

Part Number: PK3B6-34JS0

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Body Wire Harness
2	1	Tailgate Wire Harness
3	1	Actuator Assembly
4	1	Push Nut Retainer
5	2	Wire Protector Bezel
6	2	Tape
7	5	Wire Tie for Tailgate Wire Harness
8	38	Wire Tie for Body Wire Harness
9	1	Owner's Manual

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		

Conflicts

Bed Lighting Kit

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses/Gloves	Required
Safety Shoes	Required
Bump Cap	Required
Special Tools	Notes
Installation Tools	Notes
Ratchet	3/8" drive
Extension	3/8" drive
Socket	10mm 3/8" drive
Torx Screw Driver	T30
Torque Wrench	49 in.lbf (5.5 N.m) 57 in.lbf (6.5 N.m) 52 in.lbf (5.9 N.m)
Marker	Other than black
Wire Cutter	Trim wire ties
Plastic Trim Removal Tool	
Special Chemicals	Notes
None	

General Applicability

MY19 Tundra and newer (standard wheelbase) models

Recommended Sequence of Application


Item #	Accessory
1	Tailgate Wire Harness
2	Actuator Assembly
3	Body Wire Harness


*Mandatory


Vehicle Service Parts (may be required for reassembly)


Item #	Quantity Reqd.	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.

 **REGULATORY MARK:** This mark indicates the component is related to regulatory compliance

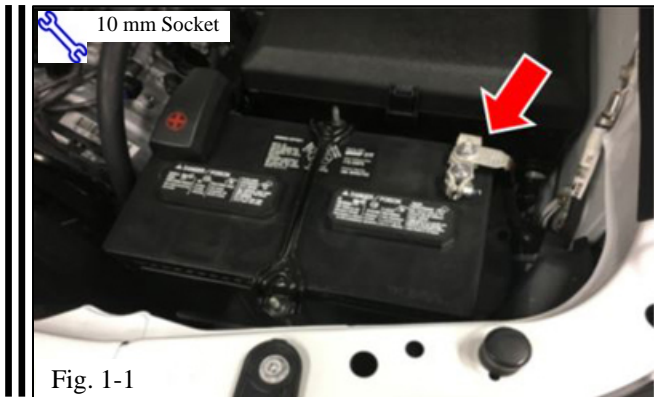
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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. Disconnect the Battery.

(a) Place the vehicle in Park with the Parking Brake Set.

(b) Remove the negative battery cable from the battery (Fig. 1-1).

! NOTE: Remember the battery cable positioning on the pole as it should be reinstalled in the same position.

+ CAUTION: Do not touch the positive terminal with any tool while removing the negative cable.

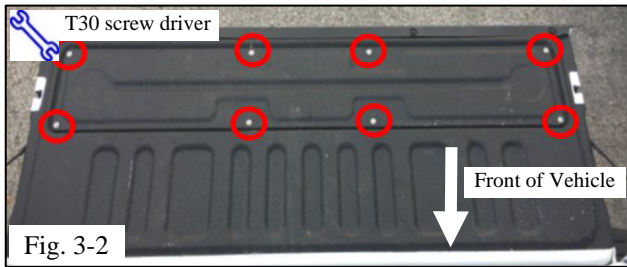
STOP Wait at least 90 seconds before proceeding.


|| 2. Verify the Kit Contents.

3. Disassemble the Tailgate.


(a) Unlock and open the tailgate (Fig. 3-1).

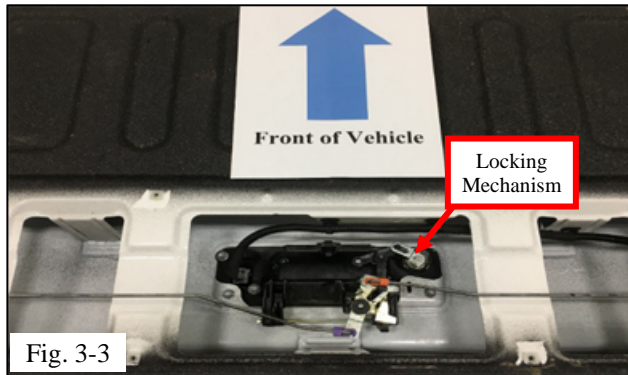




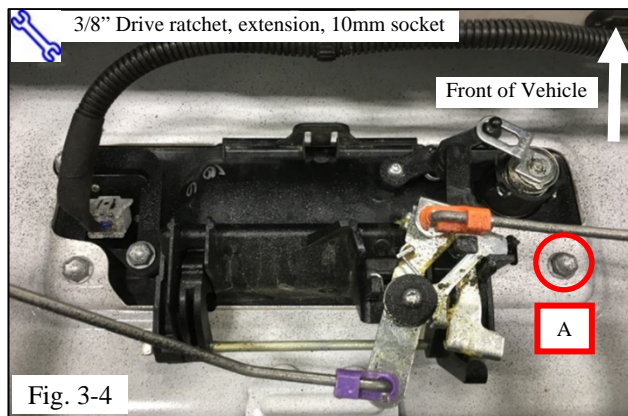
 (b) Remove the 8 screws and tailgate service hole cover (Fig. 3-2).


 **NOTE: Keep the 8 screws.**

 **NOTE:** For beds with a drop-in bed liner, there is a second service hole cover under the first that will also need to be removed.

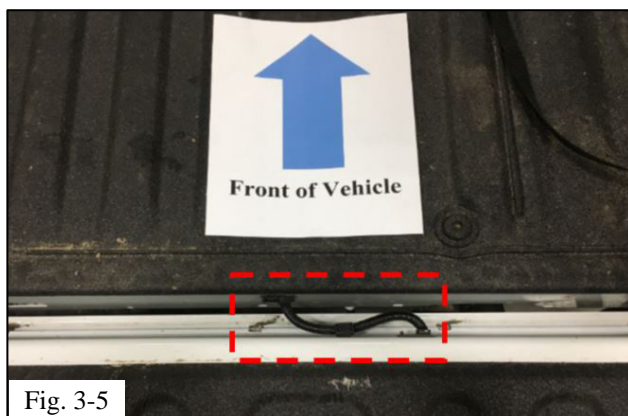


(c) Locate the tailgate locking mechanism (Fig. 3-3).

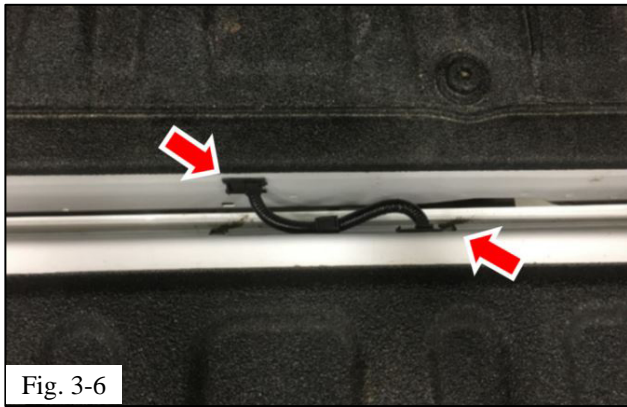


 (d) Remove the indicated bolt shown by "A" (Fig. 3-4).

