

Part Number: PT948-35160

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Hardware Kit
2	1	Driver Side LED assembly
3	1	Passenger Side LED assembly
4	1	Main Wire Harness

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	4	M3.9 x 13mm Pan Head Stainless Steel Screw
2	40	11-Inch Wire Tie
3	1	Molex Dual Barb Blue T-Tap Connector
4	1	3M 558 Red Scotchlock Connector
5	1	Foam Pad with Adhesive Backing

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses/Gloves	
Bump Cap	
Special Tools	Notes
Drill Template	
Installation Tools	Notes
Screw Gun/Drill	
Nylon Removal Tool	
Socket	10mm
Ratchet	
Torque Wrench	5.4 N-m (48 inch-lbf)
1-1/8" Hole saw	
1/8" Metal/Plastic Drill Bit	
1/8" Drill Stop	
Screwdriver	Slot & No. 2 Philips
Wire Cutters	
Pliers	
Vacuum	
Wire Fish	
Masking Tape	
Special Chemicals	Notes

General Applicability

All 2016 and later Tacoma models

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		
2		
3		

Recommended Sequence of Application







Item #	Accessory
1	Bed Extender
2	LED Bed Lights
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		
3		

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CAUTION: 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.
	TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.
	SAFETY TORQUE: This mark indicates that torque is related to safety.

Procedure

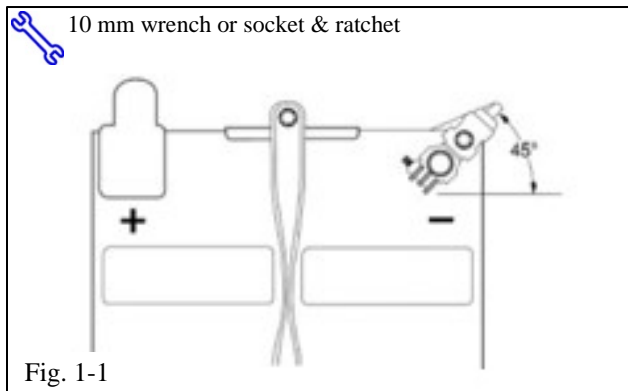
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.

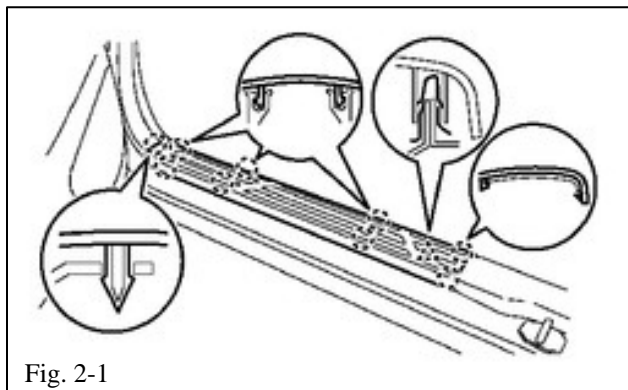


1. Prepare for the Installation.

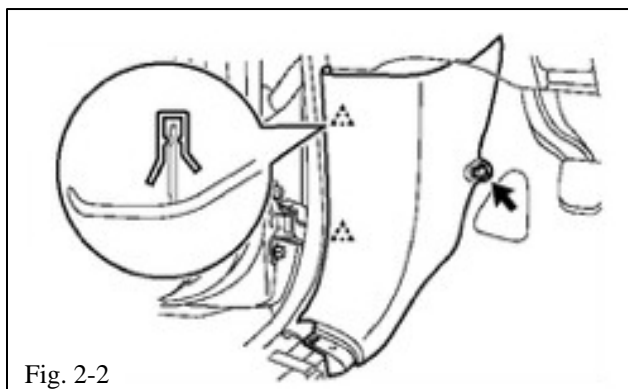
(a) Remove the negative battery cable (Fig. 1-1).

+ CAUTION: Do not touch the positive terminal with hands or any tool.

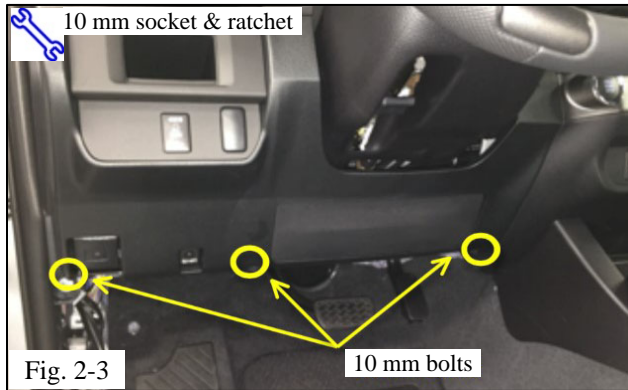
2. Disassemble the Interior.



