

**Part Number: PT413-42190, PT413-42191**

**Kit Contents**

Item #	Quantity Req.	Description
1	1	Fog Lamp, Chrome, Left
2	1	Fog Lamp, Chrome, Right
3		

**Hardware Bag Contents**

Item #	Quantity Req.	Description
1		
2		
3		

**Additional Items Required For Installation**

Item #	Quantity Req.	Description
1		
2		
3		

**Conflicts**

None
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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
<b>Special Tools</b>	<b>Notes</b>
<b>Installation Tools</b>	<b>Notes</b>
#2 Phillips Screwdriver	3" long
10mm Socket	Standard length
1/4" drive extension	1-1/2"
1/4" drive ratchet	
Small NRT	
<b>Special Chemicals</b>	<b>Notes</b>

**General Applicability**

MY19 and newer 4Runner models
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**Recommended Sequence of Application**







Item #	Accessory
1	
2	
3	

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

Item #	Quantity Req.	Description
1		
2		
3		

**Legend**

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in Figures calls out the specific tools and equipment recommended for this process.
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.
	<b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.



These guidelines can be found in the "Accessory Installation Practices" document.


This document covers such items as:-

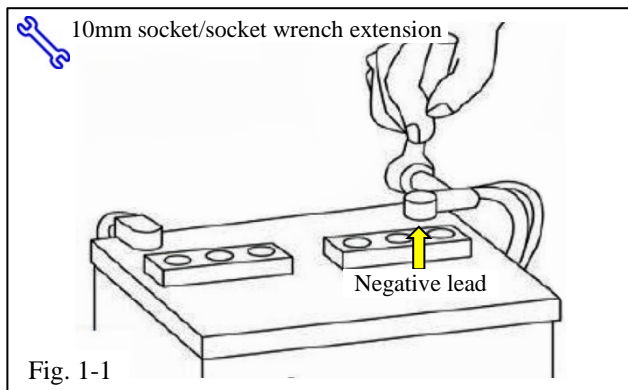
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

**1. Prepare the vehicle.**

-  (a) Protect the fender before starting.
-  (b) The engine components and coolant may be hot.
- (c) Check the kit for contents and any damage.
- (d) Remove the battery cable from the negative terminal (Fig. 1-1)

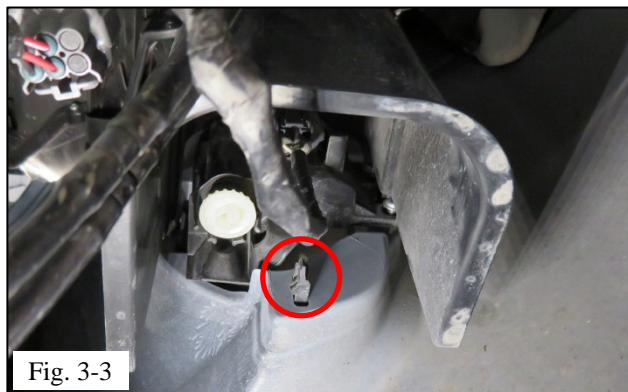
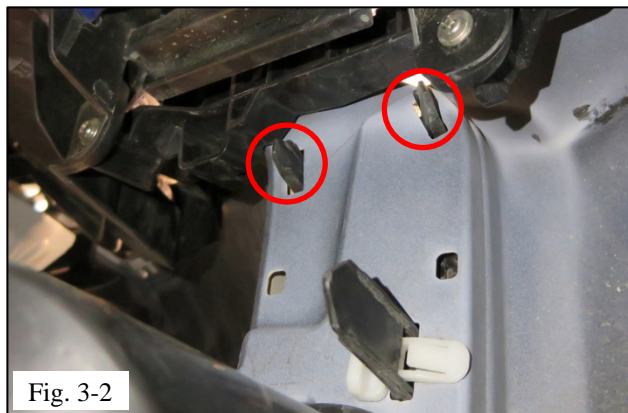
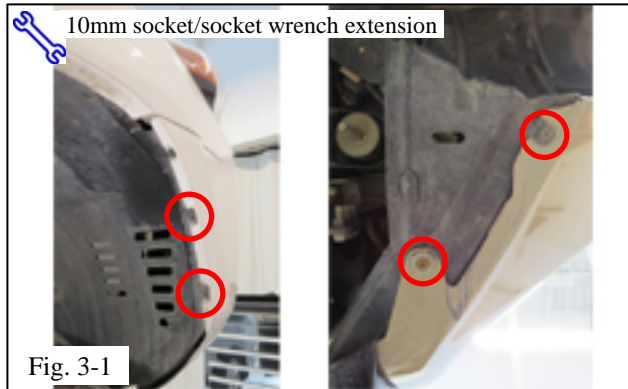
 **CAUTION:** Do not touch the positive terminal with any tool during removal.



