

# WHELEN<sup>®</sup>

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## Assembly/Disassembly Deutsch Water-Proof Connectors W441D (Receptacle) W442D (Plug)

### Important!!!

The Deutsch water-proof connector will not function properly unless it is connected exactly as the manufacturer intended. A Deutsch crimping tool (Whelen p/n 66T0516435119C) is required for proper terminal crimping and should be used whenever possible. If a non-Deutsch crimp tool is used, the cable wires must first be pushed through the rubber connector grommet BEFORE the pin terminal is crimped. This will reduce the possibility of damaging the water-tight seal around the wires. Whelen Engineering does not recognize the use of a non-Deutsch crimping tool, therefore any resulting damage would void the warranty.

Wires coming from the lamp **MUST** be connected to the plug housing; **NOT** the receptacle housing. Refer to Diagram 1 for an overview of all related components.

If your current lighting system utilizes an AMP water-proof connector, it will be necessary to remove the AMP assembly from the supply cable. The wire ends must then be stripped so that the correct "barrel"-style pins can be attached using the Deutsch crimping tool. The Deutsch receptacle can then be attached to the cable as outlined in the following "Assembly" section. Be sure to insert the wires into the receptacle so that they will connect with the correct plug wire. Example: The wire in receptacle section A is the wire that is designated to be connected to the wire in plug section A.

2. Locate the leads that have the "barrel"-style pins crimped onto the wires.
3. Grasp the wire approximately 1 inch behind the contact barrel.
4. Hold the receptacle so that the rear grommet is facing you.
5. Push the pin straight into the grommet until a "click" is felt. A gentle tug will confirm that it is properly locked into place.
6. Once all the pins are installed, insert the wedge into the receptacle. Be sure that the arrow on the wedge is pointing towards the exterior locking housing. If the wedge being used is rectangular, the arrow alignment does not apply.

**NOTE:** Although the above text outlines the procedure for assembling the receptacle, the same procedure is used for the Plug section. The plug section utilizes a faceplate instead of a wedge. It can be removed with a small screwdriver.

### Contact Removal...

1. Remove the wedge with either a pair of needle nose pliers (if removing contacts from the receptacle section) or a small, regular screwdriver (for the faceplate of the plug section).
2. To remove the contacts, gently pull the desired wire back away from the grommet. At the same time, release the locking finger by moving it away from the contact with a screwdriver.
3. Be sure to hold the rear seal in place, as removing the contact will disrupt its position.

### Assembly...

1. Locate the cable that will be used between the power supply and the receptacle section of the water-proof connector.