(a) Remove the front driver side door scuff plate (Fig. 2-1).

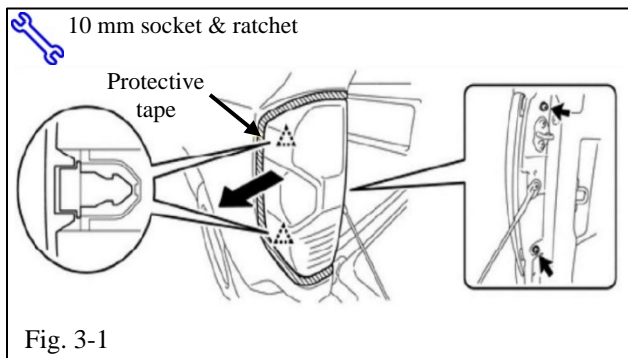


(b) Remove the front driver side kick panel (Fig. 2-2).



(c) **ACCESS CAB (C-CAB) ONLY:** Remove the three bolts, then remove the lower instrument panel (Fig. 2-3). Retain the bolts for reinstallation.

(d) **ACCESS CAB (C-CAB) ONLY:** Disconnect all connectors and hood release latch cable and set the lower instrument panel aside.



3. Remove the Tail Lights.

(a) Place protective tape around the rear combination light assembly LH (Fig. 3-1).

(b) Remove the 2 bolts using a 10mm socket wrench (Fig. 3-1).

(c) Remove the two clips (Fig. 3-1).

(d) Use a screwdriver to detach the 2 clips (Fig. 3-2).

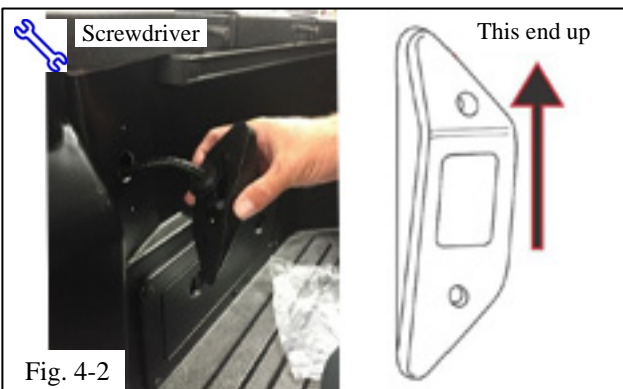
⚠ NOTE: Tape the screwdriver tip before use.

(e) Disconnect each connector and remove the rear combination light assembly LH (Fig. 3-2).

⚠ (f) Set the lamp assembly in a safe place.

(g) Repeat Step 3 on the other side.





4. Install the LED Bed Lights.

(a) Use the drill templates to drill the pilot holes for the bed light LED assemblies (Fig. 4-1).

STOP (1) Cut out the paper templates located on the last two pages of this document by cutting along the dashed lines.

(2) Position the template on the bed wall rib near the tailgate.

(3) Use a 1/8" drill bit with a 2" drill stop to pre-drill all three holes.

(4) Remove the template and use a 1-1/8" hole saw with the same 2" drill stop to enlarge the center hole.

(5) Use a deburring tool to clean the interior and exterior of the holes.

(6) Use a shop rag and cleaner to clean any dust and debris; vacuum all drill shavings.

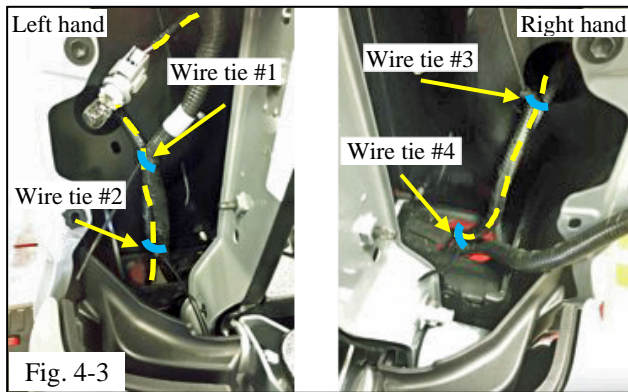
(7) Route the bed light LED assembly wire harness through the 1-1/8" hole (Fig. 4-2).

(b) Install the grommet securely.

(c) Mount the LED assembly and hand tighten the screws 1/4 turn past the bottom.

