



GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION: Electronic Tailgate Lock Kit

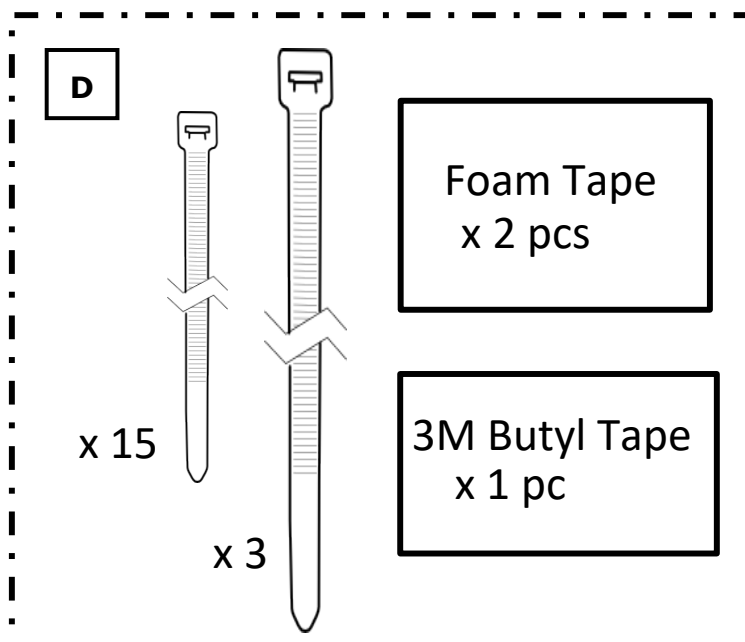
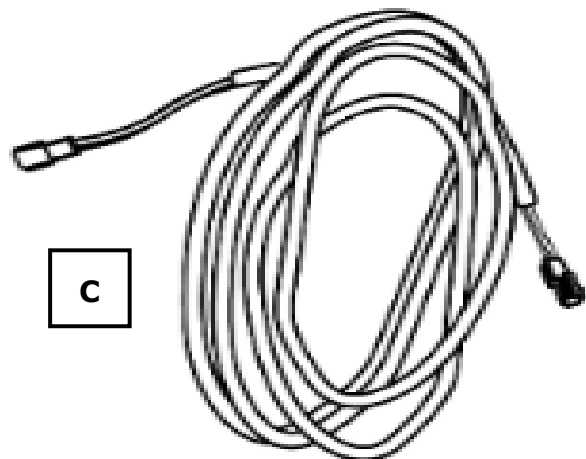
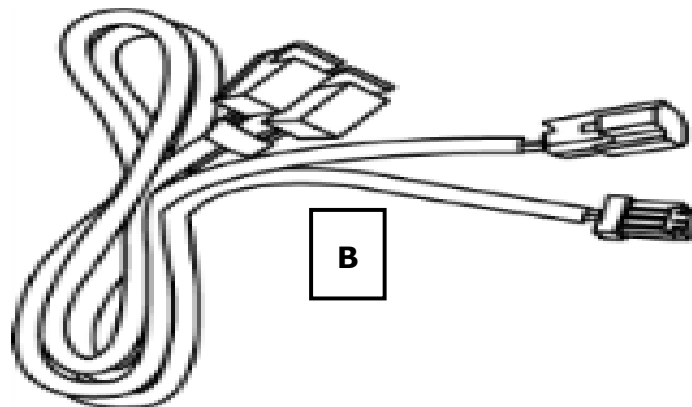
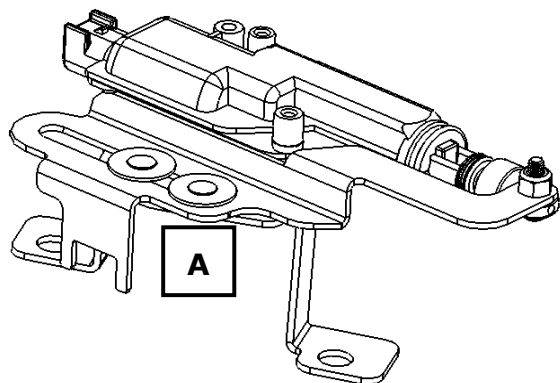
APPLICATION: Frontier

PART NUMBER(S)

REQUIRED FOR T99M2 9BU0A ELECTRONIC TAILGATE LOCK KIT

INSTALLATION:

KIT CONTENTS:



Important: Read Before Installation!

Dealer Installation Recommended.

WARNING

• To avoid serious personal injury or property damage, obtain Installation Instructions before attempting to install this accessory. The Installation Instructions provide the necessary procedures for a safe installation.

CUSTOMER INTERNET DOWNLOAD INSTRUCTIONS:

Customers can obtain Installation Instructions for Infiniti or Nissan vehicles at www.Infiniti-TechInfo.com or www.Nissan-TechInfo.com respectively. From the home page, select Accessory Instructions. Select your Model, Model Year, and Accessory Type or search for your Model, and or Model Year, and or Accessory Type including Keyword or Part Number, then locate the Instructions for your accessory.

DEALER ASSIST DOWNLOAD INSTRUCTIONS:

Dealership technicians can locate the Installation Instructions for this accessory by scrolling to and select, "Acc. Install Instructions" tab. Always download and use latest version of the Installation Instructions.

Installation Instructions Replacement Template 999V2 4W000 Rev. 07/12/15

**PART NUMBER(S)
REQUIRED FOR
INSTALLATION:**

KIT CONTENTS:

Item	Level	QTY	Description	Nissan Part Number
Kit	1	1	Electronic Tailgate Lock Kit	T99M2 9BU0A
A	2	1	Electronic Actuator Assembly	NA
B	2	1	Interior Harness with relays	NA
C	2	1	Exterior Harness	NA
D	2	1	Hardware Kit	NA
		3	Butyl Tape, 48 x 89 mm	NA
		3	Foam Tape, 60 x 90 mm	NA
		3	Wire Ties, 8 inch, Black	NA
		3	Wire Ties, 12 inch, Black	NA
E	2	1	Installation Instructions Replacement Template	999V2 AW000
		0	Installation Instructions (Located on Nissan Website)	T99M2 9BU0A II

TOOLS REQUIRED:

- Ratchet, 1/4" drive
- Socket, 10mm, 1/4" drive
- Torque Wrench, 1/4" drive
- Screwdriver, Phillips #2
- Trim Removal Tool, Nylon
- Pliers, Wire Cutting
- Masking Tape
- Work Light

INSTALLATION CAUTIONS:

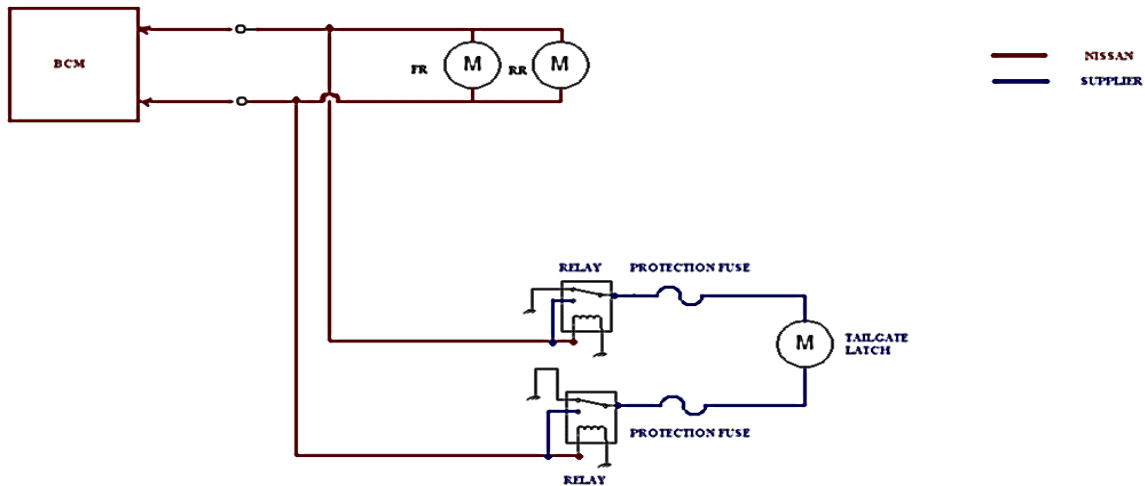


CAUTION

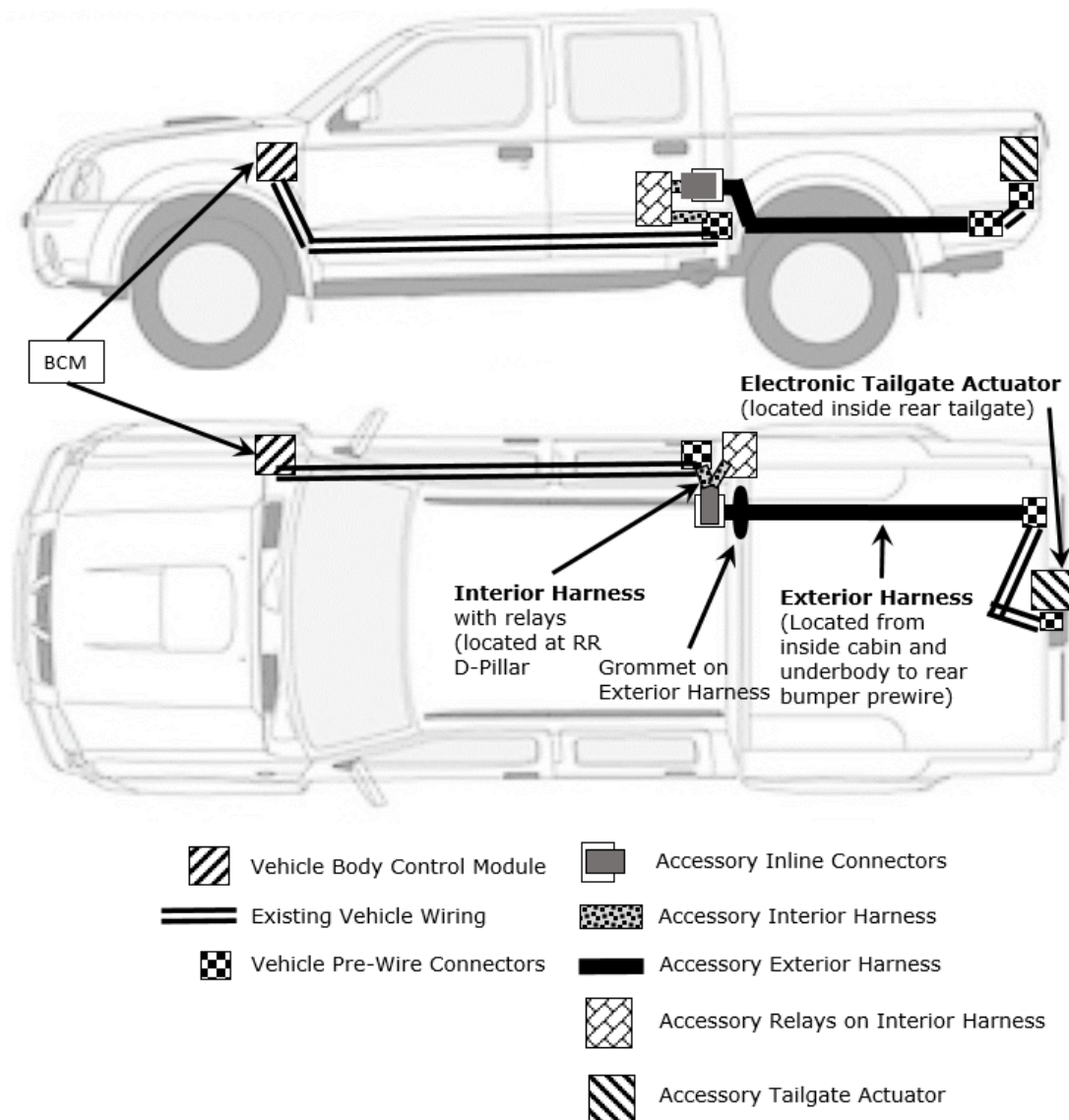
- Dealer installation recommended. Instructions may refer to Service Manual.
- Please read this instruction carefully before installing this product for correct installation.
- Please DO NOT use or install the part in ways other than what is described.
- Always use floor, seat and steering wheel protection.
- Parts utilizing adhesion as method of attachment are to be installed at surface temperature of 15-38° C
- Apply masking tape as needed to protect areas that may be scratched or damaged by tools.
- Always remove vehicle parts in the sequence directed. Improper procedure can damage parts.
- Take care not to scratch or damage any component during the removal or re-installation process.
- Trim pieces found to have witness marks or broken clips ARE NOT to be reinstalled.
- Store removed parts in a safe manner.
- If a problem occurs during installation, please contact Nissan dealer where product was purchased.

SECTION 1 - OVERVIEW

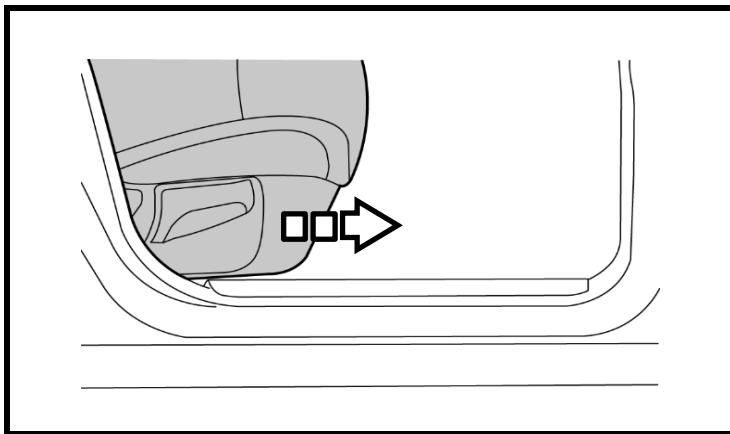
1.1) SYSTEM



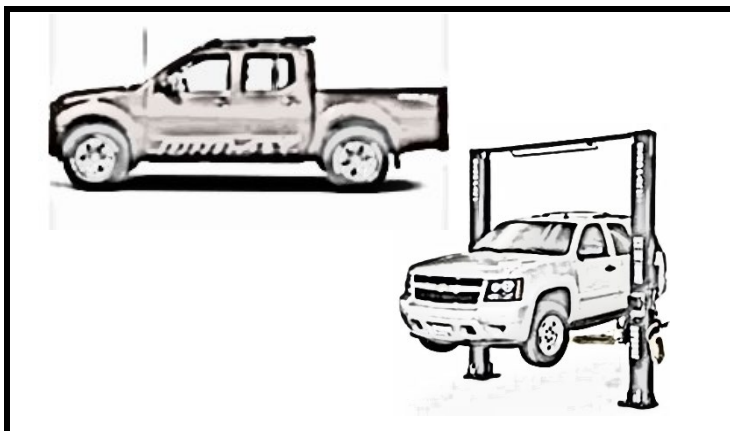
1.2) VEHICLE - ACCESSORY PARTS AND GENERAL WIRE ROUTING



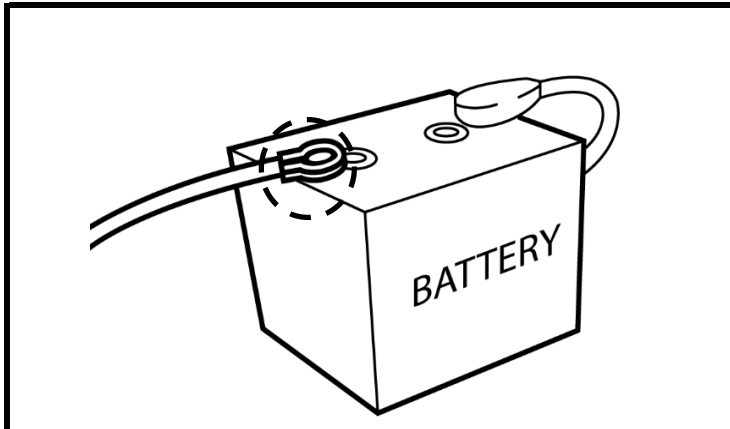
SECTION 2 - VEHICLE PREPARATION



- 2.1) Move both front seats forward.
- a) Move both front seat to the full forward position. Close front doors.



