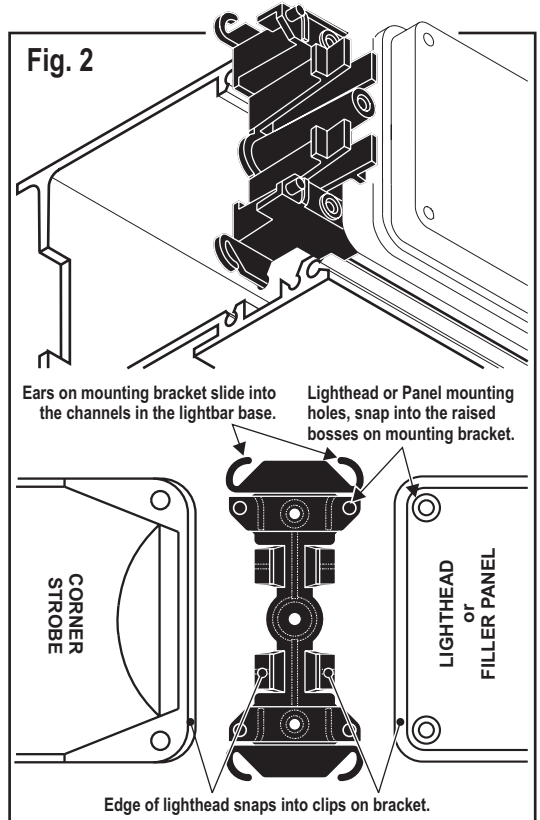
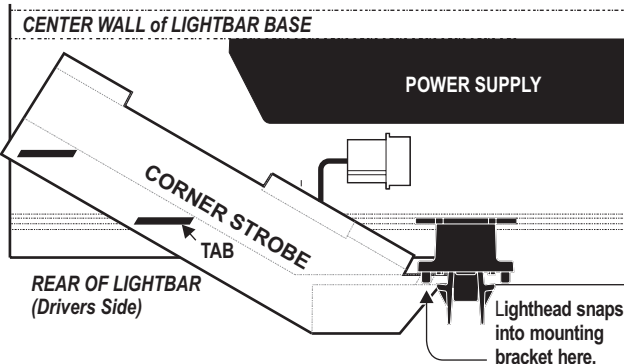
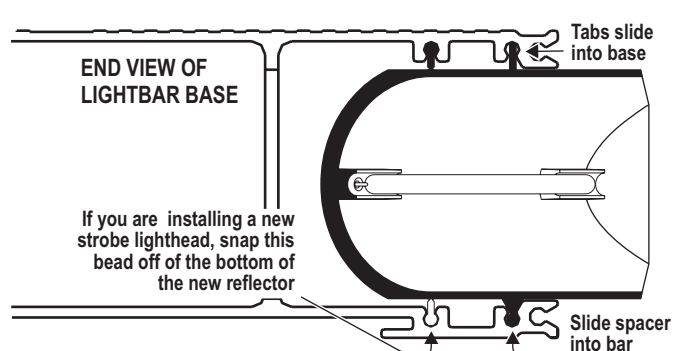


Fig. 1 Corner Strobe / Top view of lightbar base



Corner Strobe / End view of lightbar base



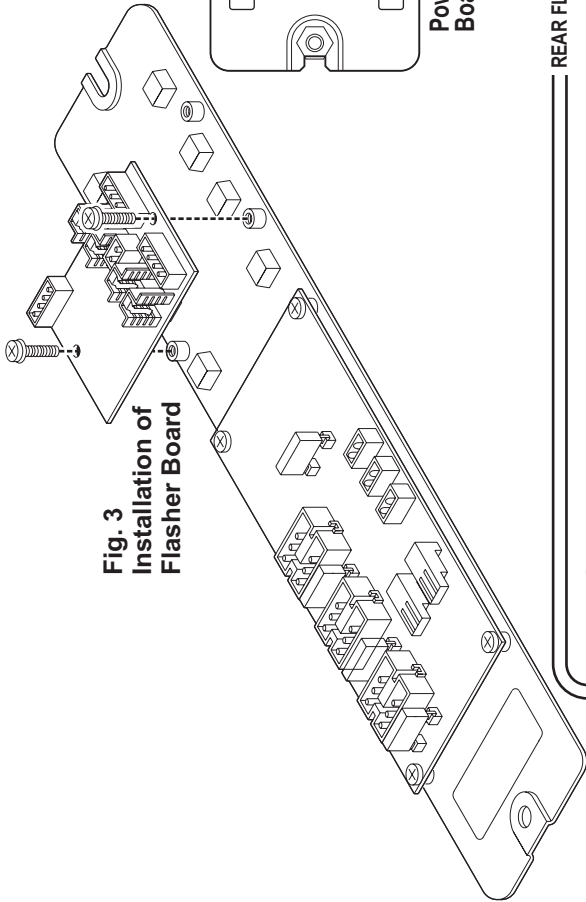
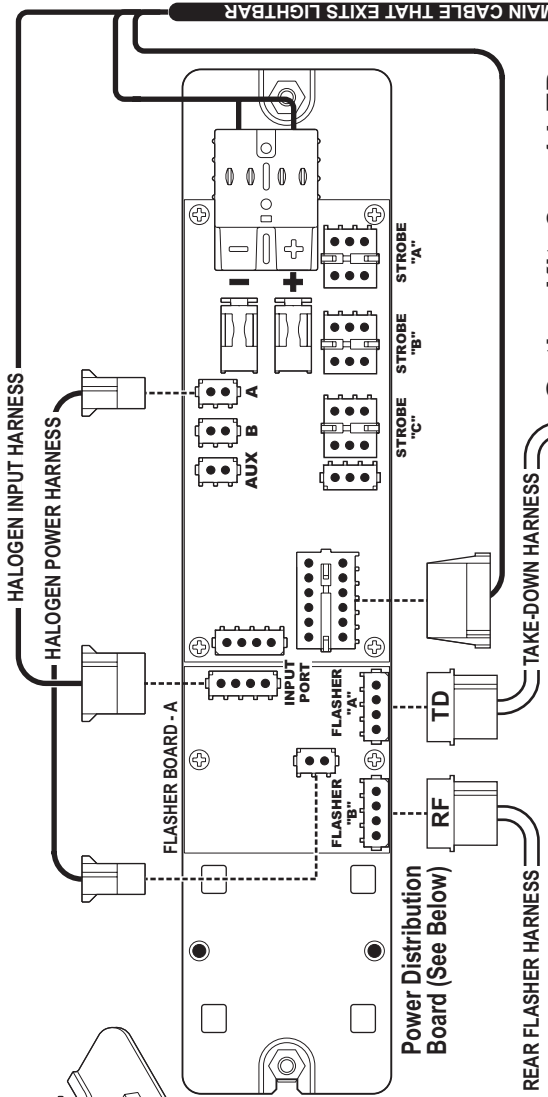