! **NOTE:** Do not overtighten; do not use power tools.

(d) Repeat Steps 4(a) through 4(d) on the other side.



- (e) Route the wire harness along the factory wire harness and secure it using two wire ties per side (Fig. 4-3).

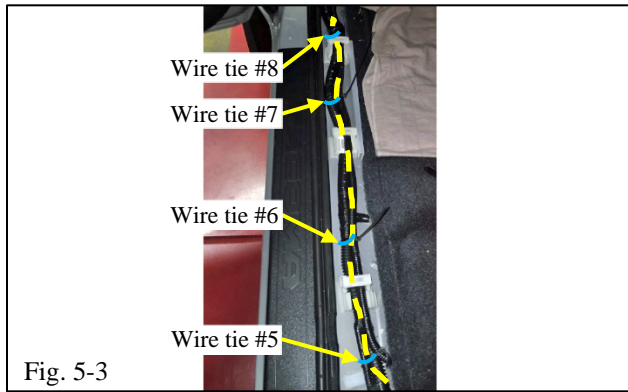
5. Route the Main Wire Harness (Interior).



- (a) Lift the floor carpet under the driver side seat to expose the body grommet (Fig. 5-1).
 - (1) Remove and discard the factory body grommet.
 - (2) Route the main wire harness through the open hole into the passenger compartment and secure the grommet (Fig. 5-1).



- (b) Route the main wire harness up the driver side scuff plate channel into the driver side kick panel (Fig. 5-1).
 - (1) Open the channel clips and route the main wire harness alongside the factory wire harness (Fig. 5-2).



(2) Secure the main wire harness to the factory wire harness in the channel with four wire ties (Fig. 5-3).

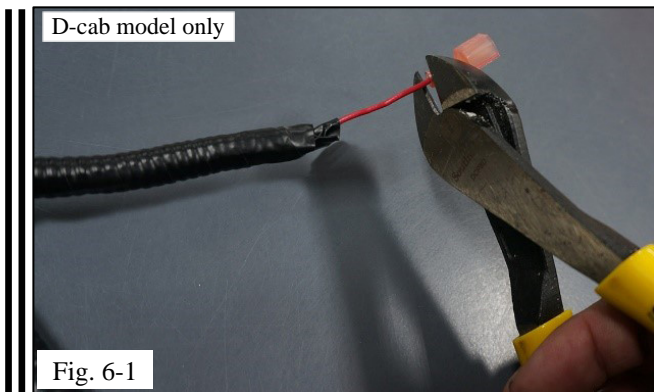
(3) Trim all wire ties.

NOTE: While routing the harness, ensure that the harness fuse is oriented inwards towards the center of the vehicle.

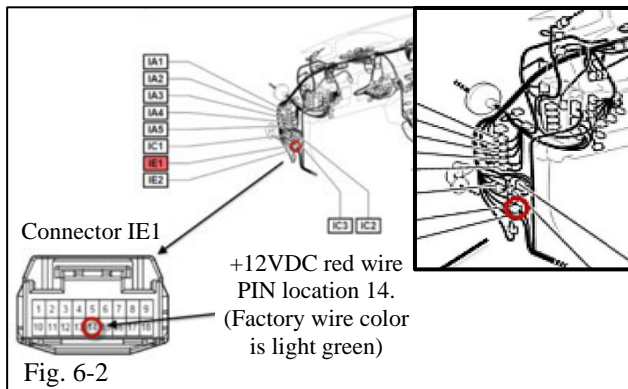
STOP (c) For Double Cab models, continue to Step 6. For Access Cab (C-Cab) models, skip to Step 7.

6. Terminate the Wire Harness (Double Cab models).

(a) Remove the blade terminal from the main harness red wire using wire cutters (Fig. 6-1).



(b) Locate the IE1 white connector located in the lower driver side kick panel (Fig. 6-2).



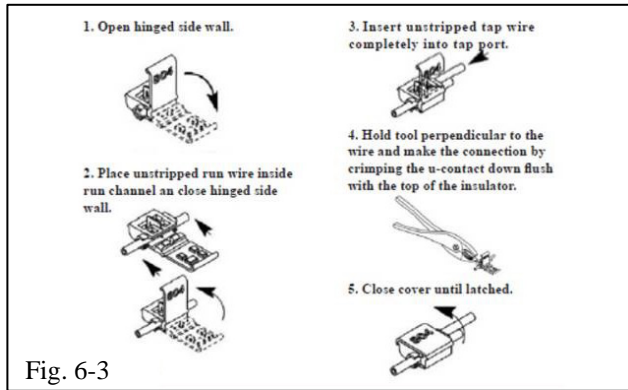


Fig. 6-3

(c) Review the proper T-Tap usage (Fig. 6-3).