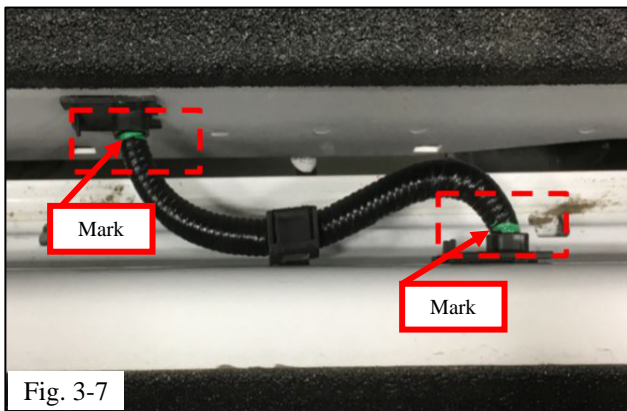
 **NOTE: Keep the bolt.**



(e) Locate the vehicle camera wire harness entering the tailgate in the middle of the tailgate and truck bed (Fig. 3-5).



(f) Locate the two wire protector bezels that holds the vehicle camera wire harness (Fig. 3-6).



(g) Using a marker other than black, mark both exit points of the vehicle camera wire harness. The applied green marks show the correct location (Fig. 3-7).

⚠ NOTE: This is done to ensure that the length of the camera wire harness in between the tailgate and the bed remains the same after installation is complete. This length is important to prevent damage or dislocation of the vehicle wire harness due to repeated use.



🔧 (h) Remove two wire protector bezels that hold the vehicle camera wire harness by pushing the tabs in and using plastic pry tool (Fig. 3-8 & Fig. 3-9).

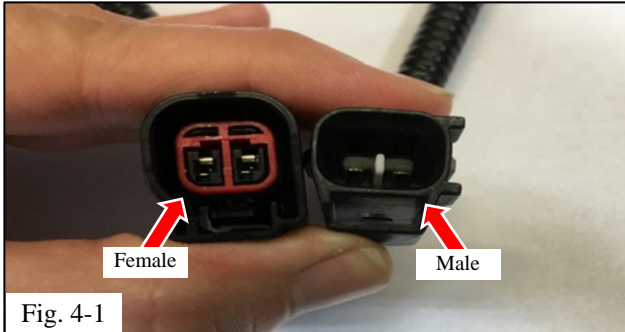
(i) Discard both wire protector bezels.



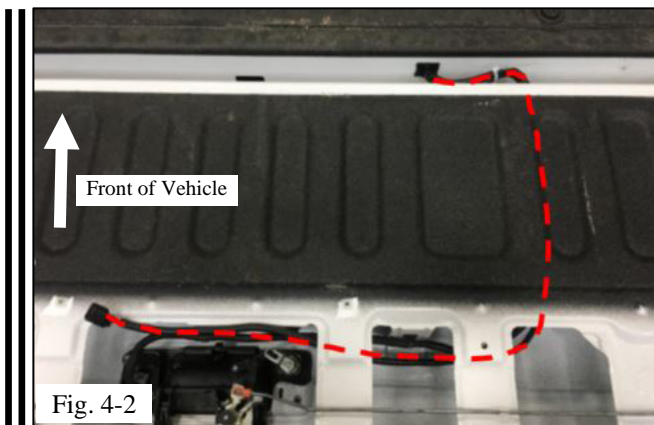
4. Route the Tailgate Wire Harness

 **NOTE:** Shorter harness in the box.

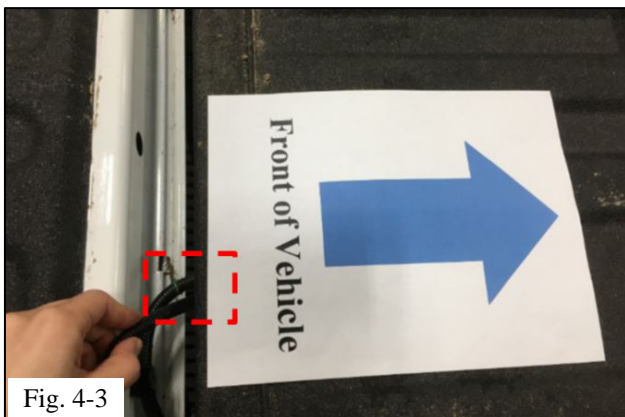
- (a) This harness has one connector on each side; one female (identified by a red secondary lock mechanism inside) and another male connector (Fig. 4-1).



- (b) Route the female connector from the open hole previously occupied by wire protector bezels into the tailgate side and along vehicle camera wire harness to locking mechanism (Fig. 4-2).



- (c) Insert the other side of the tailgate wire harness (male connector) into the hole in the vehicle bed (Fig. 4-3).



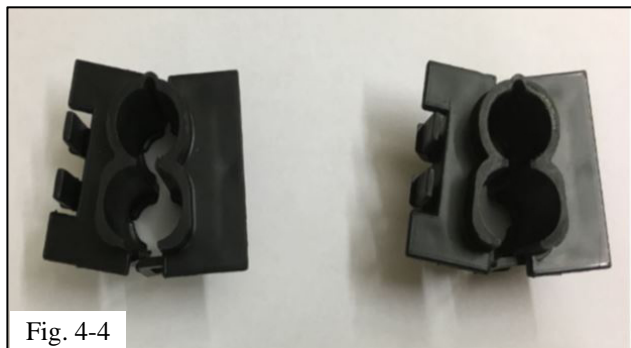


Fig. 4-4

(d) Locate the two new wire protector bezels inside the kit (Fig. 4-4).

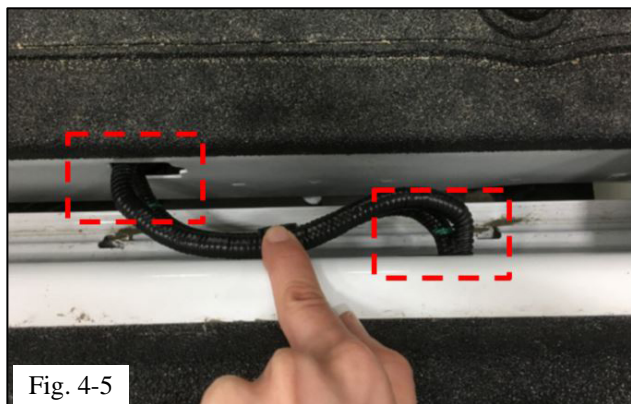


Fig. 4-5

(e) Fig. 4-5 illustrates two sections of the tailgate wire harness that are not taped. Ensure you position the new wire protector bezels on those sections.

⚠ NOTE: Use the markings you created in step 2 of this installation instruction to ensure the length of the vehicle camera wire harness in between tailgate and the bed remains the same before positioning each wire protector bezels.