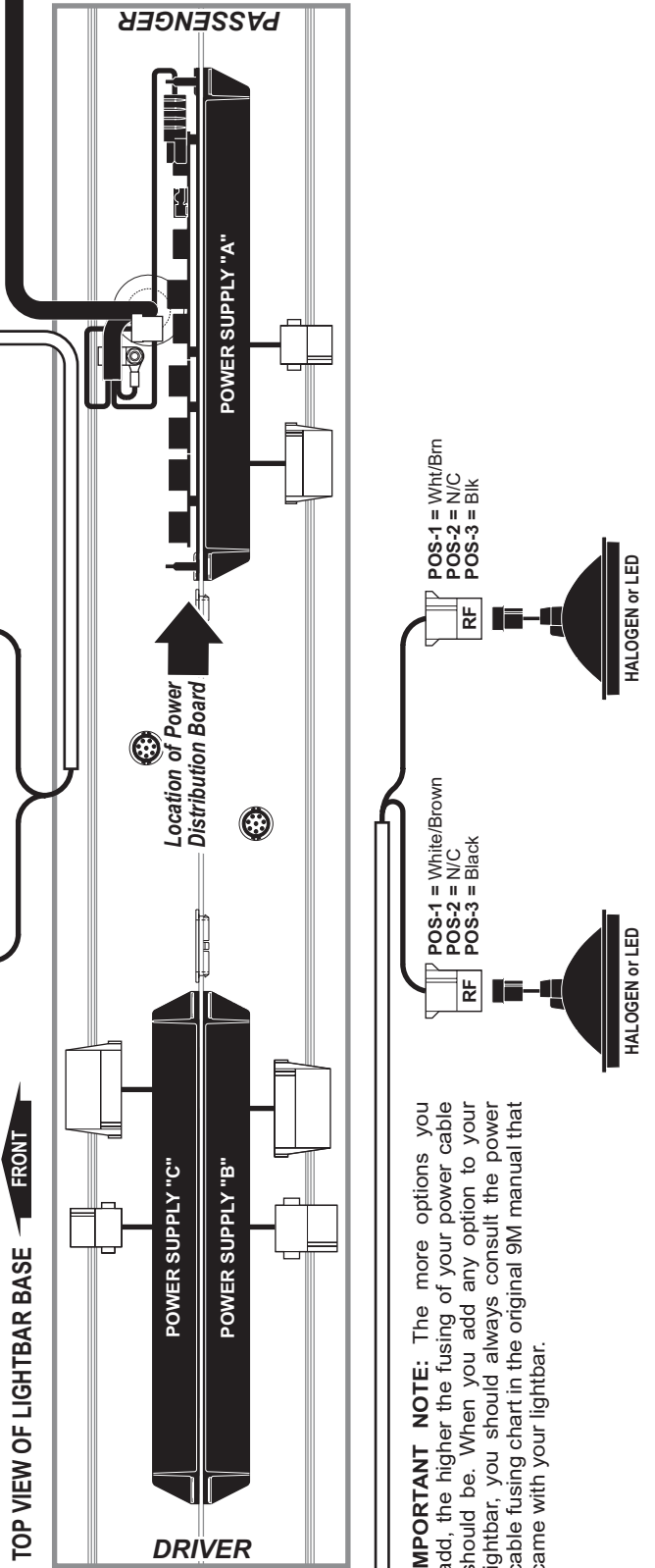
Fig. 3
Installation of
Flasher Board

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!**



Option Kit: 2 or 4 LED or Halogen Lighthead and 1 Flasher

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



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.