

WHELEN[®]

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Installation Guide: 2-color / 4-wire PAR-46 LED Lighthead

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.**
- **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 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

Installation:

1. Drill a 3/8" mounting hole and insert the mounting bolt through the mounting bracket and into the mounting hole.
2. Secure the mounting bracket with the supplied elastic stop nut and flat washer as shown.
3. Extend the RED wire to a switched 12V power source (fuse @ 5 amp). Extend the BLACK wire to chassis ground.

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 that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

Caution: Permanent mounting of this product requires drilling. Make sure that no other vehicle components could be damaged by this process. Check both sides of the mounting surface before starting. If damage is likely, select a different mounting location.

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

Wiring:

See diagram below for wiring information.

Operation:

Spot Light (White LEDs): Apply +12VDC to the WHT wire. In this mode, no flash patterns are available.

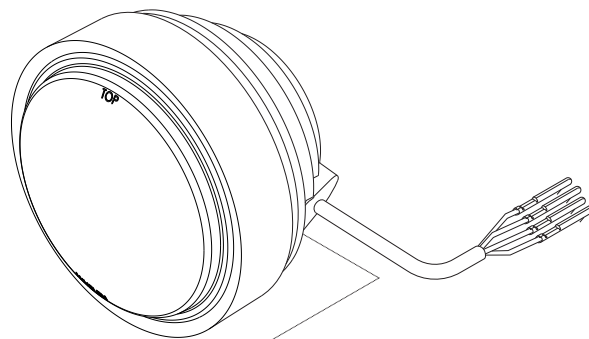
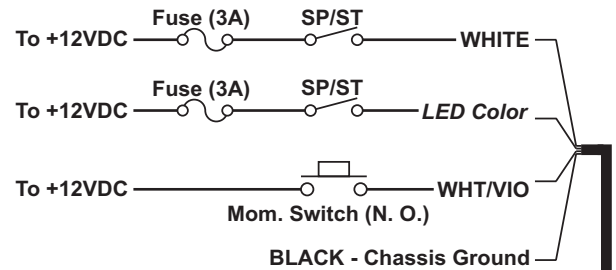
Warning Light (colored LEDs): Apply +12VDC to the LED colored wire. In this mode, all the flash patterns in the table shown are available.

NOTE: Spot Light mode overrides Warning Light mode.

To advance through the patterns, activate the warning light and apply +12VDC to the WHT/VIO wire for less than 1 second. To cycle backwards, apply +12VDC to the WHT/VIO wire for more than 1 second.

#	Pattern
1.	SignalAlert™ 75
2.	CometFlash® 75
3.	DoubleFlash 75
4.	SingleFlash 75
5.	ComAlert™ 75
6.	LongBurst™ 75
7.	PingPong™ 75
8.	SingleFlash 60
9.	SingleFlash 90
10.	SingleFlash 120
11.	SingleFlash 300
12.	DoubleFlash 150
13.	ComAlert 150
14.	ActionFlash™ 50
15.	ActionFlash 150
16.	ModuFlash™
17.	DoubleFlash 120
18.	PingPong 120
19.	TrippleFlash™ 75
20.	TrippleFlash 150
21.	Sig-Alert Cal
22.	Action/SingleFlash I
23.	Action/SingleFlash II
24.	CalScan™
25.	ActionScan™
26.	Steady

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



- 5/16" Elastic Stop Nut
- 5/16-18 x 1 1/4 Carriage Bolt
- 5/16-18 x 2 1/4 Hex Head Bolt
- 5/16" Flat Washer
- 5/16" Elastic Stop Nut