(d) Install a red T-Tap to the light green wire (Pin # 14).

NOTE: Do not use the blue T-Tap.

(a) Insert the red wire from the bed light main harness into the red T-tap.

(b) Use pliers to make the connection, then close the hinged top cover.

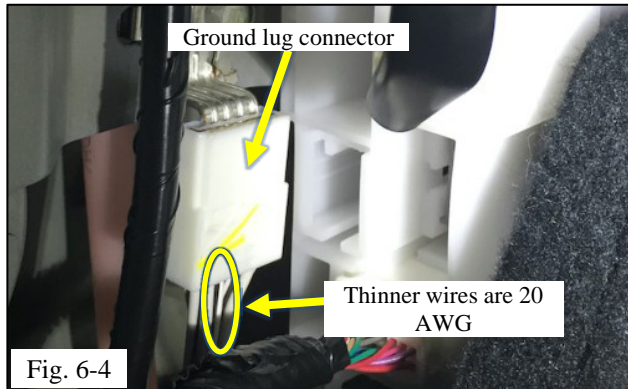


Fig. 6-4

(c) Locate the ground lug connector located in the driver side kick panel next to connector IE1 (Fig. 6-4).

STOP (d) Install a red T-Tap to one of the white/black stripe wires.

NOTE: Do not use the blue T-Tap.

(a) Insert the black wire from the bed light main harness into the red T-tap.

(b) Use pliers to make the connection, then close the hinged top cover.

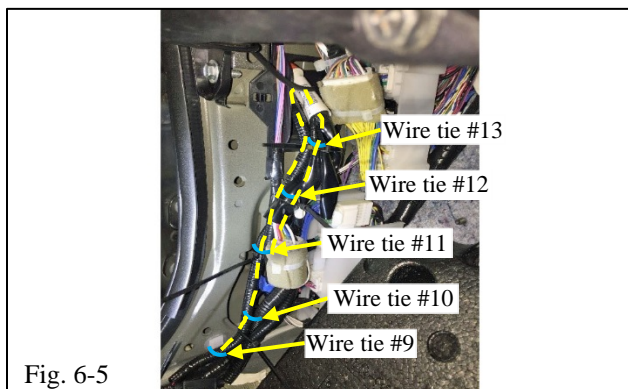


Fig. 6-5

(c) Route the main wire harness up the factory harness and down to the termination points at connector IE1 and the ground lug connector (Fig. 6-5).

(d) Use five wire ties to secure the wire harness along the factory harness (Fig. 6-5).

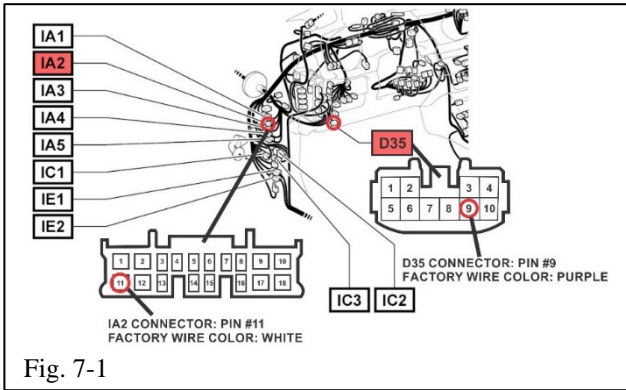
(e) Trim all wire ties.

(f) Skip to Step 8.

7. Terminate the Wire Harness (Access Cab [C-Cab] models).

NOTE: Do not cut the red wire blade terminal.

(a) Locate the IA2 black connector located in the lower driver side kick panel (Fig. 7-1).



(b) Review the proper T-Tap usage (Fig. 6-3).

(c) Install a blue T-Tap to the white wire (Pin #11) (Fig. 7-1).

(d) Insert the red wire from the bed light main harness into the blue T-tap.

(e) Use pliers to make the connection, then close the hinged top cover.

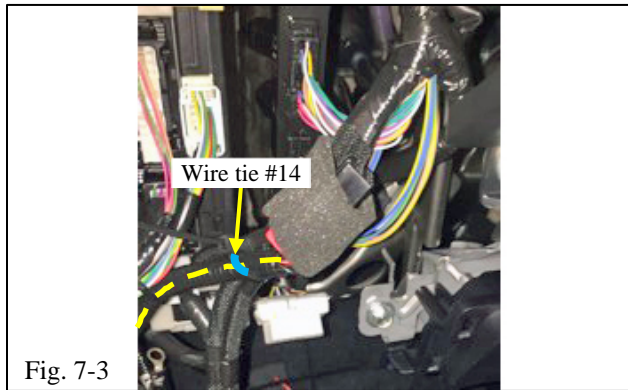
(f) Locate the D35 connector located behind the lower instrument panel on the left side of the steering column (Fig. 7-2).

