

WHELEN[®]

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Installation Guide Edge Lightbars 943-series

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 product is mounted with 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 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.**
- **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!**

Mounting your Edge Lightbar

Refer to the Lightbar mounting guide included with your lightbar

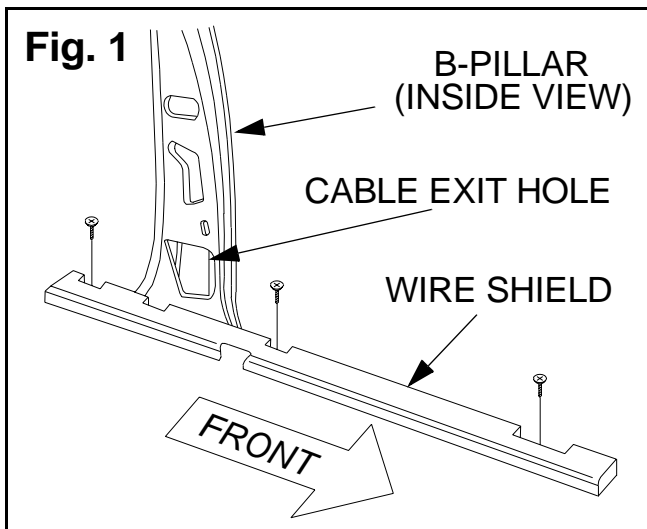
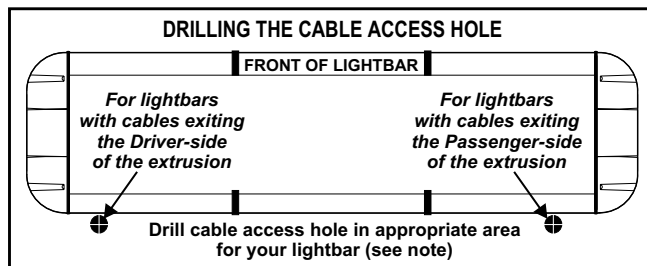
Routing your Edge Lightbar Cable(s)

1. To protect the headliner from damage caused by drilling the cable access hole through the vehicle roof, allow a 5" to 7" distance between roof and headliner by lowering the headliner before drilling.
2. Using a 1" hole saw, drill the cable access hole.

NOTE: There may be a roof support member that spans the distance between the driver's and passenger's side. DO NOT DRILL THROUGH THIS MEMBER! Adjust the location until the hole can be drilled without contacting this support member.

3. Use a round file to smooth and de-burr the edges of the hole.
4. Insert a 1" grommet (user supplied) into the cable access hole.
5. Insert the cable(s) through the cable access hole into the vehicle. Use RTV silicone to weatherproof the access hole after the cable(s) are pulled completely into the vehicle.
6. Route the cable(s) down through the B-pillar. The cable(s) must make a 90° turn to enter the B-pillar. Although routing the cable in this manner may be difficult, this has been determined to be the best procedure. It is up to the installation technicians discretion whether to route the cable(s) as recommended or use an alternative route. Pull the full length of the cable(s) out of the hole at the base of the B-pillar (Fig. 1) and route towards your switch panel. Refer to the instructions included with your switches for switch wiring information.

NOTE: The outer surfaces of this product may be cleaned with mild soap and water. Use of any other chemicals may void product warranty. Do not use a pressure washer.



CONTROL CABLE

1. RED - Apply +12 VDC to this wire for strobe functions. Fuse at 15 amps.
 2. GREY - Activates rear outboard strobes. Fuse at 3 amps.
 3. VIOLET - When this wire is grounded, this will initiate high power operation of all strobes. The lightbar must be turned off, then on again to restart in low power mode. Fuse at 3 amps.
 4. BLACK - This is the GROUND wire for all outboard strobes.
 5. WHITE/BLUE - When activated, the strobe flash pattern switches from Comet flash to double flash. Fuse at 3 amps.
 6. WHITE/VIOLET - When activated, the strobe flash pattern switches from Comet flash to random flash. Fuse at 3 amps.
- NOTE! Activating wires 5 and 6 simultaneously, switches the strobe flash pattern from Comet flash to Sequential Flash.**
7. YELLOW - Activates passenger alley light. Fuse at 5 amps.
 8. WHITE - Activates driver alley light. Fuse at 5 amps.
 9. WHITE/BLACK - Activates front take down lights. Fuse at 10 amps.
 10. WHITE/BROWN - Activates Rear Flasher (default). Fuse at 10 amps.
 11. WHITE/RED - Activates Front Flasher (default). Fuse at 10 amps.
 12. WHITE/ORANGE - Activates Center Option (default). Fuse at 10 amps.
 13. WHITE/YELLOW - Activates either Flashing Take-down or Steady Burn. Fuse at 10 amps.
 14. WHITE/GREEN - Activates Cruise Lights and/or Lighted Sign. Fuse at 10 amps.
 15. NONE - This is the RFI shield drain wire. Connect this to a solid chassis ground.
 16. BLACK/WHITE - This is a GROUND wire.
 17. BLACK/YELLOW - This is a GROUND wire.
 18. BLACK/GREEN - This is a GROUND wire.
 19. RED/WHITE - Apply 12VDC to this wire for outboard strobe power. Fuse at 15 amps.
 20. BLACK/ORANGE - This is the GROUND wire for inboard strobes.
 21. GREEN - Activates front outboard strobes. Fuse at 10 amps.
 22. GREEN/WHITE - Activates front inboard strobes. Fuse at 10 amps.
 23. GREY/WHITE - Activates rear outboard strobes. Fuse at 10 amps.

Rear Flashers
Pierce Alert
Front Flashers
Flashing Alley Lights

Piercer II
Flashing Take Downs
Lighted Sign & Cruise
CA Steady Burn Lights

LOW PRO CABLE (optional)

The Low Pro and Traffic Advisor cables are optional and may not be present on your particular lightbar. If these cables are present, refer to the instructional manuals for these options for wiring and operating information.

1. WHITE - Connect to POSITIVE siren terminal.
2. BLACK - Connect to NEGATIVE siren terminal.

TRAFFIC ADVISOR CABLE (optional)

This cable, if present, will plug into the rear of your Traffic Advisor control head.

943 Series Edge Lightbar