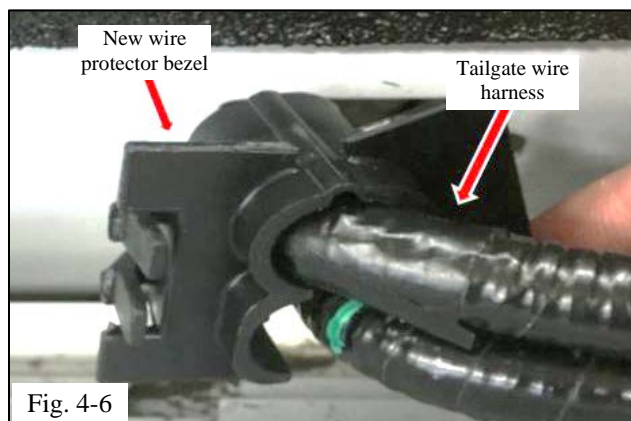
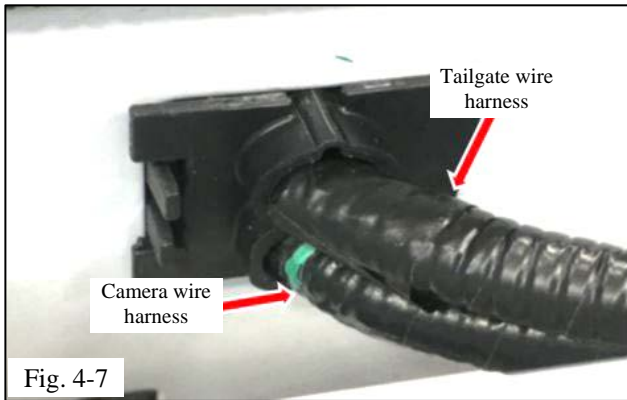


Fig. 4-6

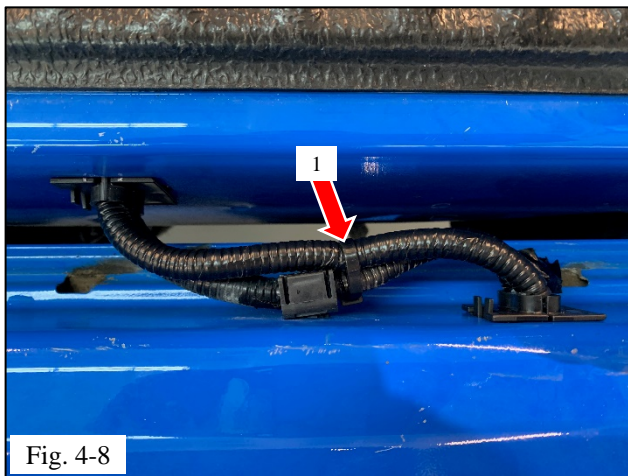
(f) Position each wire protector bezel as shown in Fig. 4-6. Fit the tailgate wire harness into the top and the vehicle camera wire harness into the bottom hole.

⚠ NOTE: Ensure Tailgate Wire Harness is on top and Vehicle Camera Wire Harness is on bottom.



(g) Engage the latch on the wire protector bezels and then place them into the holes on vehicle tailgate and bed (Fig. 4-7).

STOP NOTE: Push, pull, push to ensure the new wire protector bezels are firmly seated in place.

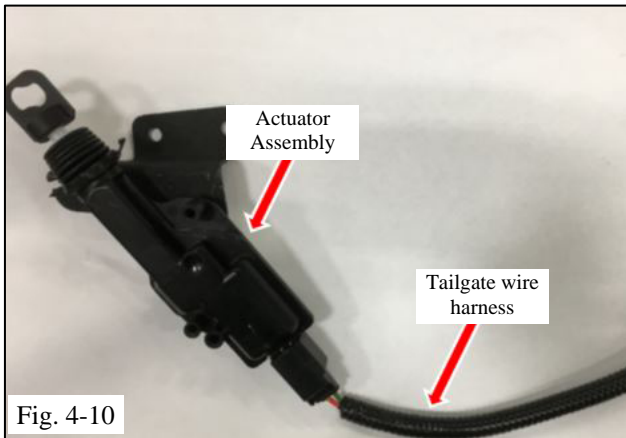


(h) Secure the tailgate wire harness to the vehicle camera wire harness in between the vehicle bed and tailgate using wire tie #1 provided in the Tailgate Wire Harness bag (Fig. 4-8).

STOP NOTE: Clip the excess wire tie and rotate the end of the wire tie to the bottom side of the harness.

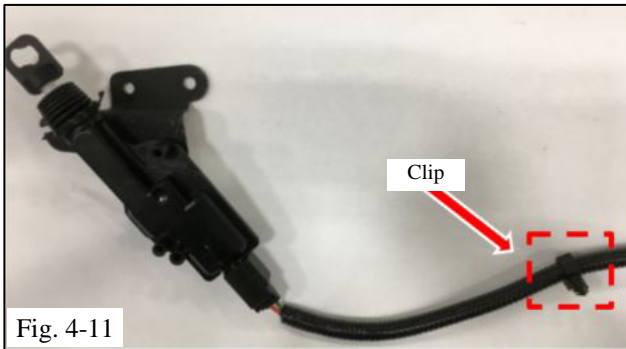


(i) Locate the actuator assembly inside the kit. (Fig. 4-9).

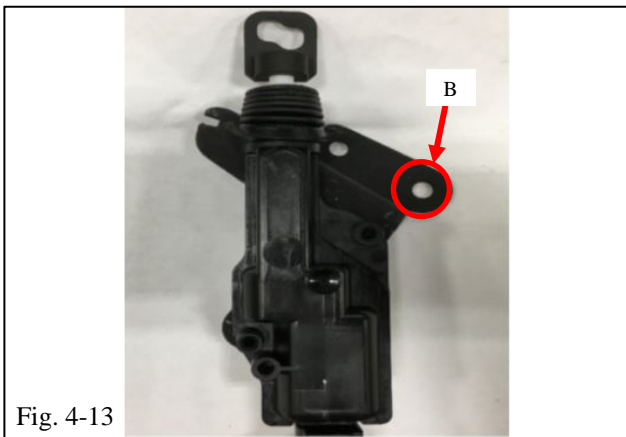


- (j) Plug the tailgate wire harness connector (2 pin, Black) to the actuator assembly connector (2 pin, Black) as illustrated (Fig. 4-10).

STOP NOTE: Push, pull, push to confirm wire harness is connected to actuator assembly.



- (k) Locate the clip on the tailgate wire harness (Fig. 4-11).

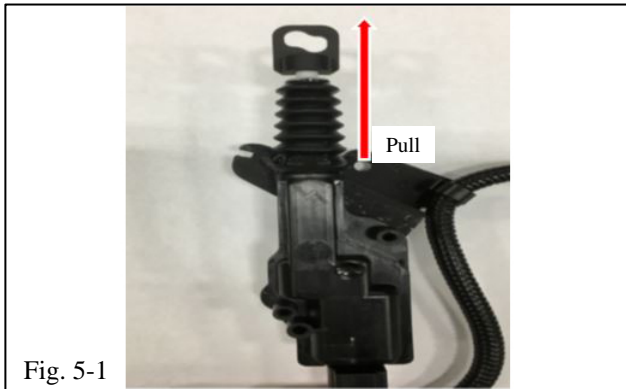


- (l) Use the clip on the tailgate wire harness and attach to hole shown by circle "B" on the actuator assembly (Fig. 4-13 & Fig. 4-14).