**2. Place the Vehicle on Chassis Lift.**

- (a) Raise the vehicle to a comfortable working height.
- (b) Turn the front wheels to the right to gain additional access for removal/installation (Fig. 2-1).



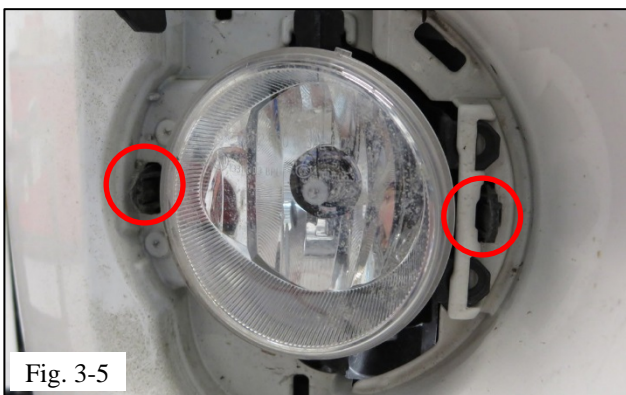


**3. Remove the Right-Hand Factory Fog Lamp.**

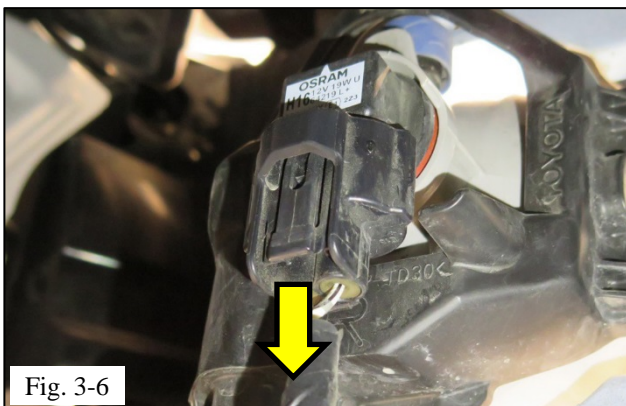
- (a) Partially remove the right front fender liner.
- (b) Remove (2) bottom front screws (Fig. 3-1).
- (c) Bend the fender liner back to gain additional access for removal/installation.
- (d) Partially remove the RH fog lamp bezel.
- (e) From behind the bumper, remove the “T”-lock from the large mounting tab by pressing on the release button and sliding out (Fig. 3-2).
- (f) Release the (2) upper mounting tabs by pressing on the release buttons (Fig. 3-2).
- (g) Release the (1) lower mounting tab by pressing on the release button (Fig. 3-3).
- (h) The very top mounting tab is inaccessible.



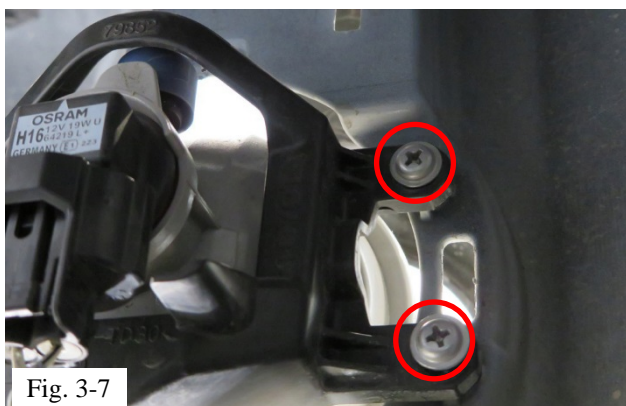
- (i) Gently bend the bezel back exposing the fog lamp splash shield mounting tabs (Fig. 3-4).