- 2.2) Prepare the vehicle for installation.
- a) Vehicle should be off the hoist to allow the rear doors to fully open for access when installing the interior harness.
 - b) Vehicle should be on a hoist to install the exterior harness.



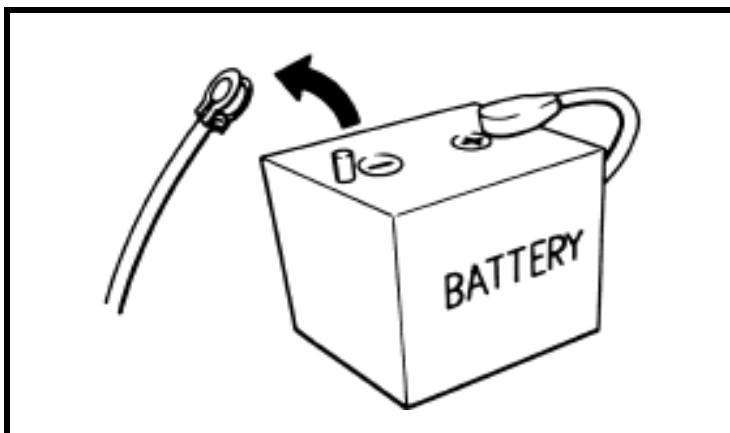
- 2.3) Disconnect battery terminal
- a) Locate negative battery terminal.
 - b) Loosen nut with 10mm socket

Battery Terminal Nut



⚠ CAUTION

• Allow 3 min after key off with doors closed for vehicle power to time out.



- 2.4) Disconnect battery terminal
- a) Lift negative battery terminal off stud.
 - b) Isolate negative battery terminal.

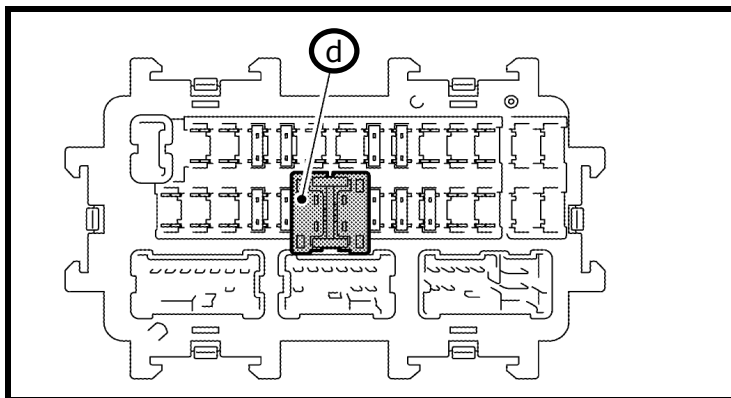
⚠ CAUTION

• Allow 3 min after negative terminal disconnect before separating any electrical connectors.



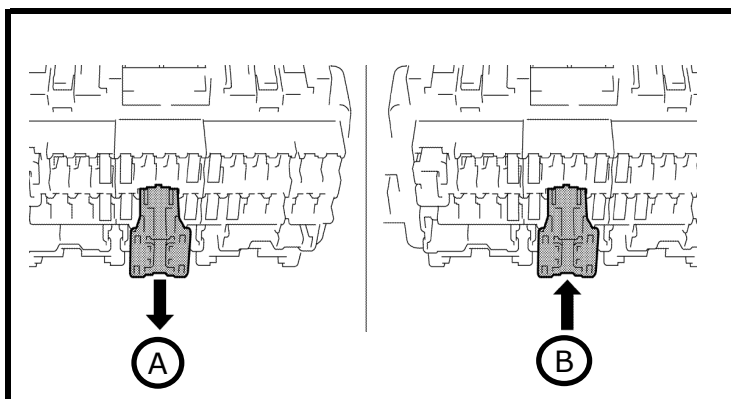
CAUTION

- Always confirm the ignition is in the "OFF" position before changing the E.S.S. position.
- If E.S.S. is not in Customer Mode, there will be a loss of normal vehicle operation, preventing accessory function check.



2.1) Check Extended Storage Switch Position

- Put shift lever in "P" position for A/T and CVT or "1st" for M/T .
- Apply park brake.
- Place ignition in "OFF" mode.
- Locate Extended Storage Switch in cabin fuse block as shown.
- Confirm Extended Storage Switch is in "Customer" (In/Engaged) position.
- If ESS is not In/Engaged, then proceed to step 2.2 .



2.2) Changing ESS Position

- To disengage Customer Mode, pull out in **A** direction as shown.
- To engage Customer Mode, press in **B** direction as shown.

Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

2.3) Record Customer Presets

- Place ignition in "ON" mode.
- Record the customer radio presets and other presets as required.

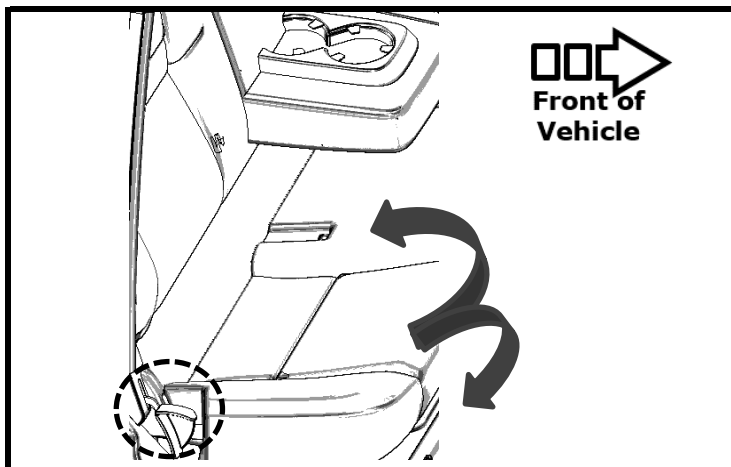
Preset	1	2	3	4	5	6	7	8	9	10

- Place ignition in "OFF" mode.



CAUTION

- The Accessory Service Connector is for use **ONLY** with Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories. Use of this connector with non Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories or failure to follow the installation instructions for said connector being mentioned herein may result in damage to the accessory and/or your vehicle.
- Nissan/Infiniti is not liable for loss or damage due to improper installation or installation of non Genuine or non approved accessories.



3.1) Open the rear passengers door.

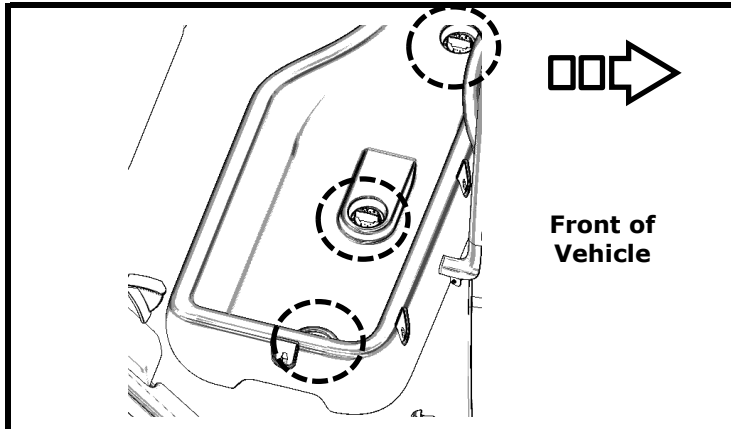
- a) Open door and raise the rear seat cushion by releasing the recliner handle and lifting the seat cushion up.

Seat cushion release handle



CAUTION

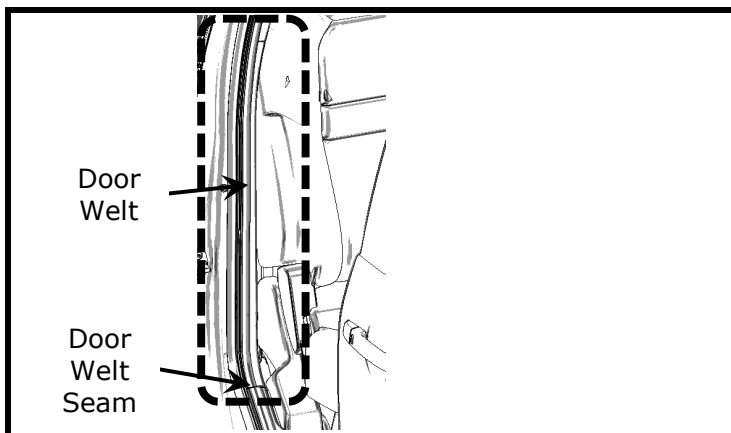
- The handle release operates the same on both rear seats.
- Use these handles as required to unlock to raise the rear seat cushions.
- When either rear seat cushion is lowered the inner latch relocks the seat down.



