

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,  
Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: [www.whelen.com](http://www.whelen.com)

Sales e-mail: [autosale@whelen.com](mailto:autosale@whelen.com)

Canadian Sales e-mail: [autocan@whelen.com](mailto:autocan@whelen.com)

Customer Service e-mail: [custserv@whelen.com](mailto:custserv@whelen.com)

## Installation Guide AMP Water-Proof Connector

### 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 the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this product is mounted with 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 owners 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.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, do not stare directly into these lights at a close distance. Momentary blindness and/or eye damage could result.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, use only soap and water to clean the lamp 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!**

## Important!!!

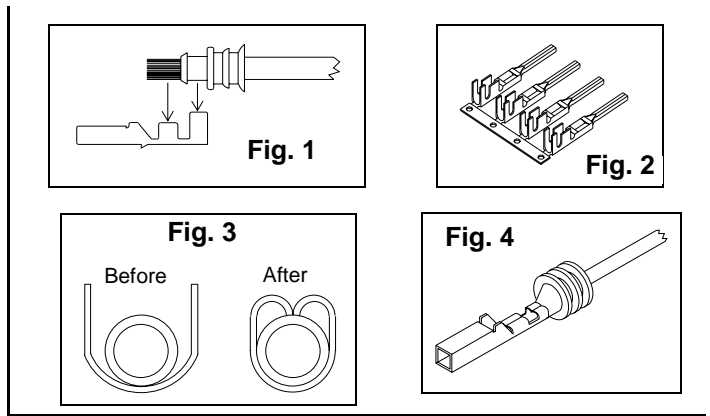
The AMP water-proof connector will not function properly unless it is connected exactly as the manufacturer intended. Wires coming from the lamp **MUST** be connected to the Female Housing; **NOT** the Male Housing. Refer to Diagram 1 for an overview of all related components.

## Tools Required...

AMP Crimping Tool (strongly recommended)

## Installation...

1. Select appropriate wire seal. This is determined by test-fitting a seal onto the wire being used and inserting the wire/seal into the connector. The fit should be snug and the seal should be flush with the connector and should not be distorted. Repeat test for all wires being used.
2. Strip approx. 3/16" of insulation off of each of the wires. Make sure that each wire has its seal facing the right direction (Fig. 1).
3. Two types of wire terminals are required for installation; Socket-type and Pin-type. The Socket-type is used in the Female housing, while the Pin-type goes in the Male housing. Remove the terminals from metal strip (Fig. 2). Position the wire/seal in the terminal's cradle (Fig. 1). Using the crimping tool, firmly crimp the tall cradle over the seal (Fig. 3). Now crimp the shorter cradle over the exposed wire. Pinned wire should resemble the illustration in Fig. 4. Repeat for remaining wires.
4. Insert the wires with the socket terminals into the Female connector housing. Be sure that the terminal's are positioned as shown in Diagram 1 (cradle side up). A



- gentle pull on the inserted wires will determine if they have been inserted fully and properly (wires should not pull out of connector).
5. Now the Locking Plate (Fig. 5) is engaged by pressing up 5 degrees and then pressing inward towards the connector.
6. As shown in the example in Fig. 6, both connectors use numbers to indicate that the wire in Female connector port 1 will connect to the wire in Male connector port 1. Be aware of this while you repeat step 4 using the Male connector.
7. Before connecting the Female housing to the Male housing, double check that all wires are in their correct ports and are inserted properly. Insert the Female connector into the Male connector. Press both connectors together until the connector gasket is fully inserted into the Male connector and the locking hasp has been fully engaged. The connection is now both complete and water-proof.

