

WHELEN[®]

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Installation Guide UHFPOS Headlight Flasher (Positive Switching)

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.

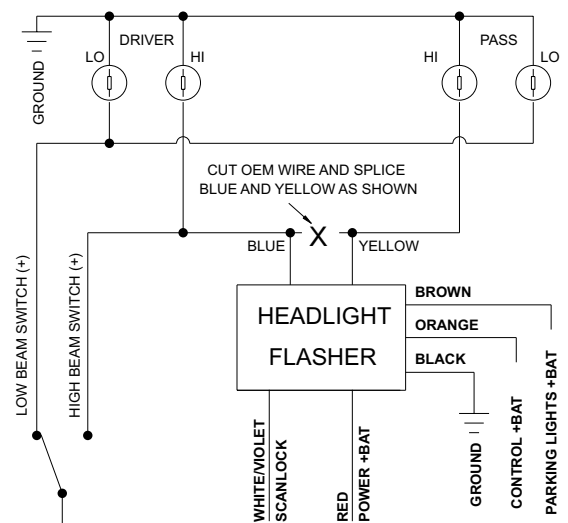
- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling 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.**
- **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

IMPORTANT NOTES!

- The use of a flashing headlight system may be regulated by state, county, or municipal authorities. It is the responsibility of the end user to comply with these regulations.
- It is the responsibility of the installer to make sure that the high beam and low beam filaments of a dual filament bulb never come on together. The excessive heat generated by this condition will melt the headlight assembly. The brown disable wire may have to be connected to the parking lights or the low beams to override the flasher and prevent both filaments from coming on simultaneously.
- The installation of a headlight flasher system requires a modification to the standard headlight wiring harness. This modification may effect the warranty of your vehicle. It is the responsibility of the end user to verify the warranty conditions with the vehicle manufacturer. Also, the use of a headlight flasher may shorten the high beam bulb life.
- Before attempting the installation of the UHFPOS headlight flasher, thoroughly read and understand instructions and steps shown below.
- Disconnect the battery from the electrical system before attempting any part of this installation.
- 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!

WIRING DIAGRAM



Installation

There are two different switching methods used to activate the headlight/parking lights in a motor vehicle; **Positive-Side** Switching and **Ground-Side** Switching. For example, the headlights may use Positive-Side switching, while the parking lights may use Ground-Side switching. **This product is designed for use only with POSITIVE-Side headlight switching!** Before installing this product, it will be necessary to contact the vehicle manufacturer to confirm that the vehicle in question uses Positive-Side switching.

1. Mount the UHFPOS in the engine compartment near the battery and headlights. DO NOT mount the unit directly on the engine or close to the exhaust system.
2. Connect the UHFPOS wires to the vehicle as outlined here.
 - BLACK -** Connect to the vehicle's chassis ground.
 - BROWN -** Connect this wire to the parking light or low beam circuit to disable the flasher when headlights are on. This is to prevent both filament in a dual filament bulb from being on simultaneously (or if required in your jurisdiction).
 - BLUE -** Connect to the end of the cut wire from the driver-side high beam headlight (see wiring diagram). This BLUE wire may be extended using 14 AWG wire.
 - YELLOW -** Connect to the end of the cut wire from the passenger-side high beam headlight (see wiring diagram). This YELLOW wire may be extended using 14 AWG wire.
 - ORANGE -** Connect to a +12VDC power switch (200 mA MIN./customer supplied).
 - RED -** Connect, fused at 15 Amps (customer supplied) to the POS (+) battery terminal.
 - WHT/VIO -** Tape off wire when not changing flash patterns.
3. Test the flasher for proper operation

Flashrate Selection

There are 7 available flashrates for the UHFPOS. These rates are determined by the Scan-Lock™ wire (WHT/VIO). With the lights on and the flasher engaged:

To advance to the next flashrate, apply +12VDC to the WHT/VIO wire for less than 1 second. **To cycle to the previous flashrate**, apply +12VDC for more than 1 second.

After the desired flashrate has been selected, be sure to insulate the exposed portion of the ScanLock™ wire.

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

Flashrate List

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| 1. ModuFlash™ | 5. SingleFlash 140 / DoubleFlash 75 (Sim) |
| 2. SingleFlash 280 (Alt) | 6. SingleFlash 90 (Alt) |
| 3. DoubleFlash 140 / SingleFlash 140 (Sim) | 7. SingleFlash 140 (Alt) |
| 4. DoubleFlash 140 / SingleFlash 280 | Alt = Alternating Sim = Simultaneous |