3.2) Locate and remove the storage bin.

- a) If vehicle has a storage bin under the seat cushion remove it by removing the three thumb screws. Store bin and screws away.
- b) Lower the rear seat back down. This rear seat cushion should be raised and lowered as required for the remaining installation.

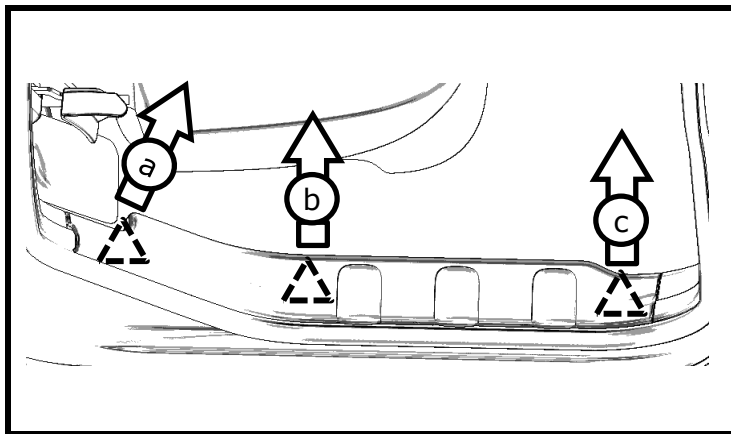
Hand Fastener



3.3) Remove the D-Pillar door welt.

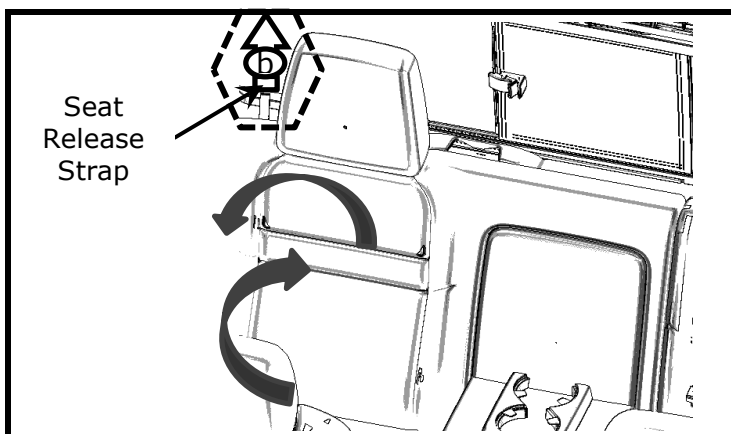
- a) Locate and the right rear door welt.
- b) Remove welt from the door edge between the lower seam at the floor up to the just above the lower inner D-Pillar trim panel.

SECTION 3 - INTERIOR TRIM REMOVAL - REAR, CREW CAB



3.4) Remove the RH rear door kicking plate

e) Store kick plate away.



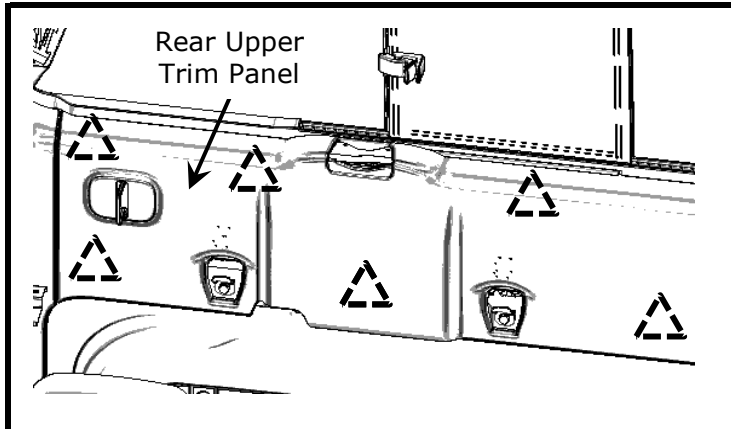
3.5) Fold both rear seat backs down

- a) Locate the right rear seat back latch pull strap, located outboard of the head rest.
- b) Pull strap upward to release the seat back.



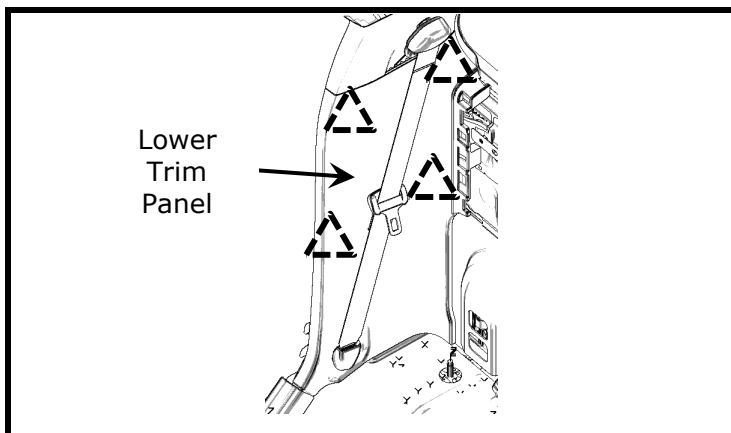
CAUTION

- The strap release operates the same on both rear seats.
- Use these straps as required to unlock to lower the rear seat backs.
- When either rear seat back is lowered the inner latch relocks the seat back when the seat is returned upright.



3.6) Remove the rear upper trim panel

- a) Locate upper rear panel.
- b) Using trim stick release panel clips.
- c) Remove panel completely and loosen center seat belt to allow the panel to get out of the way of the right rear D-Pillar.



3.7) Loosen the outer lower trim panel

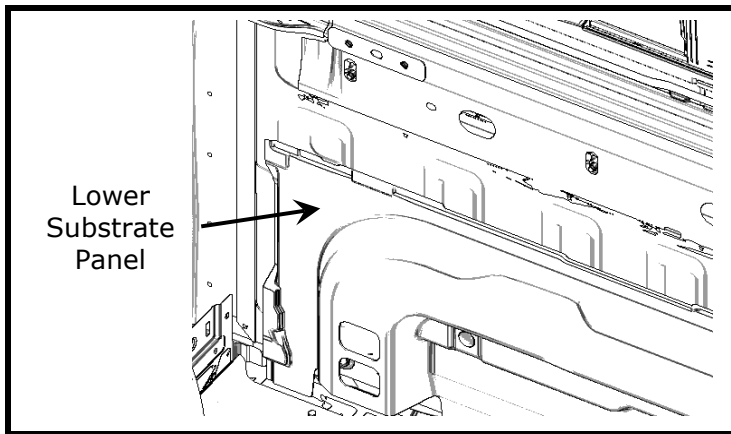
- a) Locate right rear outer lower D-pillar trim panel
- b) Using trim stick release panel clips.
- c) Rotate the loosened panel forward around the lower seat belt to allow the panel to get out of the way of the right rear D-Pillar area.



CAUTION

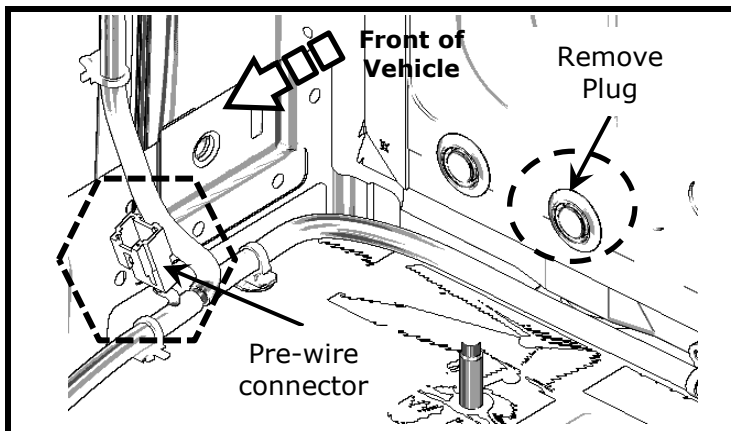
- Do not remove seat belt anchor bolt.

