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Safety First: This document provides all the necessary information to allow your Whelen product to be properly and safely installed 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.

Before beginning the installation information is contained herein that could

- 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.
- 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. 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.
- 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.
- **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!**

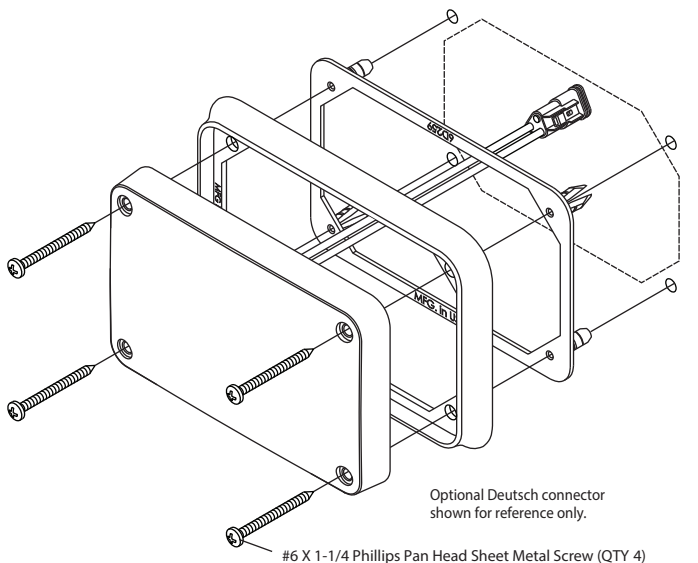
NOTICE! Prior to installing on any vehicle, check your state motor vehicle codes to confirm that this product complies with any and all state statutes.

Installation: Refer to the diagrams shown for mounting measurements.

1. Using the mounting diagram shown, mark the locations for the mounting holes and the wire passage hole. Using a .250" (.635 cm) drill bit, drill 4 mounting holes.
2. Insert the screw grommet flange into the mounting holes as shown.
3. Units with the optional Deutsch connectors will be plugged into existing harnesses. Confirm all wiring prior to plugging the connectors into the harness.

Units without any connectors are wired as follows. Using appropriately sized wire extend the lighthead wires through the gasket and wire passage hole. Make the appropriate connections (see wiring diagram) and confirm proper operation of the light.

4. Combine the lighthead and trim flange in the order shown. While holding these components together, place this assembly onto the screw grommet flange.
5. Hold the components firmly against the mounting surface and secure to the mounting surface using the hardware provided.



TURN/CLEARANCE 3 POS DEUTSCH SOCKET	B/T/T 3 POS DEUTSCH SOCKET	BACKUP 3 POS DEUTSCH SOCKET
POS. A - BROWN	POS. A - BROWN	POS. A - WHITE
POS. B - YELLOW	POS. B - YELLOW	POS. B - N/C
POS. C - WHITE	POS. C - WHITE	POS. C - BLACK
AMP 3 POS PIN	AMP 3 POS PIN	AMP 3 POS PIN
POS 1 - BROWN	POS 1 - BROWN	POS 1 - WHITE
POS 2 - YELLOW	POS 2 - YELLOW	POS 2 - N/C
POS 3 - WHITE	POS 3 - WHITE	POS 3 - BLACK

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/Clearance

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

