

9" Round LED Headlight for Jeep Wrangler JL/JT

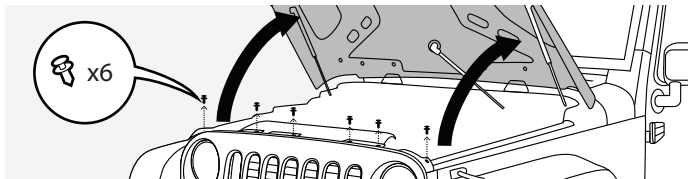
Manual ID: PIM-00000181-V005

IMPORTANT: READ CAREFULLY BEFORE ASSEMBLY AND USE.

- Installer of this product must have a good understanding of automotive electronics, systems, and procedures.
- Whether it is replacing the headlight low beam, headlight high beam, fog lights, or taillights, always refer to the vehicle's owner's manual for detailed instruction on how such lights can be replaced. The instructions listed in this guide serves as a general reference and the steps detailed may not apply to your specific vehicle's make and model. Seek professional assistance when in doubt.
- When working with electricity make sure all relevant safety procedures are followed. Always turn the key off and disconnect the battery before working on vehicle electronics, neglecting to do so may result in bodily harm and damage to sensitive electronic components. Never cut or splice a wire without first consulting a vehicle specific manual and using a digital multimeter (DMM) to verify the identity and purpose of the wire.
- This product contains strobe light(s), halogen light(s), high-intensity LEDs, or a combination of these components. Do not look directly into the lights. Momentary blindness and/or injury to the eyes could result.
- 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 attempt to activate or control this device in a hazardous driving situation.
- The installer or user must make sure the intended mounting location and application of the product conform to the law set forth by the federal, state, or local agency.

Installation:

Step 1: Remove the Grille Assembly



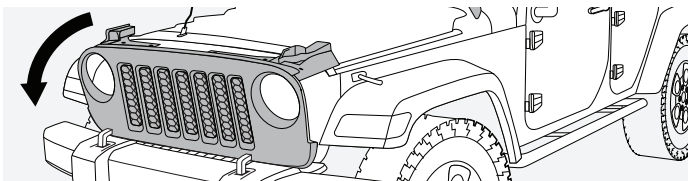
1.1 Open the hood.

TIP: In many newer Jeeps the hood can be opened completely and laid against the windshield making it much easier to work under the hood. When doing this always make sure any finished surfaces are protected to avoid damage.

1.2 Locate the six black plastic rivets along the top facing edge of the grille.

1.3 Remove all six rivets by using a flat head screwdriver to pry up on and remove the center section followed by the body of each rivet.

TIP: The center portion of the rivet does not have to come completely out to be able to remove the entire rivet. The center portion can be easily reassembled when reinstalling if removed completely.

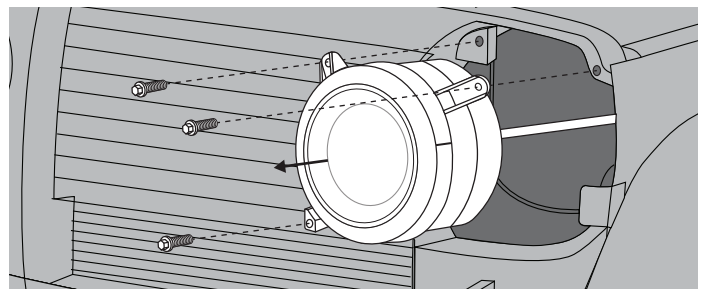


1.4 Grab hold of either side of the grille close to the base and pull it away from the vehicle with a firm tug.

TIP: A towel may be placed between the grille assembly and the bumper to help prevent damage to the grill.