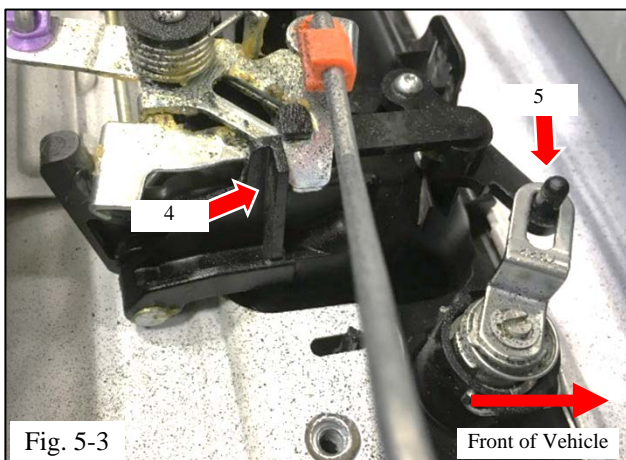
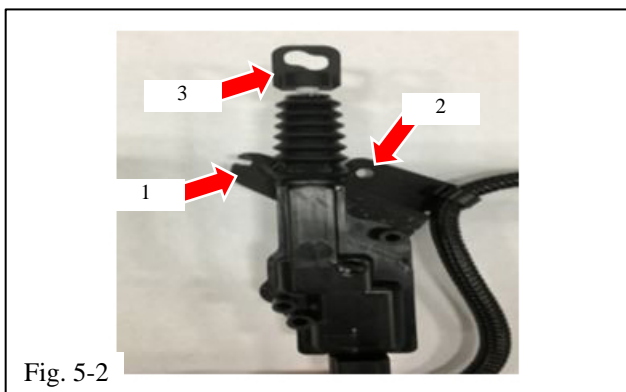
5. Install the Actuator Assembly

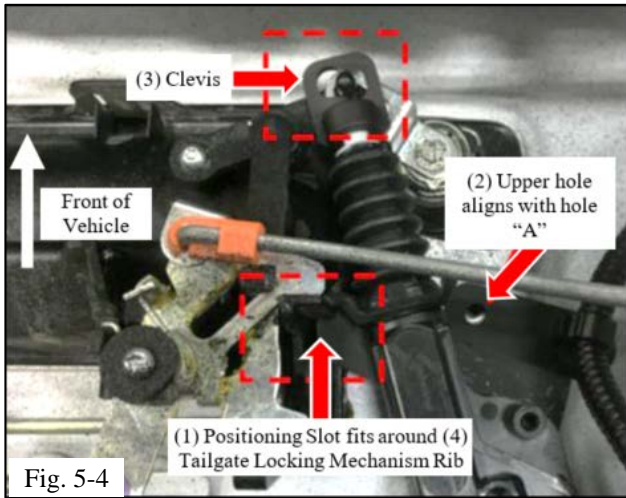
- (a) Pull the actuator rod to the fully open position (Fig. 5-1).



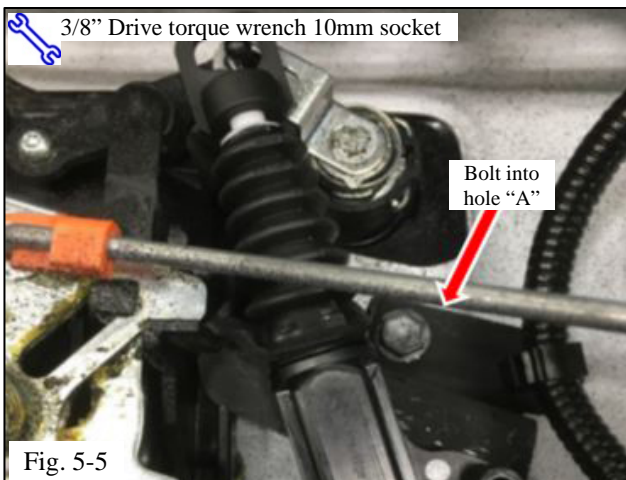
- (b) See Fig. 5-2 & Fig. 5-3 with reference points identified.

- (1) Positioning slot
- (2) Upper hole
- (3) Clevis
- (4) Tailgate locking mechanism rib
- (5) Resin stud





(c) Install the actuator assembly by placing the (3) clevis on the (5) resin stud, aligning the (1) positioning slot on the (4) tailgate locking mechanism rib, and aligning (2) upper hole with hole "A" (Fig. 5-4).

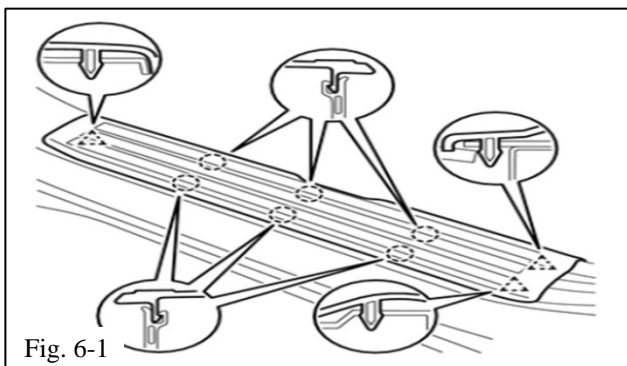
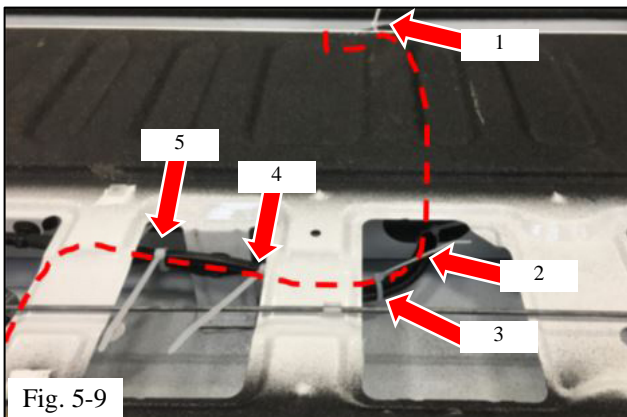
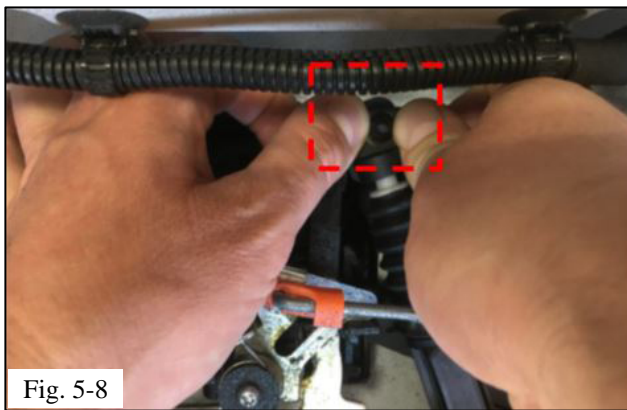
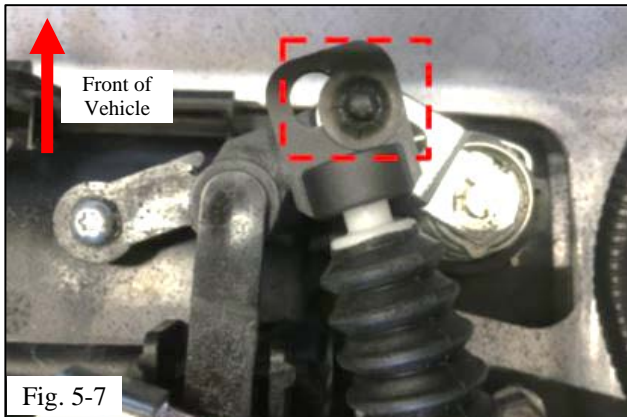


(d) Put the bolt back into hole "A" and tighten the bolt to 49 in-lbf (5.5 N.m) (Fig 5-5).

