

# INSTALLATION INSTRUCTIONS

## ⚠ WARNING

To properly install this light you should have a good understanding of automotive electrical procedures and systems, and proficiency in the installation of lights. **IF YOU DO NOT, PLEASE SEEK PROFESSIONAL ASSISTANCE.**

### BEFORE INSTALLATION:

<b>Estimated Time:</b>	15-30 minutes
<b>Tools Needed:</b>	Socket wrench with 10mm socket 1/8" wrench
<b>Wire Functions:</b>	Black = Ground Red = Power
<b>In the Box:</b>	(x2) Model 95 High Beam Lights <b>OR</b> (x2) Model 95 Fog Lights
<b>Input Voltage:</b>	12-24V DC
<b>Operating Voltage:</b>	9-32V DC

### PRE-INSTALLATION INSTRUCTIONS:

1. Read all safety notes and mounting guidelines before installing the product. Verify that all parts listed under "In the Box" are present and complete.
2. Inspect the product for damage. DO NOT install the product if there is any damage. Contact the authorized retailer where you purchased it to initiate a warranty claim if there is damage.
3. Verify that all power supply and/or charging systems comply to the specified voltage limits for the light.

### NOTE:

The mounting for both lights in your kit will be identical. Either light can be installed on either side of the vehicle.

### REGULATORY COMPLIANCE:



### PRODUCT WARRANTY:

If you have issues with a J.W. Speaker product, please contact the authorized retailer where you purchased it.

### INSTALLATION INSTRUCTIONS:

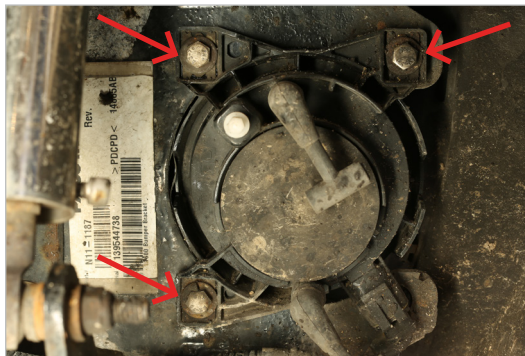
1. Lift and secure the hood. The lights are accessed and installed from behind the bumper.



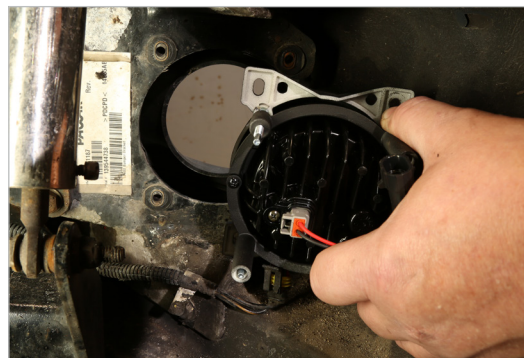
2. Disengage the locking tab on the connector to remove it from the factory light.



3. Using a 10mm socket, remove and retain the three 6mm mounting bolts.



4. Install the J.W. Speaker driving or fog light using the 6mm bolts previously removed. The bolt configuration will assure proper orientation.



5. Plug in the connector, making sure the locking tab engages.



## STOP. IMPORTANT NOTE:

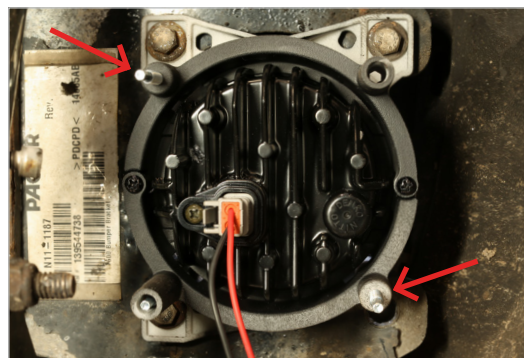
With incandescent bulbs, +/- is irrelevant, but proper polarity is required with LEDs and polarity can vary between vehicles.

Before installing the new lights, plug each into the vehicle to verify proper polarity. If the lights do not initially operate, reverse the wires on the connectors. Test the lights again to make sure they now work properly.

## AIMING NOTES:

**NOTE: Properly aimed fog lights will optimize performance of a SAE/ECE-compliant beam pattern.**

1. There are two ball studs on the back of the light. The top left stud is used for vertical aiming; the bottom right for horizontal (shown to the right).
2. DO NOT turn the ball studs to the point where they pull the lamp into the housing. The clearance is intentional and will not affect the beam pattern. Additionally, this will have the effect of improperly aiming the lamp and could over-stress the mounting tabs/bracket, **leading potentially to premature tab failure**. As a result, this failure mode would NOT be warranted as it is considered misuse/abuse.
3. To aim the **HIGH BEAM LIGHTS**, follow the High Beam Only Headlights aiming instructions found at [www.jwspeaker.com/instructions](http://www.jwspeaker.com/instructions).
4. To aim the **FOG LIGHTS**, follow the instructions below.



## FOG LIGHT AIMING INSTRUCTIONS:

**Note: Horizontal alignment should not be necessary.**

1. **Park the vehicle on a level surface** 20 feet back from a wall, garage door or any vertical surface.
2. Measure the distance from the ground to the center of the fog light on the vehicle.
3. Turn on the lights and measure the distance from the ground to the top of the beam pattern. At 20 feet, the top of the fog beam pattern should be approximately four inches lower than the height of the center of the fog light.

4. If vertical adjustment is needed, use a 1/8" wrench to turn the top left ball stud until the proper height is achieved.
5. Adjust the beam height of the second lamp to match.