1.5 Remove the grille from the vehicle and place in a safe location.

Step 2: Remove the Headlight Assembly



2.1 Using a 10mm socket, remove the three fasteners holding headlight assembly in place.

2.2 Depress the locking tab and disconnect the wiring connector from the back of the headlight.

2.3 Remove the headlight.

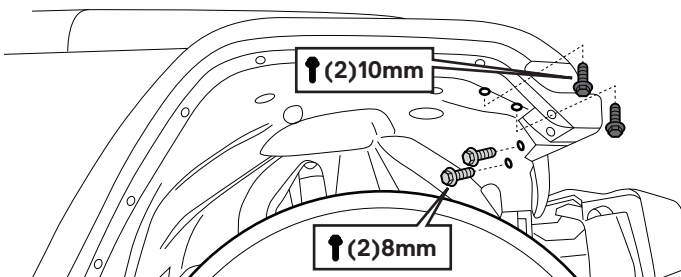
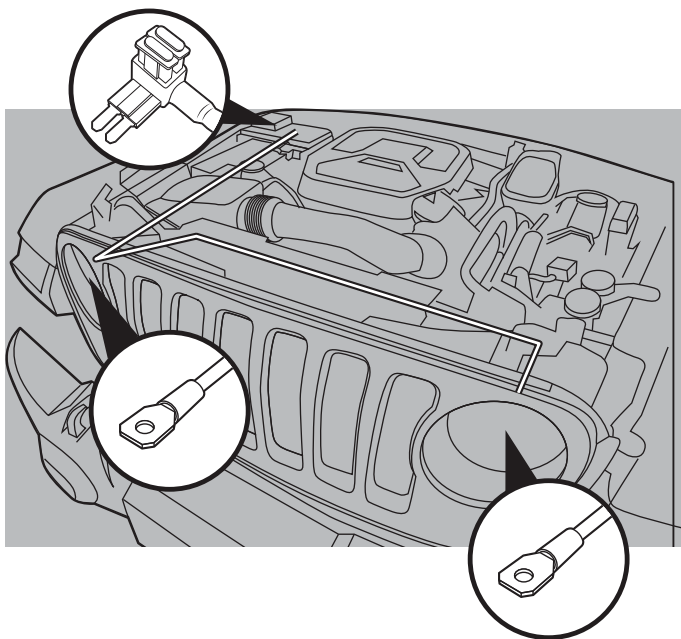
Step 3: Install the New LED Headlight Assembly

3.1 If applicable, install the DRL (daytime running lights) adapter harness.

NOTE: The included DRL adapter harness with fuse tap should be plugged into an ACC power fuse so that the DRLs only come on when the key is on. Fuse slot F52 is a good option for this purpose. Slot F52 contains a yellow 20A fuse. This fuse is to be removed and replaced with the included fuse tap wiring harness. Route the wire of the DRL adapter harness from the fuse box to the passenger's headlight then over the top of the radiator under the radiator cover to the driver's side headlight. Be sure to secure the wire to the frame using zip ties.

3.2 If applicable, use the included T-tap connector and turn signal wire lead to provide power to the turn signal connector on the headlight from the factory turn signal circuit.

NOTE: The turn signal bulb/connector can be accessed by removing the two 8mm screws and two 10mm screws from the fender wheel well liner as pictured below. The liner can then be pried away from the fender using a trim removal tool, a flat head screwdriver, or a tool of similar shape. The turn signal wiring lead can then be fed into the engine bay to be connected to the the headlight through the opening behind the frame under the fender. Perform this step for both the driver's side and passenger's side headlight and secure and excess wiring with zip ties or wire fastener of choice. Lastly, the turn signal wire for most models would be a WHITE wire with GREEN tracer. It is best to identify the turn signal power wire using a digital multimeter.



- 3.3 Plug the stock connector into the headlight plug.
NOTE: The headlights are right and left specific.

- 3.4 Place the headlight against the mounting surface making sure that the alignment dowels fit into the alignment holes of the headlight.

- 3.5 Reinstall the three 10mm fasteners and tighten.

- 3.6 Test the functions of the headlights.

Step 4: Replace the Grille

- 4.1 Line the bottom of the grille up against the front of the vehicle making sure the metal retaining clips line up with their respective holes.
- 4.2 Push firmly but carefully on the bottom of the grille so that all of the clips seat in their holes.
- 4.3 Put all six plastic rivets back into the top of the grille.

Removing Moisture from Headlights:

Each headlight comes equipped with two vented ports for the passive removal of moisture during normal operation. However, in some situations, excessive moisture can build up in headlight and collect as condensation on the inside of the headlight lens.

To quickly remove this condensation:

1. Remove the two vented caps from the back of the headlight.
2. Turn on the headlights.
3. Leave the headlights on and allow them to warm up for about 15 minutes.
4. Once the condensation has evaporated replace the two vented caps.

Wire Routing:

- Always route wiring away from moving parts and pinch points.
- Never use more wire than necessary. Leave slack for movement but avoid excess wiring. Not only does it look bad but it also increases the risk of damage.
- Never leave wires hanging. Use zip ties or another method to secure wires to a non-moving part of the vehicle or an existing wiring harness.
- If at all possible use wire loom to protect wires from chafing.

Specifications:

Input Voltage: 12V DC
 Input Current: 4A MAX @ 12V DC