Torque: 5.5 N-m (49 in-lbf)



(e) Locate the push nut retainer inside the actuator assembly package (Fig. 5-6).



(f) Center the push nut retainer on the resin stud with the raised surface facing outwards (Fig. 5-7).

(g) Use your thumb and index finger to complete the install of the push nut retainer by pinching it onto the resin stud (Fig. 5-8).

STOP NOTE: The push nut retainer should not be loose to the touch and must hold the clevis in place while manually moving the actuator rod to the fully open and close position.

(h) Attach the tailgate harness to the vehicle camera wire harness using wire ties #2, 3, 4 and 5 (Fig. 5-9).

(i) Trim the excess wire ties.

WARNING NOTE: Use caution when trimming wire ties.

6. Disassemble the Interior (Front Passenger Side)

(a) Remove the RH front door scuff plate (Fig. 6-1).

(1) Disengage the 6 claws and 3 clips.

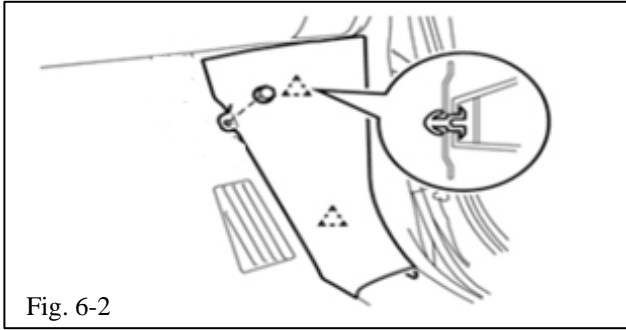


Fig. 6-2



Fig. 6-3

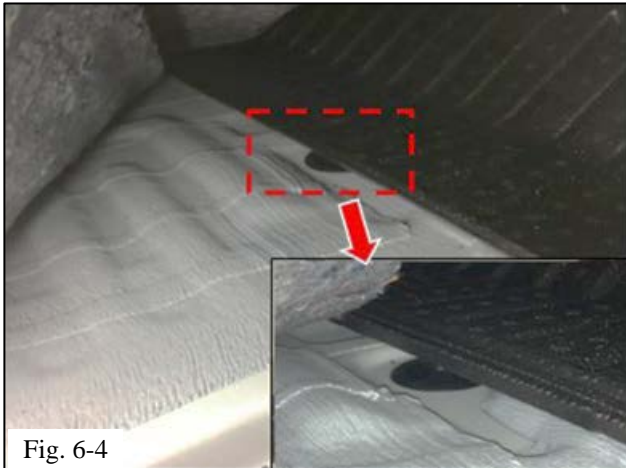


Fig. 6-4

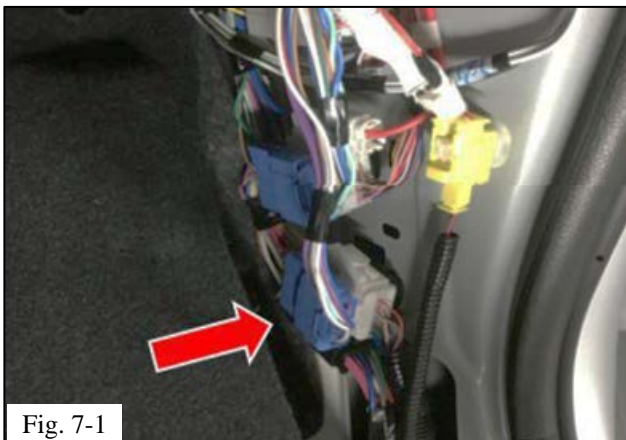


Fig. 7-1

(b) Remove the RH cowl side trim (Fig. 6-2).

(1) Remove the nut and store for reuse.

(2) Disengage the 2 clips and remove the RH cowl side trim.

STOP NOTE: If the clips stay in the vehicle, make sure to remove and re-attach to the RH cowl side trim.

(c) To reach the vehicle body grommet, lift the carpet by dislodging the white plastic edge from the holding claws (Fig. 6-3).

(d) Lift the floor carpet and floor panel Styrofoam to expose the vehicle body grommet (Fig. 6-4).

(e) Remove the vehicle body grommet and discard.

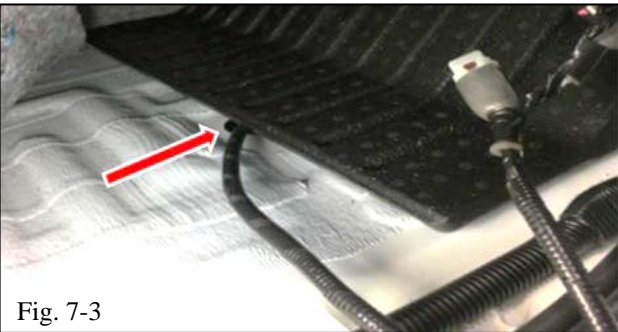
7. Route the Body Wire Harness (Interior)

(a) Locate and unplug connector MJ1 (18P, blue) from the RH cowl side trim (Fig. 7-1).



- (b) Plug the body wire harness connectors (18 pin, white) in between connectors MJ1 (18 pin, blue) in the RH cowl side trim (Fig. 7-2).

STOP NOTE: Push, pull, push to ensure both connectors are connected

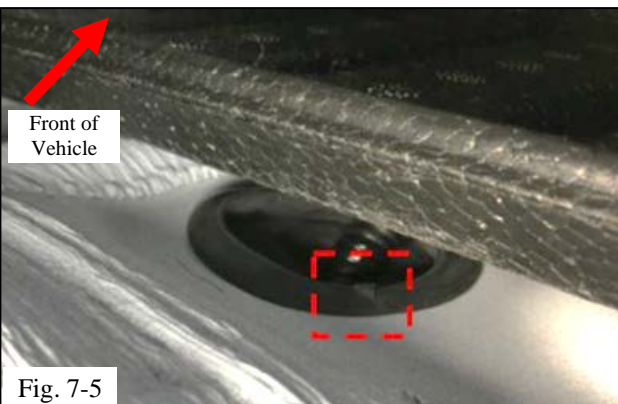


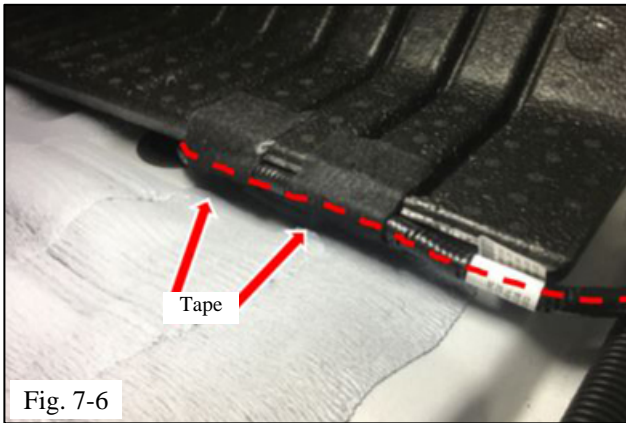
- (c) Route the body wire harness through the open hole previously occupied by the vehicle body grommet from the front passenger compartment to the underside of the vehicle (Fig. 7-3).



