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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.
- 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 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.
- If this product contains strobe light(s), halogen light(s) or high-intensity LED's, 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. Lens' 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!

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Mounting your Edge Lightbar

Refer to the Lightbar mounting guide included with your lightbar

Routing your Edge Lightbar Cable(s)

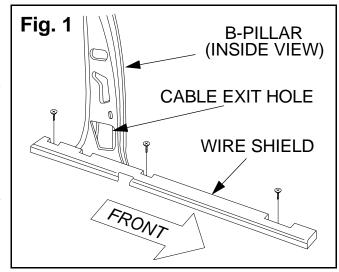
- To protect the headliner from damage caused by drilling the cable access hole through the vehicle roof, allow a 5" to 7" distance between roof and headliner by lowering the headliner before drilling.
- 2. Using a 1" hole saw, drill the cable access hole.

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.
- 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.

FRONT OF LIGHTBAR For lightbars with cables exiting the Driver-side of the extrusion Drill cable access hole in appropriate area for your lightbar (see note)



Connecting the power cable...

- 1. Open the wiring shield lid (Fig. 3) and route the power cable into the wiring shield and towards the firewall.
- 2. Follow the factory wiring harness through the firewall. It may be necessary to drill a hole in the firewall. If so, be absolutely sure that there are no components that could be damaged by drilling. After the hole has been drilled, insert a grommet to protect the cable.
- 3. Route the cable along the factory wiring harness towards the battery.
- 4. Install a 40 amp fuse block (customer supplied) on the end of the RED wire in the power cable.

NOTE: Remove the fuse from the fuse block before connecting any wires to the battery.

- 5. Insert the supplied mounting screws into these holes and tighten firmly. Repeat for passenger side of the vehicle.
- 6. Now firmly tighten the tension bolts to secure the Edge ULTRA to the vehicle.

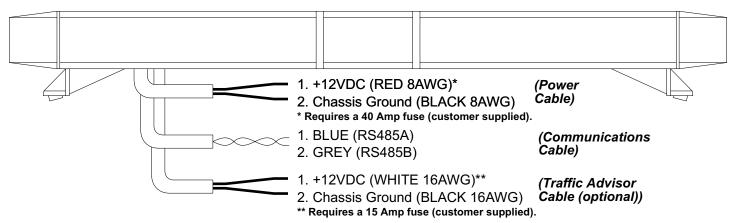
Connecting the communication cable...

With BL627 siren amplifier

- Route the communication cable into the wiring shield, along the factory wiring harness and into the trunk.
- 2. Route the communication cable towards the communication port on the BL627. Cut the communication wires to length.
- 3. Strip approximately 1/4" of insulation off both the BLUE and the GREY wires.
- 4. Insert these wires into the central communication port on the BL627.
- 5. Secure these wires with a small, flat-blade screwdriver.

Without BL627 siren amplifier

Splice the BLUE and GREY wires from the lightbar to the BLUE and GREY wires in the 4-conductor MPC01 cable.



Troubleshooting...

Your Edge ULTRA should now be fully operational. If your lightbar is not functioning properly, check your connections for the following:

- The positive wire (RED) is properly connected to the battery, by way of the user supplied fuse block.
- A working fuse of the correct amperage (40 amp) is installed in the fuse block.
- The ground wire (BLACK) is properly connected to the factory ground. Be sure that the wire is fully grounded to this location.
- The two communication wires (BLUE and GREY) are properly connected to their communication designations.

If all of these connections are good, contact your Whelen representative for further assistance.

Control of your lightbar is handled through the Multi-Purpose Controller. Although your MPC has been programmed to your specifications at the factory, be sure to familiarize yourself with its controls and their functions before initial field operation.