(g) Install a red T-Tap to the purple wire (Pin #9) (Fig. 7-1).

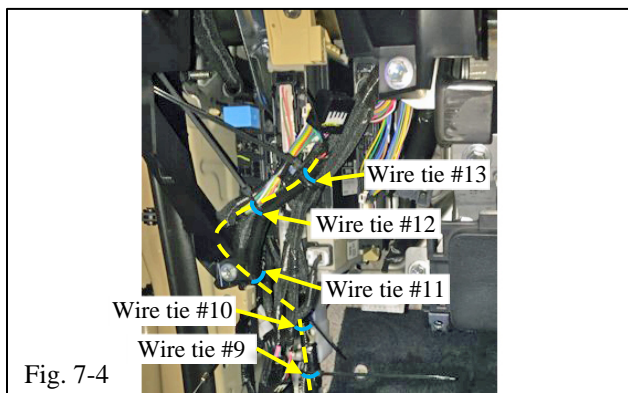
(h) Insert the black wire from the bed light main harness into the red T-tap.

(i) Use pliers to make the connection, then close the hinged top cover.





- (j) Wrap the T-tap and connector D35 to the vehicle wire harness with the provided strip of foam tape (Fig. 7-4).

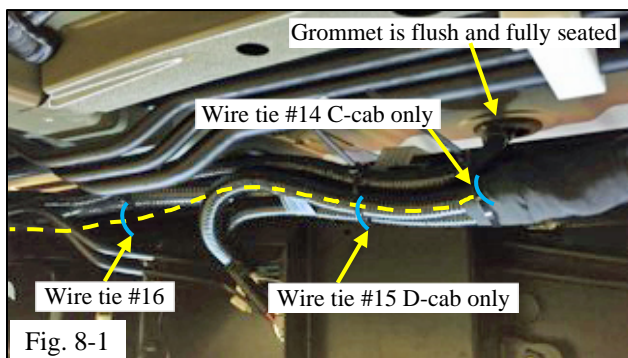


- (k) Use five wire ties to secure the wire harness along the factory harness to connector 1A2 in the driver side kick panel and up to connector D35 in the lower instrument panel (Fig. 7-4).
- (l) Trim all wire ties.

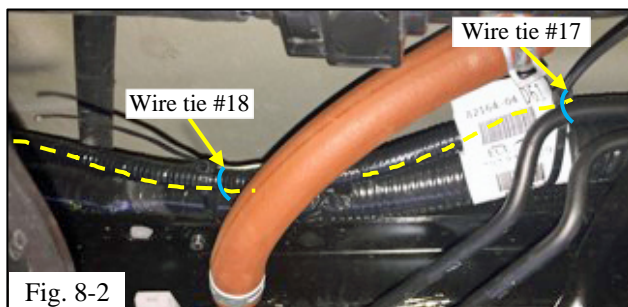
8. Route the Main Harness (Exterior).

- (a) Raise the vehicle.

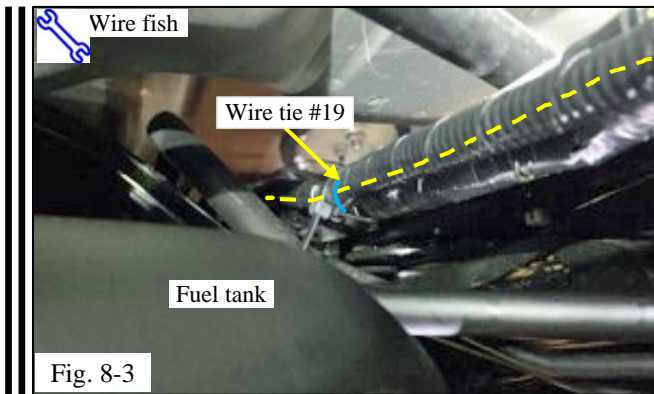
+ CAUTION: Head protection is suggested.