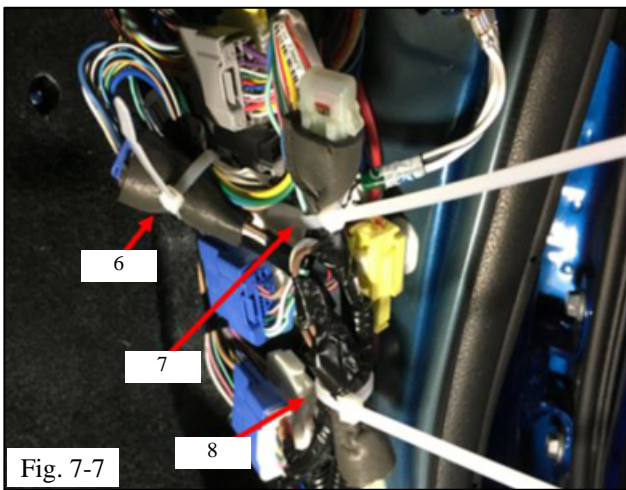
- (d) Before seating the body wire harness grommet in place, look for the indicator arrow and point it to the four o'clock position relative to the front of the vehicle (Fig. 7-4 & Fig. 7-5).

! NOTE: Ensure grommet is firmly seated in place after the body wire harness routing.





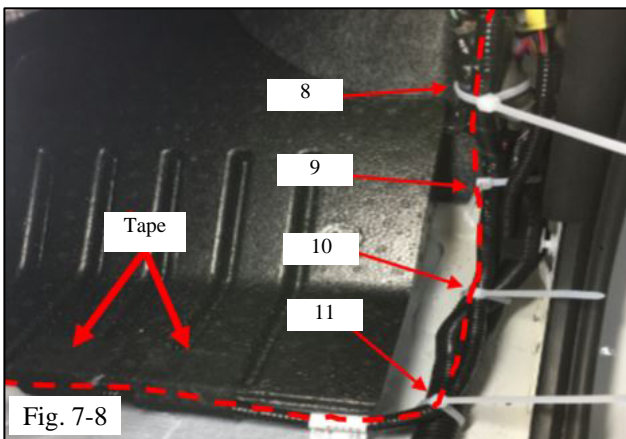
(e) Secure the body wire harness to the floor panel Styrofoam edge using two special tapes provided in the kit (Fig. 7-6).



(f) Secure the 18pin connectors and fuses to the vehicle wire harness with wire ties #6, 7 and 8 (Fig. 7-7).

STOP NOTE: Do NOT wire tie to the airbag wire harness.

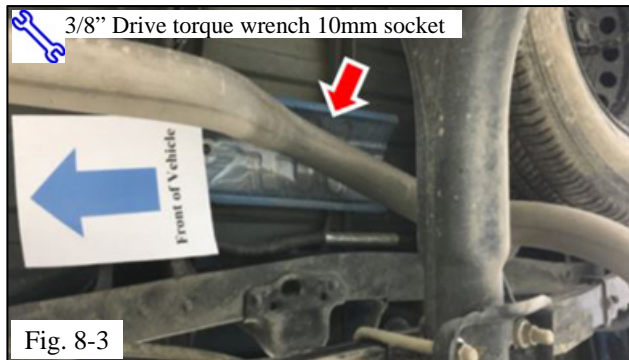
STOP NOTE: Do NOT wire tie to bare wire.



(g) Secure the body wire harness along the vehicle wire harness using wire ties #9, 10 and 11 (Fig. 7-8).

(h) Trim the excess wire ties.

! NOTE: Use caution when trimming wire ties.



8. Route the Body Wire Harness (Exterior)

- (a) Temporarily reconnect the negative battery cable (Fig. 8-1).
- (b) Move the vehicle and position it on the lift.

⚠ NOTE: Do not run over the body wire harness when moving the vehicle.

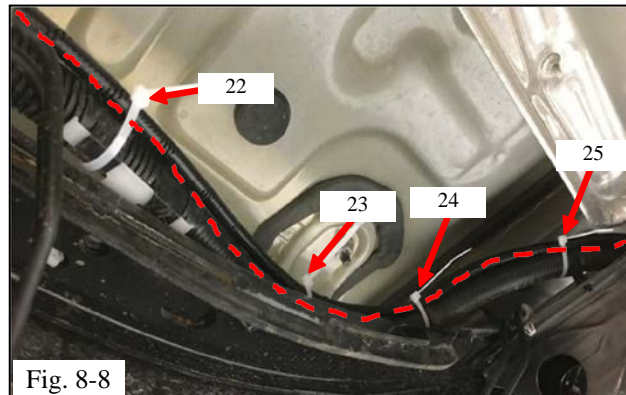
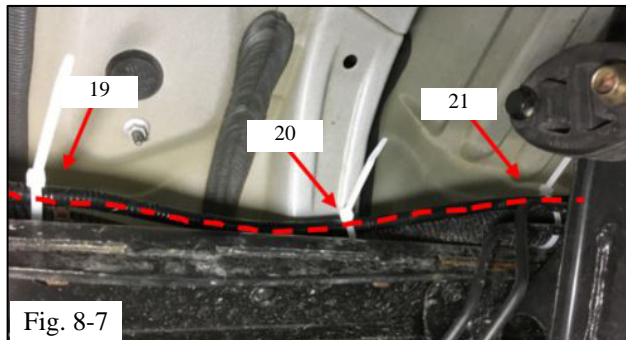
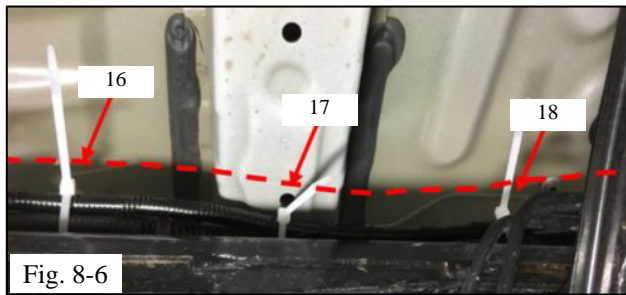
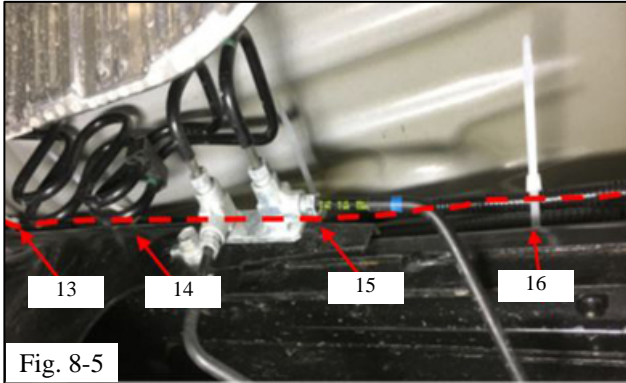
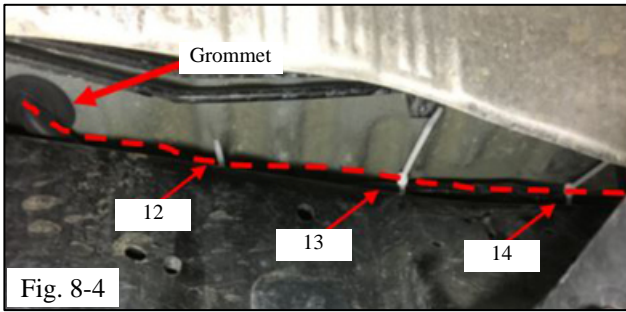
- (c) Remove the negative battery cable from the battery (Fig. 8-2).
- (d) Raise the vehicle to route the body wire harness underside of the vehicle.

