

WHELEN[®]

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Installation Guide: 700 Series Super-LED[®] Lighthouse

Safety First

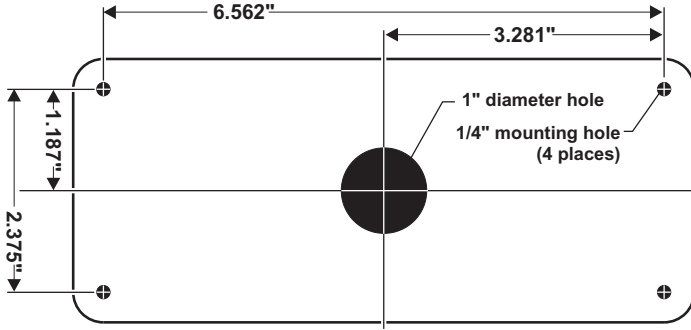
This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained 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 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.**
- **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

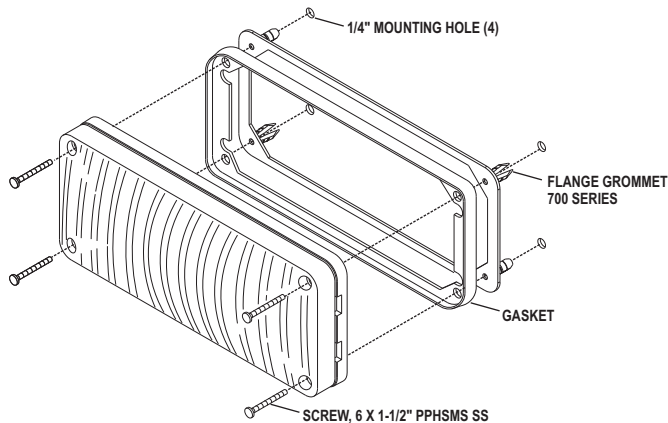
Installation:

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!



Caution: Permanent mounting of this product will require drilling. It is absolutely necessary to 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.

- Using the dimensions shown, mark off and drill the four 1/4" diameter mounting holes and the 1" wire hole into the mounting surface. Check measurements before drilling.
- Install the flange grommet into the mounting holes then install a rubber grommet (customer supplied) into the wire hole.
- Using appropriately sized wires (minimum 18 AWG wire), extend the lighthouse wires to their appropriate connections. Fuse the positive connections at 3 Amps and test operation of lighthouse before securing it to vehicle.



SYNC Pattern Table:

Sync-Capable Flash Patterns:

- SignalAlert™ 75 - Phase 1
- SignalAlert 75 - Phase 2
- CometFlash® 75 - Phase 1
- CometFlash 75 - Phase 2
- DoubleFlash 75 - Phase 1

- DoubleFlash 75 - Phase 2
- SingleFlash 75 - Phase 1
- SingleFlash 75 - Phase 2
- ComAlert™ 75 - Phase 1
- ComAlert 75 - Phase 2
- LongBurst™ 75 - Phase 1

Split Pattern Table:

- SignalAlert™ 75 - ALT
- SignalAlert 75 - SIM
- CometFlash 75 - ALT
- CometFlash 75 - ALT*
- DoubleFlash 75 - ALT*
- DoubleFlash 75 - SIM*
- SingleFlash 75 - ALT*
- SingleFlash 75 - SIM*
- ComAlert™ 75 - ALT
- ComAlert 75 - SIM
- LongBurst™ 75 - ALT
- LongBurst 75 - SIM
- PingPong™ 75 - ALT*

- PingPong 75 - SIM*
- SSNF 75
- SingleFlash 60 - ALT
- SingleFlash 60 - SIM
- SingleFlash 90 - ALT*
- SingleFlash 90 - SIM*
- SingleFlash 120 - ALT*
- SingleFlash 120 - SIM*
- SingleFlash 300 - ALT
- SingleFlash 300 - SIM
- DoubleFlash 150 - ALT
- DoubleFlash 150 - SIM
- ComAlert™ 150 - ALT

