

# WHELEN<sup>®</sup>

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### Installation Guide: Power Relay Module Wiring Kit Continuum™ Off-Road Lighting System

#### Warnings to Installers

Whelen's off-road equipment 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. Potentially, this vehicle may be operated under high speed and/or stressful conditions which must be accounted for when installing any device. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Some devices may 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 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 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 (SRS) 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 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 device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF THIS DEVICE IS ESSENTIAL TO INSURE SAFETY.

#### Warnings to Users

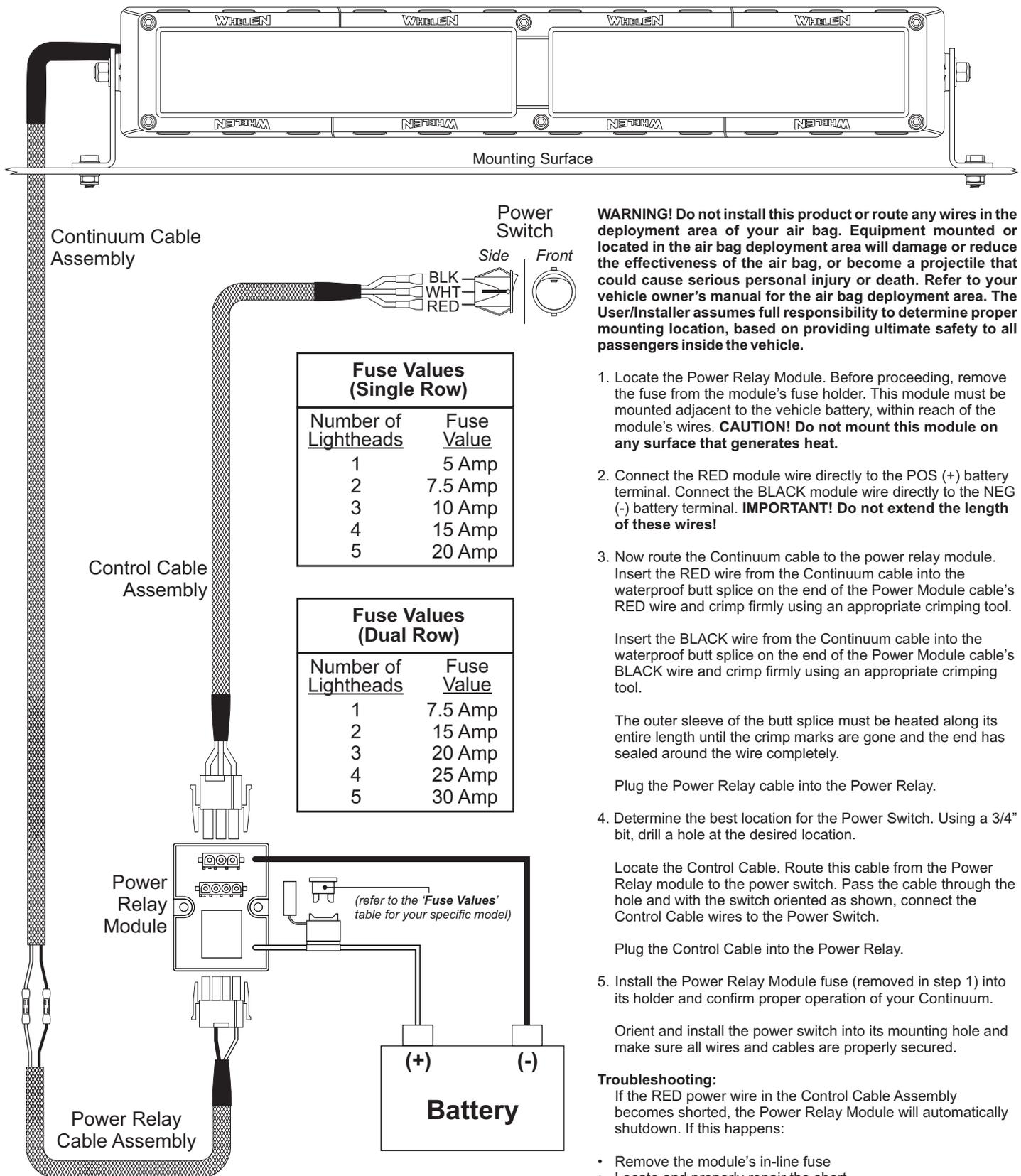
The user should be familiar with all applicable laws and regulations prior to the use of this device.

#### 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.
- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- 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, 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 (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 high-intensity LEDs. 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!

# Wiring



**WARNING!** 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.

1. Locate the Power Relay Module. Before proceeding, remove the fuse from the module's fuse holder. This module must be mounted adjacent to the vehicle battery, within reach of the module's wires. **CAUTION! Do not mount this module on any surface that generates heat.**
2. Connect the RED module wire directly to the POS (+) battery terminal. Connect the BLACK module wire directly to the NEG (-) battery terminal. **IMPORTANT! Do not extend the length of these wires!**
3. Now route the Continuum cable to the power relay module. Insert the RED wire from the Continuum cable into the waterproof butt splice on the end of the Power Module cable's RED wire and crimp firmly using an appropriate crimping tool.

Insert the BLACK wire from the Continuum cable into the waterproof butt splice on the end of the Power Module cable's BLACK wire and crimp firmly using an appropriate crimping tool.

The outer sleeve of the butt splice must be heated along its entire length until the crimp marks are gone and the end has sealed around the wire completely.

Plug the Power Relay cable into the Power Relay.

4. Determine the best location for the Power Switch. Using a 3/4" bit, drill a hole at the desired location.

Locate the Control Cable. Route this cable from the Power Relay module to the power switch. Pass the cable through the hole and with the switch oriented as shown, connect the Control Cable wires to the Power Switch.

Plug the Control Cable into the Power Relay.

5. Install the Power Relay Module fuse (removed in step 1) into its holder and confirm proper operation of your Continuum.

Orient and install the power switch into its mounting hole and make sure all wires and cables are properly secured.

### Troubleshooting:

If the RED power wire in the Control Cable Assembly becomes shorted, the Power Relay Module will automatically shutdown. If this happens:

- Remove the module's in-line fuse
- Locate and properly repair the short
- Reinstall the module fuse and confirm proper operation