+ NOTE: Use caution to protect your head.

- (e) Locate the body side heat shield on the rear deck above the tailpipe and remove the two bolts holding it (Fig. 8-3).

⚠ NOTE: Note the heat shield orientation before removing it.

⚠ NOTE: Keep the bolts.



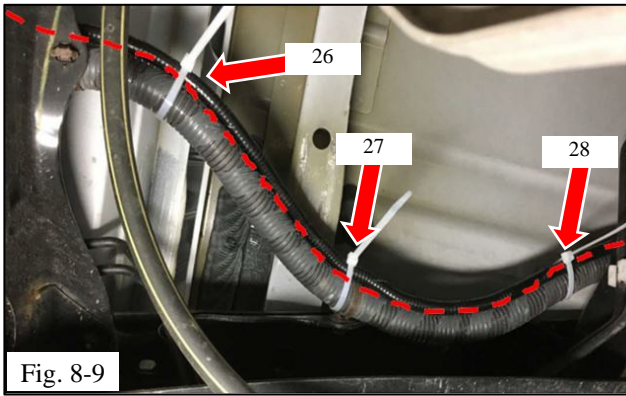
(f) Route the body wire harness from the grommet along the vehicle wire harness towards the rear of the vehicle. Secure it to vehicle wire harness with wire ties #12, 13, 14, 15, 16, 17, 18, 19 and 20 (Fig. 8-4 and Fig. 8-5).

⚠ NOTE: Do not wire tie to brake lines.

(g) Follow the route as illustrated and secure the body wire harness to vehicle wire harness using wire ties #17 and 18 (Fig. 8-6).

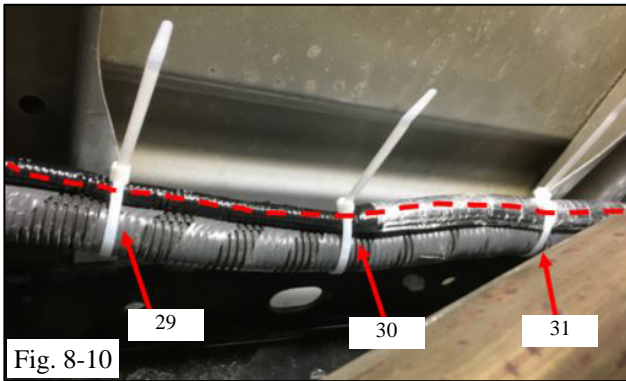
(h) Route the body wire harness along the vehicle wire harness and secure using wire ties #19, 20, 21, 22, 23, 24 and 25 (Fig. 8-7 and Fig. 8-8).

⚠ NOTE: Do not wire tie brake lines.



- (i) Continue routing the body wire harness along the vehicle wire harness towards the rear of the vehicle using wire ties #26, 27 and 28. (Fig. 8-9)

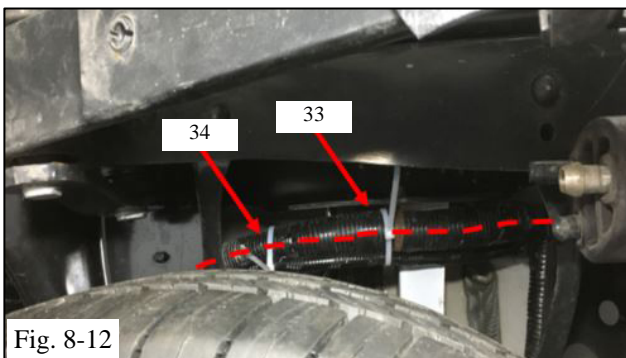
⚠ NOTE: Do not wire tie brake lines.



- (j) Follow the vehicle wire harness towards the spare tire using wire ties #29, 30, 31 and 32 (Fig. 8-10 and Fig. 8-11).

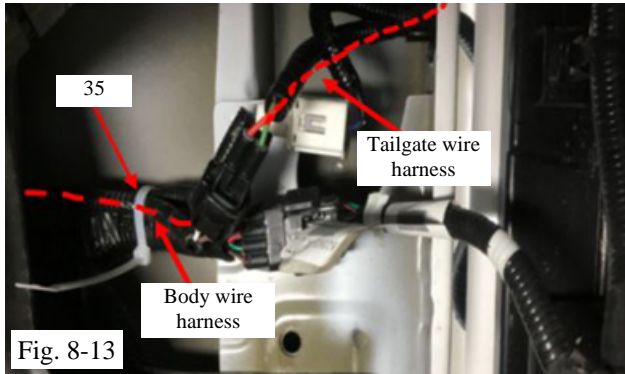
STOP NOTE: Do not zip tie to vehicle's Reflective Heat Shield Sleeve.

⚠ NOTE: Muffler/exhaust might be hot.



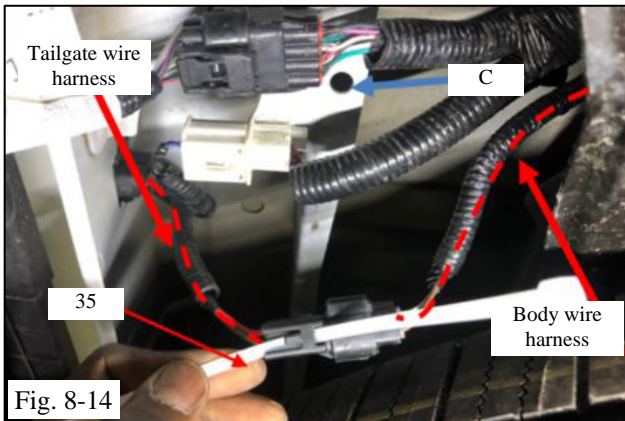
- (k) Continue routing the body wire harness along the vehicle wire harness using wire ties #33 and 34 (Fig. 8-12).

⚠ NOTE: Do not wire tie brake lines.

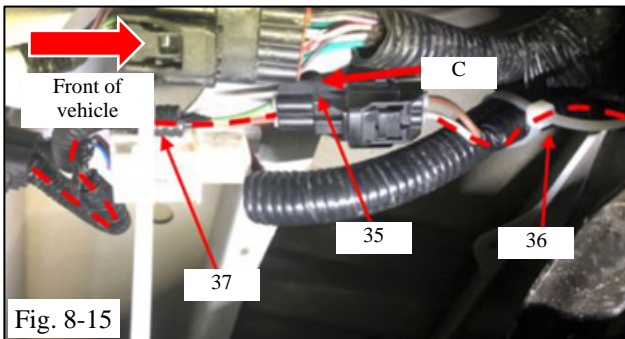


- (l) Plug the body wire harness connector (2 pin, Black) into the tailgate wire harness connector (2 pin, Black) (Fig. 8-13).