SECTION 3 - INTERIOR TRIM REMOVAL - REAR, CREW CAB



3.8) Loosen lower substrate panel

- a) From under seat locate and loosen the lower substrate panel
- b) Just loosen for install access, do not remove.



3.9) Locate Body Harness prewire connector

- a) From under seat locate the 3-PIN prewire connector and release the tear tape.
- b) Remove and discard the inboard body plug.



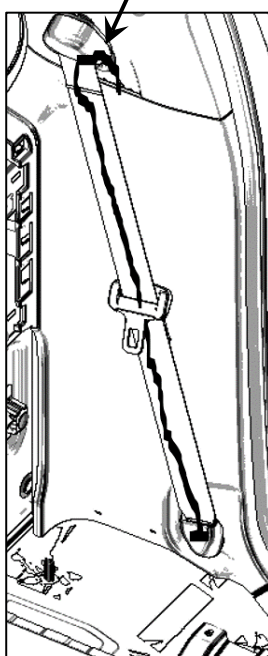
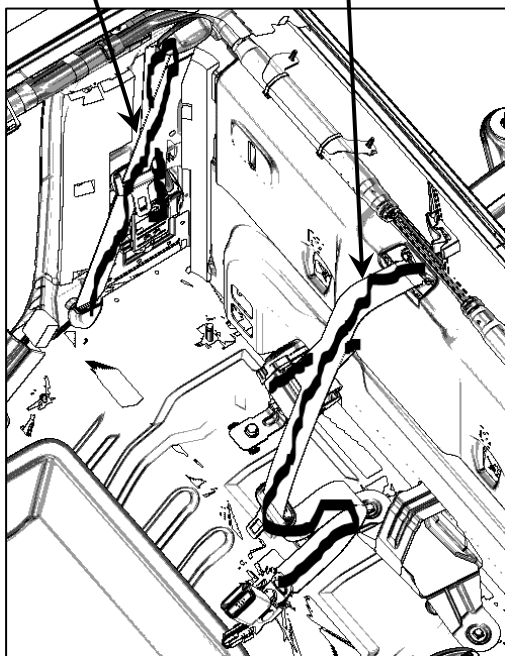
CAUTION

- Prewired body harness connector will lay along side the body harness towards the rear of the vehicle.
- Notice there are two body plugs in this area. Only use the inboard most plug hole for this accessory installation.

Right side seat belt

Center seat belt

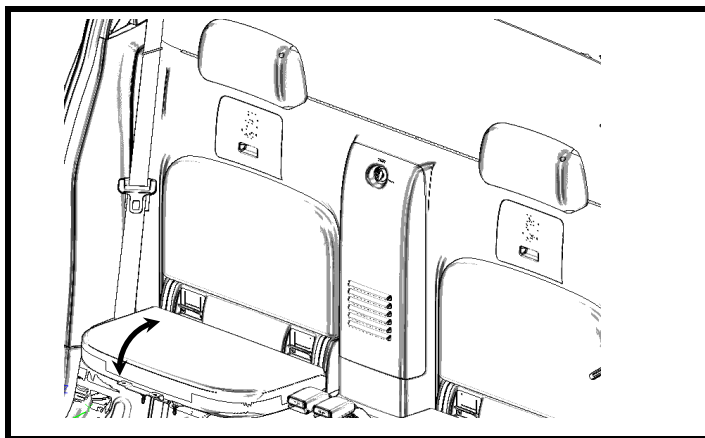
Left side seat belt



WARNING

- **Do not** cable tie or tape around any rear seat belts that are also located in this area.
- **Do not** remove seat belt anchor bolt.
- Only cable tie between the relay harness and the body harness.
- Only tape between the vehicle body (sheet metal) and the interior or exterior harnesses.

SECTION 4 - INTERIOR TRIM REMOVAL - REAR, KING CAB



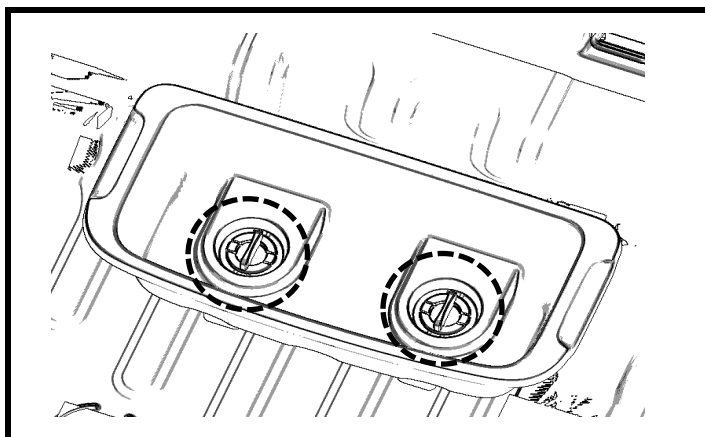
- 4.1) Open the rear passengers door.
- Open door and raise the right rear seat cushion and raise or lower as necessary for this installation.

Seat cushion operation



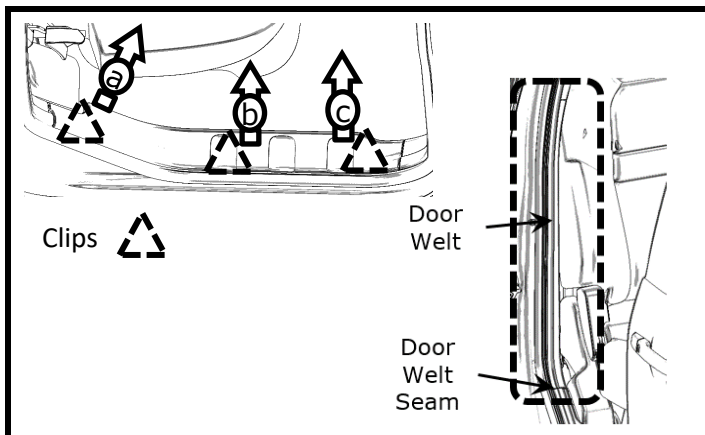
CAUTION

- The lower seat cushion raises and lowers by rotating it as shown.
- When either rear seat cushion is lowered the inner latch relocks the seat down.
- Operate the seat cushion here to understand how it functions for this installation raising and lowering the seat

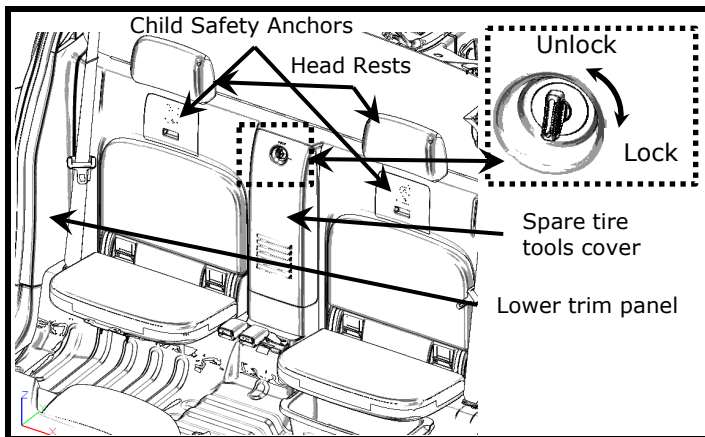


- 4.2) Locate and remove the storage bin.
- If vehicle has a storage bin under the right rear seat cushion remove it by removing the two thumb screws. Store bin and screws.
 - Lower the rear seat back down. This rear seat cushion should be raised and lowered as required for the remaining installation.

Hand Fastener



- 4.3) Remove the D-Pillar door welt.
- Locate RH inner kick plate assembly.
 - Pull up at forward end using trim removal tool to disengage clip to remove.
 - Pull up at center with hands to disengage first two clips.
 - Pull up at rearward end with both hands to disengage all remaining clips.
 - Locate and the right rear door welt.
 - Remove welt from the door edge between the lower seam at the floor up to the just above the lower inner D-Pillar trim panel.



