

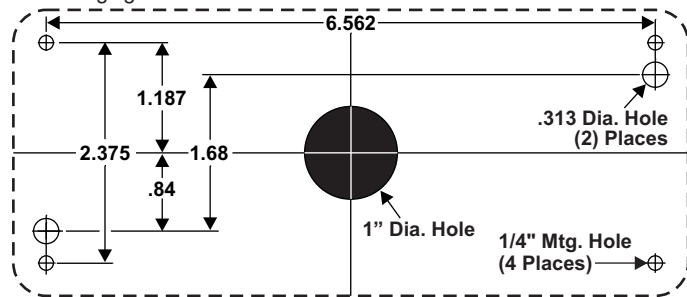
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Safety First: This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- 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. De-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- 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 the 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.
- 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!**
- FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

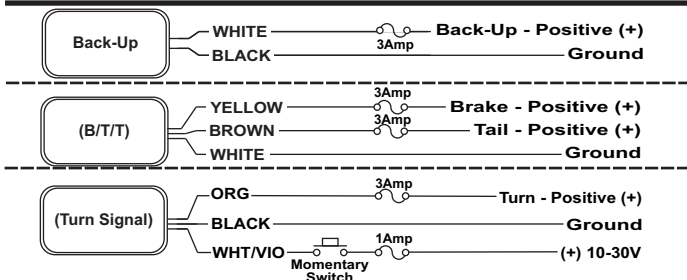
Installation:
IMPORTANT NOTICE! This product has been designed for improved visibility. Prior to installing this product on any vehicle, check you state motor vehicle codes to confirm that this product complies with any and all state statutes

- Using the dimensions shown, drill two, 5/16" diameter vent tube holes and a 1" wire hole into the mounting surface.
- Place the lighthead into position and mark off the 4 mounting holes. Using a 1/4" drill bit, drill the 4 mounting holes. Install a grommet (customer supplied) into the 1" wire hole.
- Using appropriately sized wires (Min. 18 AWG), extend the wires to their connections. Fuse the (+) 10-30V connections at 3 Amps and test the lighthead for proper operation. Secure the lighthead to the vehicle using the flange grommet and the four #6 x 1-1/2" sheet metal screws.



WIRING DIAGRAM

IMPORTANT! Ensure that Back-Up, B/T/T and Turn Signal Lightheads are fused at 3 AMPS either through OEM fusing or customer supplied fuse.



IMPORTANT WARNING!

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

Wiring:

Back-Up Model

Connect WHT wire to (+) 10-30V output wire of the back-up light circuit. Connect BLK wire to GROUND.

B/T/T Model

Connect YEL wire to (+) 10-30V output wire of brake light circuit. Connect BRN wire to (+) 10-30V output wire of the taillight circuit. Connect WHT wire to GROUND.

Turn Signal Model

Connect ORG wire to (+)10-30V output wire of the turn signal circuit. Connect BLK wire to GROUND. Connect WHT/VIO wire to to a momentary switch and extend the wire to (+)10-30V. Fuse wire @ 1 Amp.

TURN SIGNAL Model

- | | | |
|--------------------------------|---------------------------------------|---------------------------------------|
| 1. Steady On (Arrow) | 6. Flashing Arrow (120 FPM) | 9. Sequence to Solid (Fast) Steady On |
| 2. Sequence (80 FPM) to Solid | 7. Flashing Solid (120 FPM) | 10. Steady On (Solid) |
| 3. Flashing Arrow (80 FPM) | | |
| 4. Flashing Solid (80 FPM) | 8. Sequence to Solid (Slow) Steady On | |
| 5. Sequence (120 FPM) to Solid | | |

WHITE/VIO - ScanLock™ Pattern Selection: This feature allows the user to select from several available flash patterns. Lighthead must be powered on for Scan-Lock to work.

TO CYCLE THROUGH ALL PATTERNS: Apply (+) 10-30V to the WHT/ VIO wire for less than 1 second and release. To cycle backward, apply (+) 10-30V to the WHT/VIO wire for over 1 second and release.

TO SET A PATTERN AS DEFAULT: Allow the pattern to run for more than 5 seconds. The lighthead will now display this pattern when active.

TO RESET TO THE FACTORY DEFAULT PATTERN: Turn off power. While applying (+) 10-30V to the WHT/VIO wire, turn power on. The lighthead will reset to its default pattern.

B/T/T 3 POS DEUTSCH SOCKET

- POS. A - BROWN
- POS. B - YELLOW
- POS. C - WHITE
- AMP 3 POS PIN**
- POS 1 - BROWN
- POS 2 - YELLOW
- POS 3 - WHITE

BACK-UP 3 POS DEUTSCH SOCKET

- POS. A - WHITE
- POS. B - N/C
- POS. C - BLACK
- AMP 3 POS PIN**
- POS 1 - WHITE
- POS 2 - N/C
- POS 3 - BLACK

TURN SIGNAL 3 POS DEUTSCH SOCKET

- POS. A - ORANGE
- POS. B - N/C
- POS. C - BLACK
- CAP - WHT/VIO
- AMP 3 POS PIN**
- POS 1 - ORANGE
- POS 2 - N/C
- POS 3 - BLACK
- CAP - WHT/VIO