- (j) From the front, press in the release buttons on the (2) side mounting tabs to remove the fog lamp splash shield (Fig. 3-5).
- (k) The splash shield must be rotated upward to disengage the upper mounting tab from the bumper.



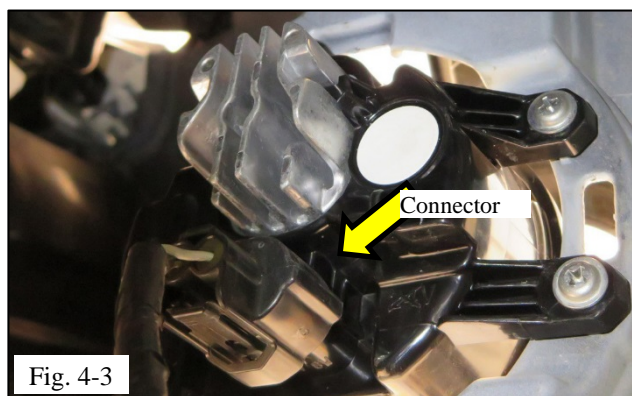
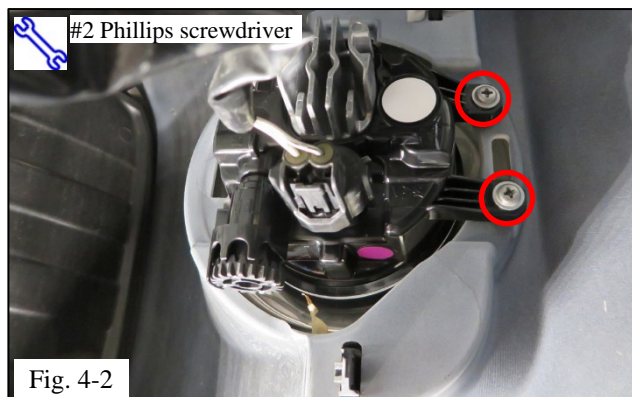
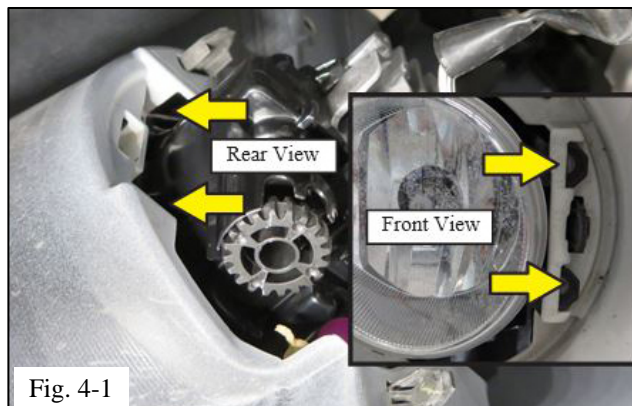
- (l) Disconnect fog lamp connector by pressing the release button and pulling downward (Fig. 3-6).



- (m) Using #2 Phillips screwdriver, remove the (2) mounting screws (Fig. 3-7).

**⚠ NOTE: Save the screws for reuse.**

- (n) Remove the fog lamp and discard.



#### 4. Install the RH LED Fog Lamp.

- (a) Engage the two (2) inner fog lamp mounting tabs by inserting them into the slots in the bumper (Fig. 4-1).
- (b) Rotate the lamp to engage the two (2) outer screw bosses.

- (c) Reinstall the two (2) previously saved mounting screws (Fig. 4-2).


- (d) Reconnect the fog lamp connector by inserting into the fog lamp and pressing forward (Fig. 4-3).



- (e) Reinstall the fog lamp splash shield by first inserting the upper tab into the bumper and rotating downward (Fig. 4-4).
- (f) Engage the two (2) side tabs.
- (g) Completely reinstall the bezel by reinserting the mounting tabs into the bumper and pressing firmly to gain full engagement (Fig. 4-4).
- (h) Bend the fender liner back into position.
- (i) Reinstall the (2) fender liner screws.
- (j) Reinstall the (2) under bumper screws.

**5. Repeat the entire procedure on the left side of the vehicle.**

- (a) The process for the left side of the vehicle **DOES NOT** require removal of the bezel or splash shield.