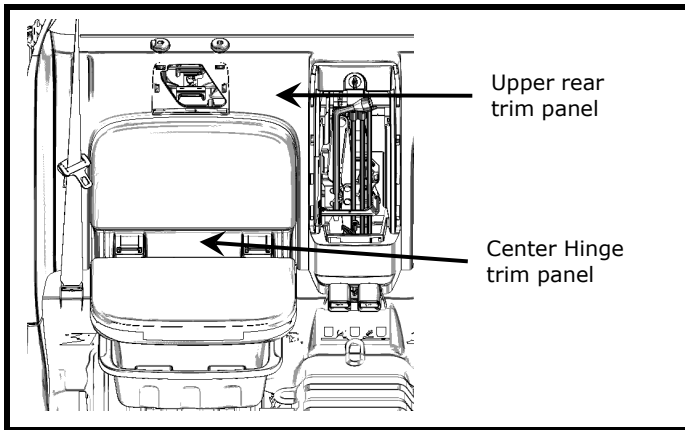
- 4.4) Remove the following interior parts
- Both head rests
 - Open and remove the spare tire tools cover
 - Right rear lower D-Pillar interior trim panel
 - Child safety seat anchor trim panels



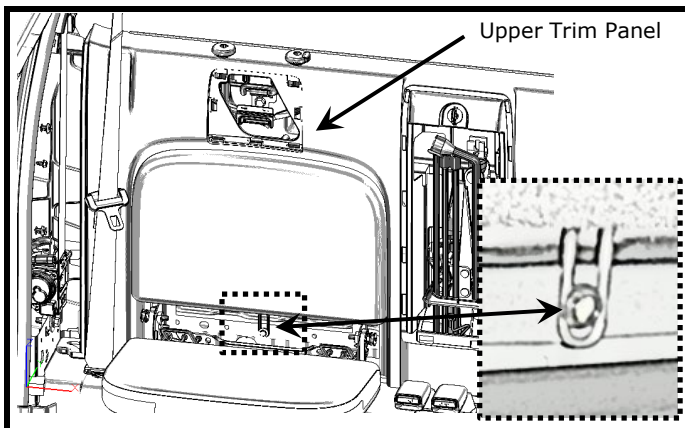
CAUTION

Do not remove or loosen the metal child safety seat anchors.

SECTION 4 - INTERIOR TRIM REMOVAL - REAR, KING CAB



- 4.5) Remove hinge trim panel
- Locate the center hinge panel
 - Remove with trim tool



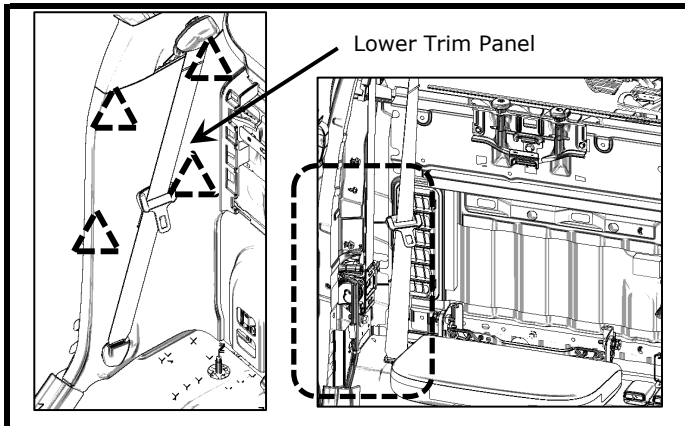
- 4.6) Remove the seat back M6 bolt
- Locate the center hinge panel
 - Remove with M10 socket

CAUTION

- Be sure to retorque this seat back M6 flange bolt to:

9 Nm +/- 1.8 Nm
= 80 in-lbs +/- 15 in-lbs
= 6.6 ft-lbs +/- 1.3 ft-lbs

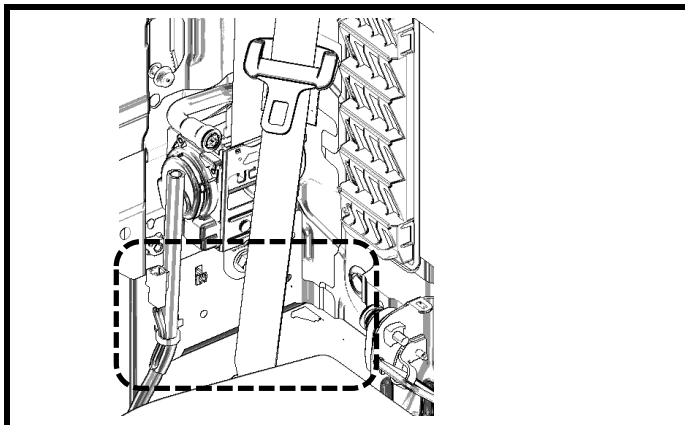
- 4.7) Loosen Upper and Lower trim panels
- Use trim stick tool to release panel clips.
 - Locate and open the right rear side of the upper trim panel for access with trim tool. Do not fully remove the panel.
 - Locate and open the right rear outer lower D-pillar trim panel. Do not remove the panel.
 - Rotate the loosened panels forward around the lower seat belt to allow the panel to get out of the way of the right rear D-Pillar area. You need access to the dashed line circled area.



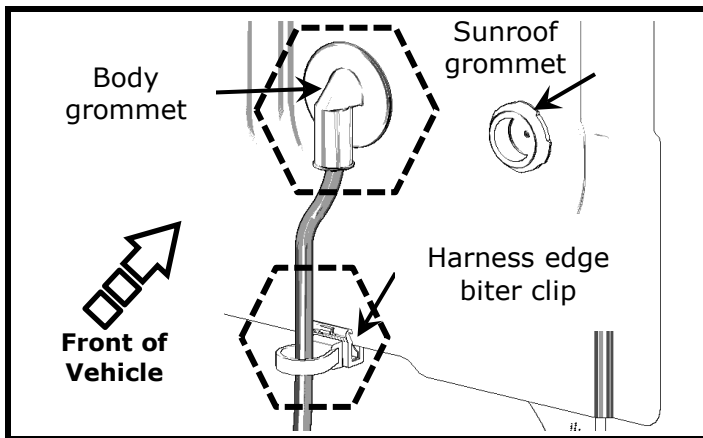
- 4.8) Access for electronic tailgate kit harness install
- Behind the lower trim panel in the corner of cabin as circled at left.

WARNING

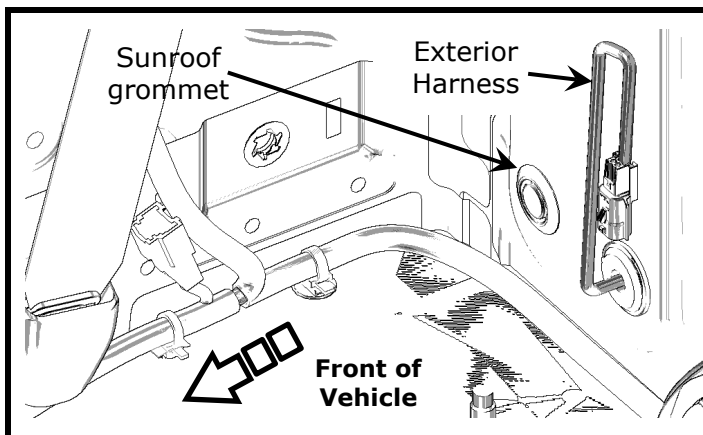
- **Do not** cable tie or tape around any seat belts that are also located in this area.
- **Do not** remove seat belt anchor bolt.
- Only cable tie between accessory harnesses and the body harness.
- Only tape between the vehicle body (sheet metal) and the interior or exterior harnesses.



SECTION 5 - HARNESS INSTALLATIONS - CREW CAB



- 5.1) Partially install exterior harness from underbody
 - a) Locate the 2-PIN inline connector nearest to both the attached grommet and edge biter clip on the exterior harness.
 - b) Push the 2_PIN connector into the cabin through the rear cabin hole.
 - c) Seat the exterior harness grommet into the cabin hole from underneath the vehicle.
 - d) Install the exterior harness metal edge biter clip onto the rear floor metal edge as shown.
 - e) Tuck and secure the remaining exterior harness up so that it is not damaged.