Standard Pattern Table:

- SignalAlert™ 75
- SignalAlert150
- SingleFlash 375

- SingleFlash 150
- SingleFlash 75*
- DoubleFlash 150

- LongBurst 75 - Phase 2
- PingPong™ 75 - Phase 1
- PingPong 75 - Phase 2

Non-Sync Flash Patterns:

- SingleFlash 60*
- SingleFlash 90*
- ComAlert 150 - SIM
- ActionFlash™ - ALT 50
- ActionFlash™ - SIM 50
- ActionFlash™ - SIM 150
- ActionFlash™ - SIM 150
- ModuFlash™ - ALT
- ModuFlash™ - SIM
- DoubleFlash - ALT 120*
- DoubleFlash - SIM 120*
- SingleFlash 300 - ALT
- PingPong™ - ALT 120*
- PingPong™ - SIM 120*
- TripleFlash™ - ALT 75*
- TripleFlash™ - SIM 75*

- SingleFlash 120*
- SingleFlash 300
- DoubleFlash 150
- ComAlert 150
- ActionFlash™ 50
- ActionFlash 150

- ModuFlash™
- ActionScan™
- Steady

* = California Title XIII compliant

- CalScan™ - SIM*
- ActionScan™ - ALT
- ActionScan™ - SIM
- SteadyFlash 60*
- SteadyFlash 75*
- SteadyFlash 90*
- SteadyFlash 120*
- SteadyFlash & SteadyFlash*

* = California Title XIII compliant

- DoubleFlash 75*
- CometFlash® 75
- ActionFlash

- ModuFlash
- ComAlert
- ActionScan

- SignalAlert
- Steady
- ActionScan

* = California Title XIII compliant

- Position the lighthouse onto the mounting surface and secure to the vehicle using the four supplied #6 x 1-1/2" sheet metal screws.

Wiring:

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!**

The 700 Series lighthouse offers the user various features depending on the model. Refer to the next page for wire designations and replacement parts.

Scan-Lock™ (White/Violet):

Note that the lighthouse must be on to use the Scan-Lock™ feature except where noted.

To advance to the next flash pattern - Apply +12VDC to the WHT/VIO wire for less than 1 second and release.

To cycle backwards through the flash patterns - Apply +12VDC to the WHT/VIO wire for more than 1 second and release.

To reset to the factory default flash pattern - Turn off power to the lighthouse. While applying +12VDC to the WHT/VIO wire, turn power to the lighthouse on. Continue to apply voltage to the WHT/VIO wire for 5 seconds. The default pattern will now be active.

NOTE: A Normally Open momentary switch is suggested to activate the Scan-Lock™ wire.

SYNC (Grey) - To SYNC two lighthouses, configure both lighthouses to display the same Phase 1 pattern. With the power off, connect the Grey wires from each lighthouse. When the lighthouses are activated, their patterns will be synchronized. To configure the two lighthouses to alternate their patterns, advance the pattern of either lighthouse to the Phase 2 mode of the current pattern. **Remember, Phase 1 patterns ALWAYS alternate with Phase 2 patterns!**

Hi/Low Intensity (Violet) - This feature allows the user to step the unit down to low power operation for nighttime use. Apply positive voltage to the VIOLET wire to put the lighthouse into low power. Remove the voltage from the VIOLET wire to restore normal high power operation.

The table below provides wiring information for the 700 Series lighthouse. Refer to the appropriate flash pattern list as determined by the lighthouse style:

WARNING! The LED models designated "Steady" must be connected to an electronic flasher. Allowing the LED to steady burn will damage the lighthouse and void the warranty. This product draws significantly less current than a standard incandescent automotive bulb. If your flasher does not operate properly, it may be necessary to replace your existing flasher module with a Whelen 3TERM flasher module. Contact your sales representative for specific vehicle application.

IMPORTANT WARNING!

CAUTION! DO NOT LOOK DIRECTLY AT THESE LED'S WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

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