 **NOTE: Steps 3(a)-3(d) may be omitted.**


**6. Straighten the Front Wheels.**

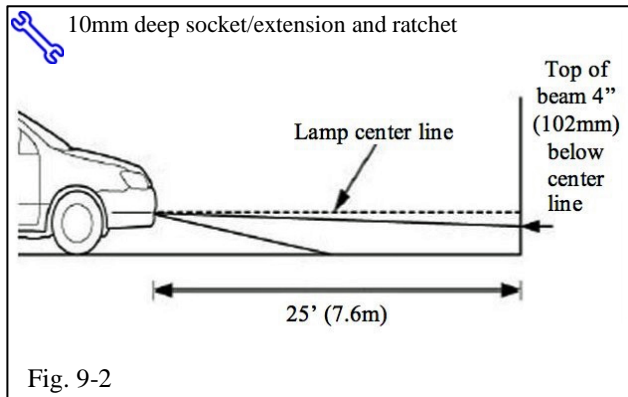
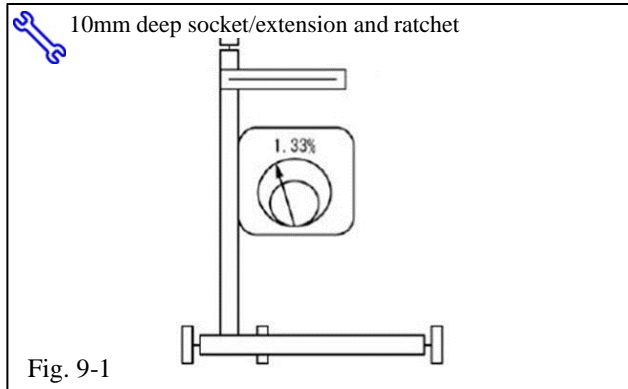
**7. Lower the Vehicle.**

**8. Reconnect the Battery.**

- (a) Reconnect the negative (-) battery cable (Fig. 8-1).

 **Torque: 5.4 N•m (48 in•lbs)**

 **CAUTION:** Do not touch the positive terminal with any tool.



9. Aim the Fog Lights (DIO only).

(a) Align the Fog Light Beam.

**NOTE:** If available, use a Hella Photometric Beam Setter (or equivalent) to align the fog light beam (Fig. 9-1).

(b) If a beam setter is not available, use a wall to aim the lights.

(c) Position the vehicle on a flat surface at a distance of 25 feet (7.6m) from the fog light to a wall (Fig. 9-2).

- (1) Measure the distance from the center of the lamp to the ground and mark off the same height on the wall. This is the fog light centerline (Fig. 9-2).
- (2) Turn on the fog lights and adjust them so that the top of the beam (high intensity portion) falls 4 inches (102 mm) below the mark on the wall (the fog light centerline) (Fig. 9-2).
- (3) Use 10mm deep socket and 8" extension to turn the adjustment screw on the fog lights.

Checklist - these points **MUST** be checked to ensure a quality installation.

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Install a short pin (if necessary)</li> <li><input type="checkbox"/> Turn the headlights on</li> <li><input type="checkbox"/> Check the fog light switch illumination</li> <li><input type="checkbox"/> Turn the fog lights on</li> <li><input type="checkbox"/> Switch the high beams on</li> <li><input type="checkbox"/> Turn the headlights off</li> </ul>	<ul style="list-style-type: none"> <li>Headlights function as normal</li> <li>Switch lights up</li> <li>Fog lights turn on</li> <li>High beams on/Fog lights off</li> <li>Headlights and fog lights turn off</li> </ul>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Taillights/brake lights/turn signals</li> <li><input type="checkbox"/> Reverse lights &amp; emergency flashers</li> <li><input type="checkbox"/> Mirror &amp; dimmer controls</li> <li><input type="checkbox"/> Traction control</li> <li><input type="checkbox"/> Negative battery cable torque</li> </ul>	<ul style="list-style-type: none"> <li>All function properly</li> <li>Function properly</li> <li>Function properly</li> <li>Functions properly</li> <li><b>5.4 N-m (48 in-lbs)</b></li> </ul>
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</li> </ul>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process.</p> <p>(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>