CAUTION

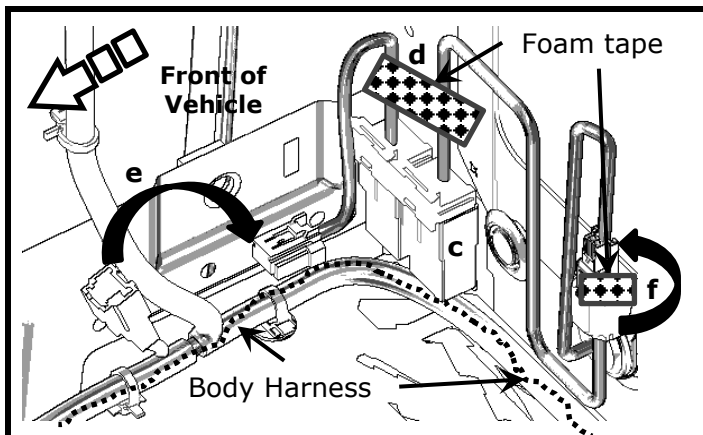
- Be sure that the grommet is fully inserted from outside to inside the vehicle.
- The exterior harness will be completed after the interior harness is finished.

- 5.2) Finish exterior harness installation inside cabin
 - a) Locate the 2-PIN connector from inside the cabin, plan to route as shown.

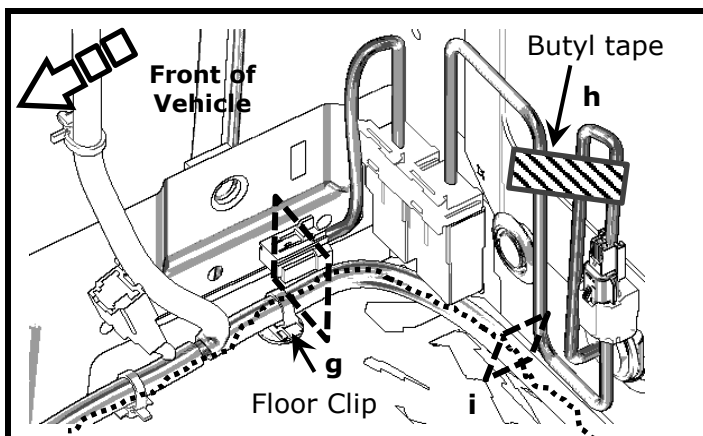


WARNING

- **Do not** cable tie or tape around any seat belts that are also located in this area.



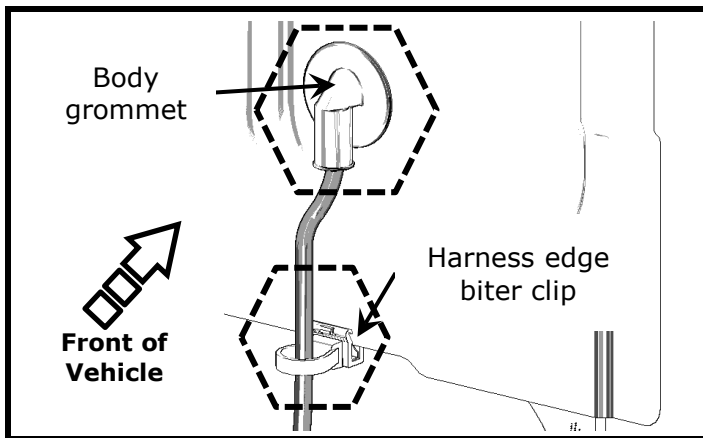
- 5.3) Install interior harness with relays
 - a) Lower seat back during this step.
 - b) Locate interior harness with relays in kit.
 - c) Adhere bundled relays with pre installed double sided 3M tape strip onto the back cabin sheet metal in the lower most corner of the cab near the floor as shown.
 - d) Route and foam tape the wires out from the relay as shown pointing upward as shown.
 - e) Locate 3-PIN prewire connector and plug into vehicle connector from the body harness.
 - f) Locate 2-PIN connector on interior harness and plug into 2-PIN connector from exterior harness wrap connectors with foam tape.
 - g) Add cable strap over 3-PIN connectors and body harness near to harness clip in floor.
 - h) Add butyl tape to secure wiring vertically as shown.
 - i) Add cable strap to harness and strap onto the body harness near the floor. This may be easiest to add with seats raised.
 - h) Cut all cable tie ends off leaving ~ 3mm long tails. Discard unused cable tie sections.



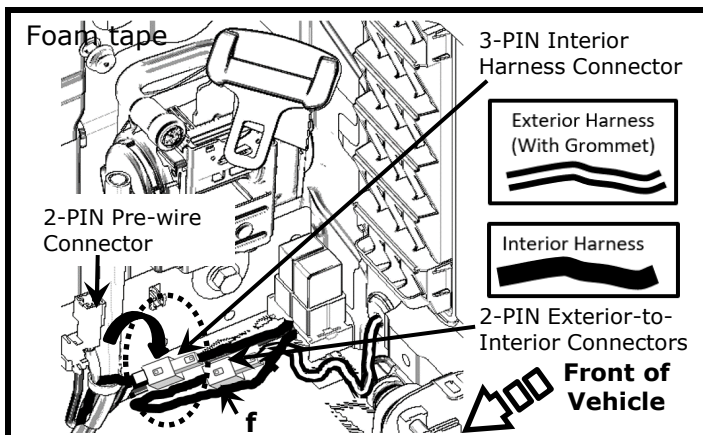
Cable Ties (Steps g & i)



SECTION 5 - HARNESS INSTALLATIONS - KING CAB



- 5.1) Partially install exterior harness from underbody
 - a) Locate the 2-PIN inline connector nearest to both the attached grommet and edge biter clip on the exterior harness.
 - b) Push the 2_PIN connector into the cabin through the rear cabin hole.
 - c) Seat the exterior harness grommet into the cabin hole from underneath the vehicle.
 - d) Install the exterior harness metal edge biter clip onto the rear floor metal edge as shown.
 - e) Tuck and secure the remaining exterior harness up so that it is not damaged.



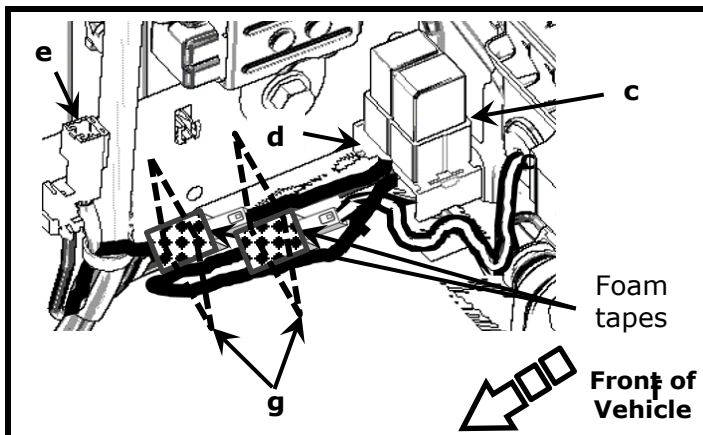
CAUTION

- Be sure that the grommet is fully inserted from outside to inside the vehicle.
- The exterior harness will be completed after the interior harness is finished.

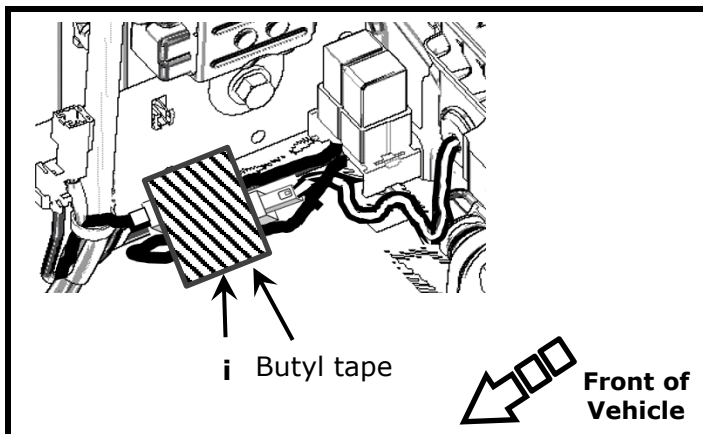
- 5.2) Finish exterior harness installation inside cabin
 - a) Locate the 2-PIN pre-wire connector from the body harness break tape and route as shown.

WARNING

- **Do not** cable tie or tape around any seat belts that are also located in this area.