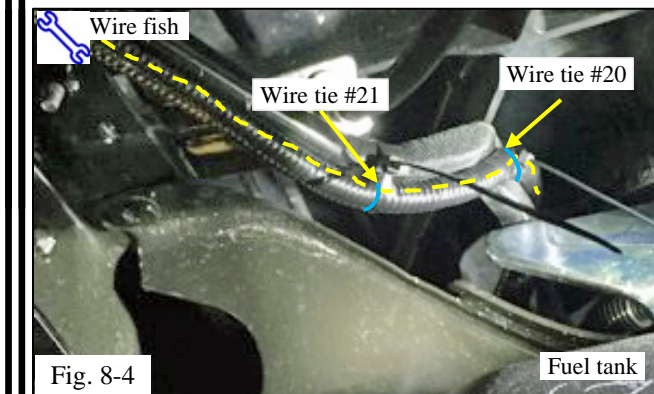
- (b) Route the bed light main wire harness from the grommet along the factory wire harness toward the rear of the vehicle. Follow the route as illustrated (Fig. 8-1 & Fig. 8-2).



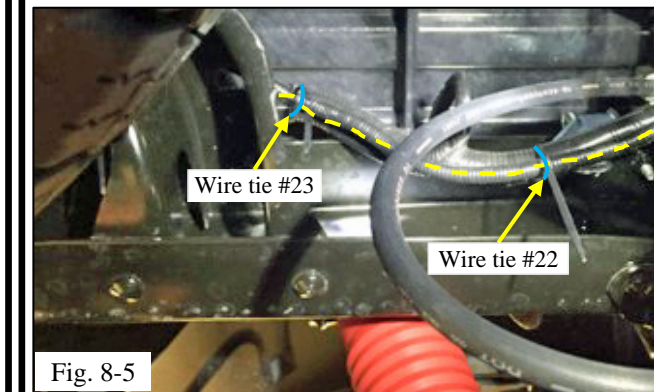
- (c) Secure the bed light main harness with five wire ties (Fig. 8-1 & Fig. 8-2).



(d) Follow the factory wire harness over the fuel tank; use a wire fish to assist in guiding the harness toward the rear of the vehicle. Use a wire tie to secure the bed light main wire harness to the vehicle factory harness (Fig. 8-3).



(e) Continue following the factory wire harness over and past the fuel tank down toward the spare tire. Use two wire ties to secure the bed light main wire harness to the vehicle factory harness (Fig. 8-3 & Fig. 8-4).

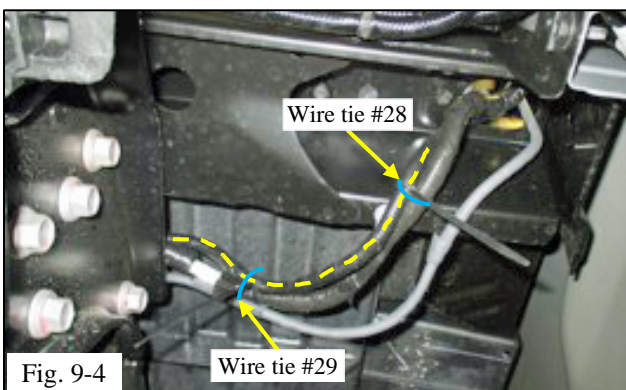
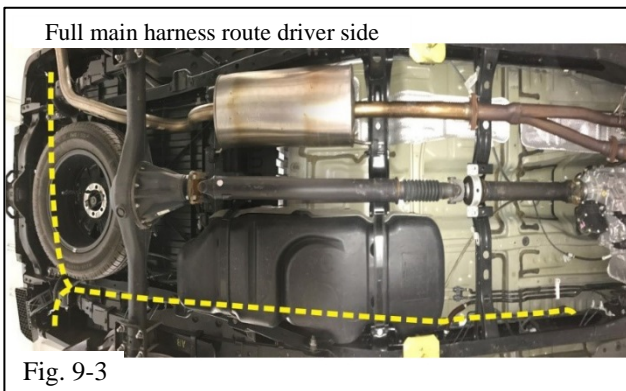
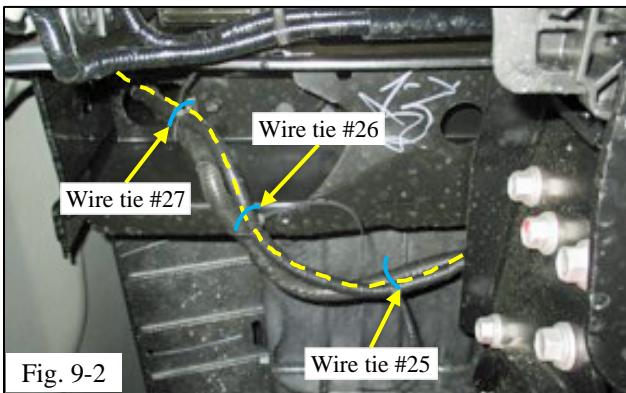
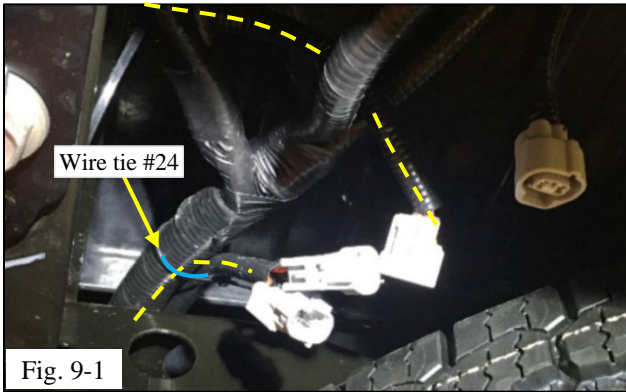