STOP NOTE: Push, pull, push to ensure both connectors are connected



- (m) Use wire tie #35 and pass it through the body and tailgate connectors and then secure it to hole "C" located on the vehicle body (Fig. 8-14).

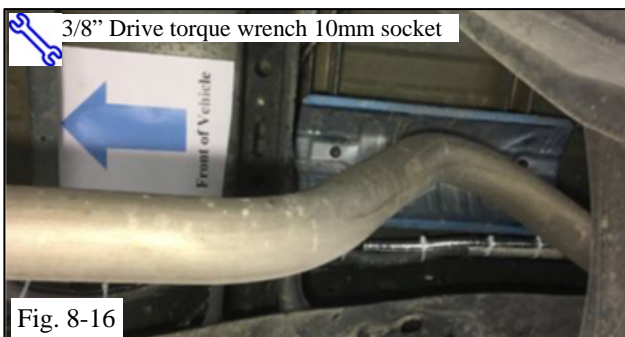


- (n) Secure the body wire harness to vehicle harness using wire tie #36. Secure the tailgate harness to the vehicle side connector using zip tie #37 (Fig. 8-15).

- (o) Trim the excess wire ties.

! NOTE: Use caution when trimming wire ties.

|| ! NOTE: Confirm connector assembly orientation does not put stress on wire harnesses.



- (p) Reinstall the heat shield using the bolts (Fig. 8-16).


Torque: 6.5 N.m (57 in-lbf)

STOP NOTE: Ensure the heat shield orientation is correct.

- (q) Lower the vehicle.

9. Reconnect the Battery

- (a) Reconnect the negative battery cable at the original factory position (Fig. 9-1).

 **Torque: 5.9 N.m (52 in-lbf)**


 **CAUTION:** Do not touch the Positive terminal with any tool while reinstalling the negative cable.



Fig. 9-1

10. Install the Short Pin Fuse

 **NOTE: Port Installed ONLY – Dealer install skip to step 11.**

- (a) Temporarily insert the short pin fuse in the engine room R/B and J/B located inside the engine compartment to perform the function checks (Fig. 10-1)

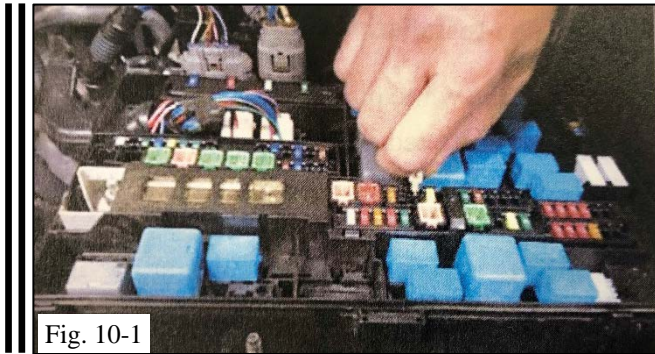


Fig. 10-1

11. Perform a Function Check

- (a) Close all vehicle doors including tailgate.
- (b) Press Lock on vehicle key fob.
 - (1) All doors including tailgate are locked.
- (c) Press Unlock on vehicle key fob.
 - (1) Only driver door is unlocked
- (d) Press Unlock twice on vehicle key fob.
 - (1) All doors including tailgate are unlocked.

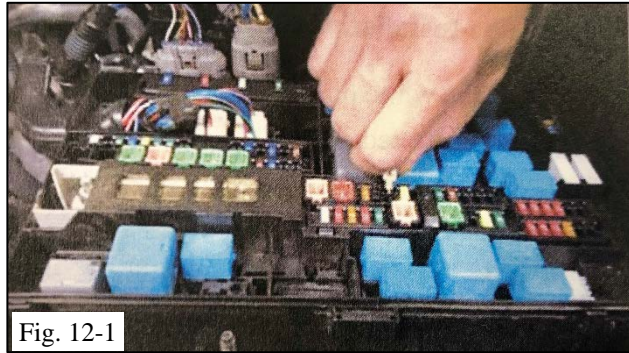


Fig. 12-1

12. Remove the Short Pin Fuse

- (a) Remove the short pin fuse in the engine room R/Band J/B located inside the engine compartment (Fig. 12-1).



Fig. 13-1

13. Complete the Installation

- (a) Reinstall the white plastic edge into the claws as illustrated (Fig. 13-1).

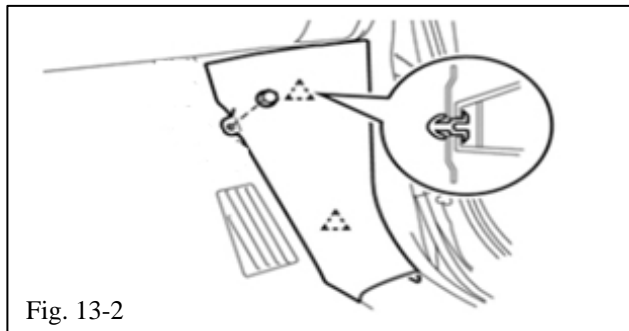


Fig. 13-2

- (b) Reinstall the RH cowl side trim with the nut (Fig. 13-2).

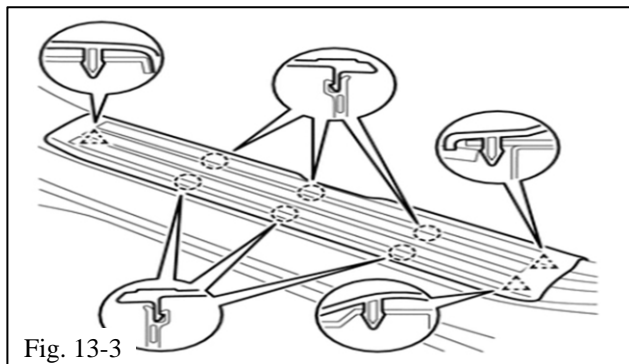


Fig. 13-3

- (c) Reinstall the RH front door scuff plate (Fig. 13-3).

STOP NOTE: Ensure the panels fit together properly, with no uneven gaps.



- (d) Reinstall the tailgate service hole cover (Fig. 13-4).
- (e) Place the power tailgate lock owner's manual in the glove compartment.

TOYOTA TUNDRA 2019 - POWER TAILGATE LOCK

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

Check: _____

Accessory Function Checks:

- Correct part number has been installed.
- Press LOCK on vehicle key fob.
- Press UNLOCK on vehicle key fob.
- Press UNLOCK twice on vehicle key fob.

Verify part number of the kit.

All doors including tailgate are Locked.

Only driver side door is Unlocked.

All doors including tailgate is Unlocked.

Vehicle Function Checks

- Power Window
- Power Window, Auto Up/Down (if equipped)
- Power Mirror Function
- Seat Position Memory (if equipped)
- When headlight is ON
- Backup Camera Operation
- Manual Tailgate Lock/Unlock with Physical Key

Front Passenger window functions properly.

Front Passenger window functions properly.

RH Rear View Mirror functions properly.

Seat Position Memory functions properly.

Running Light located on RH Side View Mirror is ON (If Equipped).

Backup Camera functions properly.

Tailgate Locking Mechanism locks and unlocks.

Vehicle Appearance Checks

- After accessory installation and removal of protective cover(s) perform a visual inspection

Ensure no damage (including scuffs and scratches) was caused during the installation process.