(f) Finish routing the bed light main wire harness at the driver side of the spare tire (Fig. 8-5). Use a wire tie to secure the harness to the vehicle factory harness.

(g) Trim all wire ties.

9. Connect the LED Assembly Wire Harness to the Main Wire Harness.

- (a) Route the driver side LED assembly harness from the inner fender well over the frame, following the factory wire harness. Use four wire ties to secure the bed light main harness to the vehicle factory harness (Fig. 9-1, Fig. 9-2, & Fig. 9-3).



- (b) Route the passenger side LED assembly harness from the inner fender well over the frame, following the factory wire harness. Use two wire ties to secure the bed light main harness to the vehicle factory harness (Fig. 9-4).

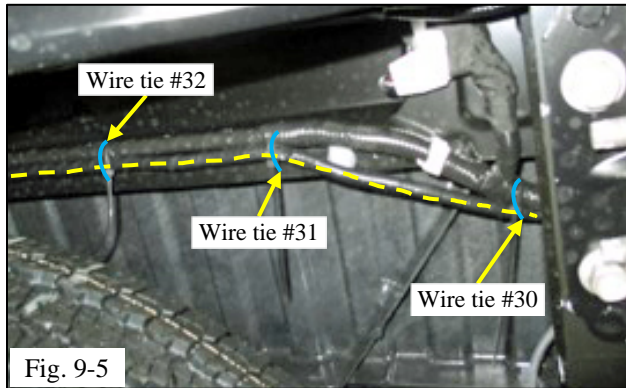


Fig. 9-5

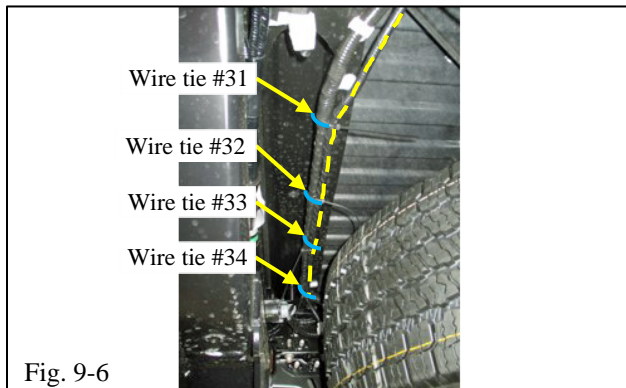


Fig. 9-6

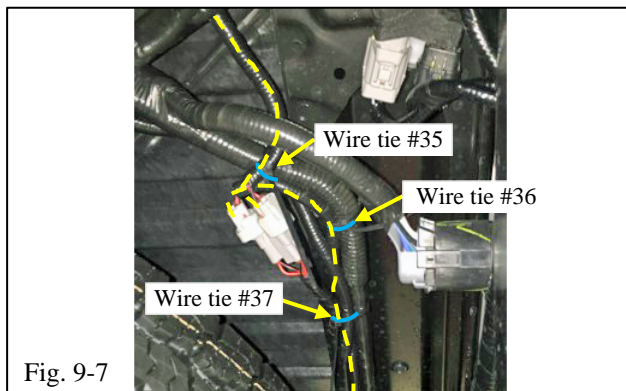


Fig. 9-7

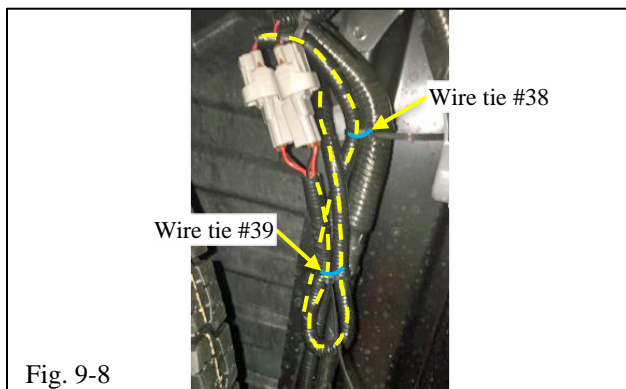


Fig. 9-8

(c) Continue routing the passenger side LED assembly harness along the factory wire harness toward the driver side. Use five wire ties to secure the bed light main harness to the vehicle factory harness (Fig. 9-4 & Fig. 9-5).

NOTE: In Fig. 9-5 & Fig. 9-6, wire ties #31 & #32 are the same.

(d) Route both the driver side and passenger side LED assembly harness to the bed light main harness.

(e) Connect the LED assembly connectors into the bed light main harness connectors and use three wire ties to secure them to the factory wire harness (Fig. 9-7).

NOTE: It does not matter which light is connected to which main harness connection.


(f) **D-Cab Short Bed only:** An additional length of bed light main wire harness will remain. Route and secure the wire harness to the factory wire harness with two wire ties (Fig. 9-8).

(g) Trim all wire ties.

(h) Lower the vehicle.

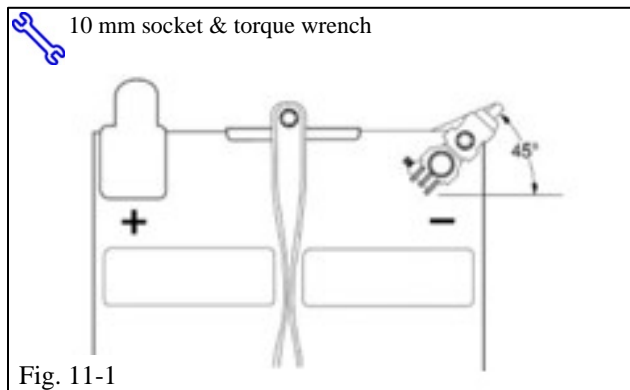
10. Perform a Function Test.

- (a) Temporarily reconnect the negative battery terminal. Install a short pin if necessary.
- (b) Open a door to confirm light operation.

 **NOTE:** On D-Cab models, the cargo switch must be in the “Door” position.

11. Reassemble the Vehicle.

- (a) Reinstall the driver side carpet and kick panel.
- (b) Reinstall the driver side door scuff panel.
- (c) Reinstall the driver side fuse panel cover.
- (d) Reinstall the driver side and passenger side tail lights.
 - (1) Reconnect each light bulb connector.
 - (2) Place the tail light in the proper mounting position and push the tail light towards the front of the vehicle until both clips snap together.
 - (3) Reinstall the (2) 10mm bolts that hold the tail light in place.
 - (4) Repeat the process on the other side.
- (e) **Access Cab (C-Cab) only:** Reinstall the lower instrument panel.
- (f) Clean up and remove any trash.



(g) Reconnect the negative battery terminal.

- (1) Position the negative battery cable at the original factory position (Fig. 11-1).

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

- (2) Tighten the nut to 5.4 N-m (48 in-lbf) of torque.

S **Torque: 5.4 N-m (48 in-lbf)**

(h) Verify the LED Bed Light illuminates when:

- (1) A door is opened.
- (2) The remote is used to unlock the doors.
- (3) The cargo light switch is turned to the “on” position (Double Cab only).

TOYOTA TACOMA 2016 - LED BED LIGHTS

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

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks: D-Cab</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Open Door <input type="checkbox"/> Use key FOB to unlock doors <input type="checkbox"/> Turn cargo light to the "On" position. 	<p>LED bed light to illuminate</p>
<p><u>Vehicle Function Checks: D-Cab</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Driver tail light <input type="checkbox"/> Passenger tail light 	<p>All driver tail light bulbs function properly</p> <p>All passenger tail light bulbs function properly</p>
<p><u>Accessory Function Checks: C-Cab</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Driver tail light <input type="checkbox"/> Passenger tail light 	<p>All driver tail light bulbs function properly</p> <p>All passenger tail light bulbs function properly</p>
<p><u>Vehicle Function Checks: C-Cab</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Driver tail light <input type="checkbox"/> Passenger tail light <input type="checkbox"/> Hood release latch 	<p>All driver tail light bulbs function properly</p> <p>All passenger tail light bulbs function properly</p> <p>Hood release latch properly functions</p>
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection. 	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>