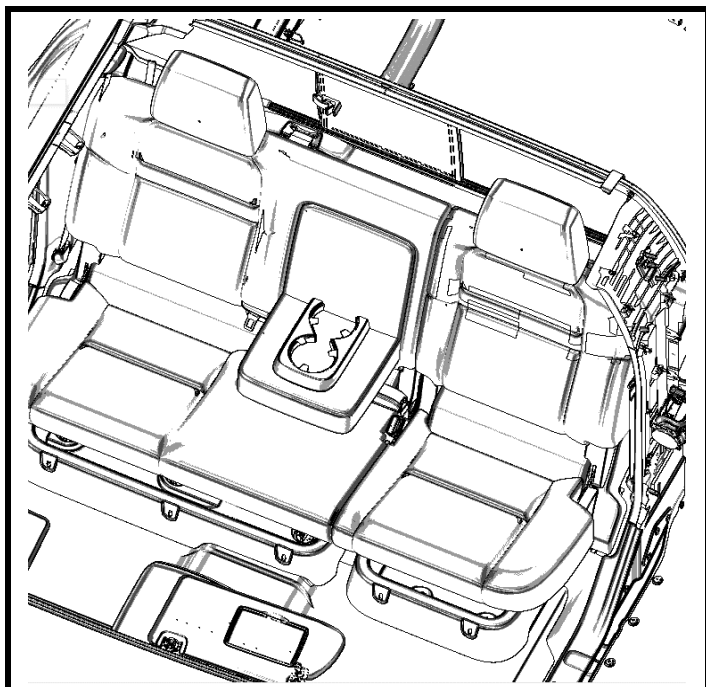
- 5.3) Install interior harness with relays
 - a) Lower seat cushion during this step.
 - b) Locate interior harness with relays in kit.
 - c) Adhere bundled relays with pre installed double sided 3M tape strip onto the back cabin sheet metal in the lower most corner of the cab near the floor as shown.
 - d) Route and the wires out from the relay pointing downward as shown.
 - e) Locate 3-PIN prewire connector and plug into pre-wire connector from body harness.
 - f) Locate 2-PIN connector on interior harness and plug into 2-PIN connector from exterior harness wrap connectors with foam tape.
 - g) Add cable straps over both connectors and tape-down harnesses as shown.
 - h) Cut all cable tie ends off leaving ~ 3mm long tails. Discard unused cable tie sections.
 - i) Add butyl tape to secure wiring onto the corner of the floor as shown.



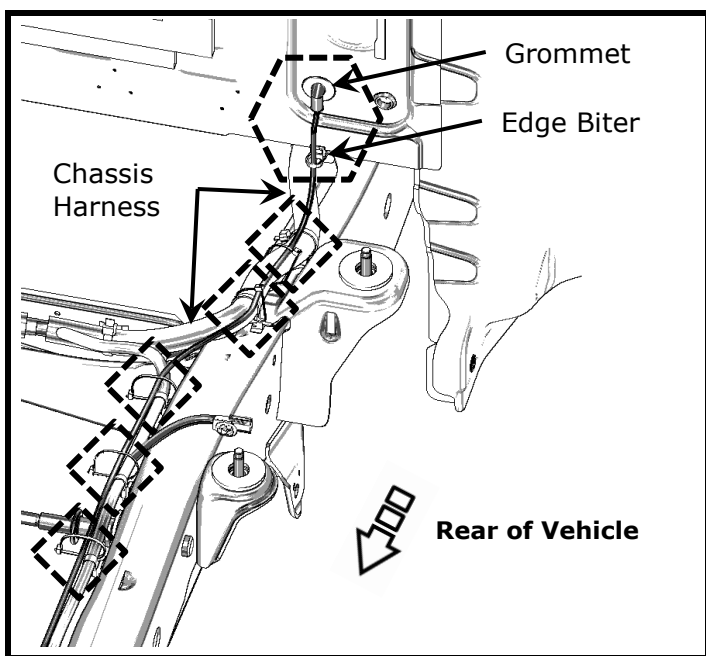
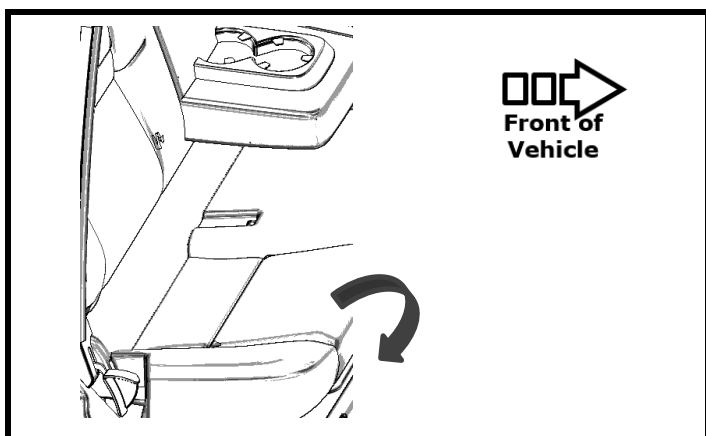
Cable Ties (Steps g & i)



SECTION 5 - HARNESS INSTALLATIONS - CREW CAB & KING CAB



- 5.4) Reinstall all rear seat area interior trim items:
- a) Relocate the lower substrate panel.
(See step 3.8-Crew Cab)
Relocate the center hinge panel.
(See step 4.5-King Cab)
 - b) Reinstall the seat back, head rests, spare tire tools, child anchor trim
(See steps 4.3-and-4.4 for King Cab)
 - c) Reinstall the right rear outer lower D-pillar trim panel.
(See step 3.7-Crew Cab -or- 4.3-King Cab)
 - d) Reinstall the rear upper trim panel.
(See step 3.6-Crew Cab-or-4.3-King Cab)
 - e) Reinstall the RH rear door kicking plate.
(See step 3.4-Crew Cab-or-4.3-King Cab)
 - f) Reinstall the D-Pillar door welt.
(See step 3.3-Crew Cab-or-4.3-King Cab)
 - g) Reinstall the storage bin. Hand tighten screws.
(See step 3.2-Crew Cab-or-4.2-King Cab)



WARNING

- Please double check that all seat belts are functioning properly when fully extended and retracted.

- 5.5) Return both rear seats.
- a) Leave both rear seat backs up.
 - b) Leave both rear seat cushions down.
 - b) Raise vehicle onto hoist.

- 5.6) Exterior harness installation
- a) Finish routing the exterior harness from step 5.1-e, and using figure 5.6 at left.
 - b) Route exterior harness from edge biter clip slightly inboard and down to route along side the chassis harness.
 - c) Route exterior harness from edge biter clip slightly inboard and down to route along side the vehicle chassis harness.
 - c) Route exterior harness and cable strap with the 8" cable ties in the kit. Strapping to the chassis harness roughly every 6" near to the chassis harness frame rail harness clips.

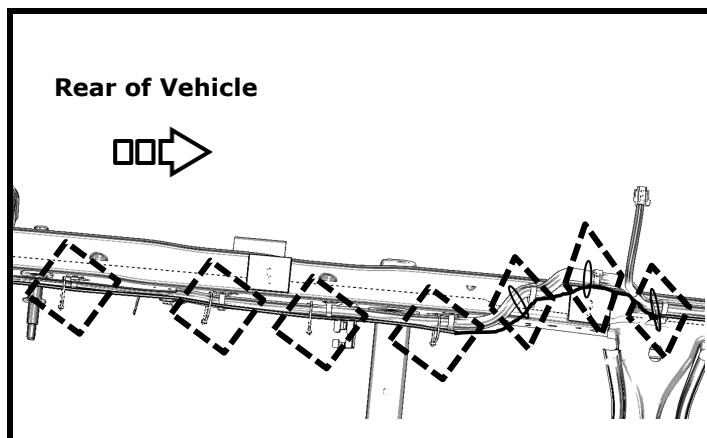
Cable Ties



CAUTION

- Cut all cable tie ends leaving ~3mm tails.

SECTION 5 - HARNESS INSTALLATIONS - CREW CAB & KING CAB



5.7) Exterior harness installation (continued)

- a) Continue routing the exterior harness and cable strap with the 8" cable ties in the kit. Strapping to the chassis harness roughly every 6" near to the chassis harness frame rail harness clips as shown.

Cable Ties

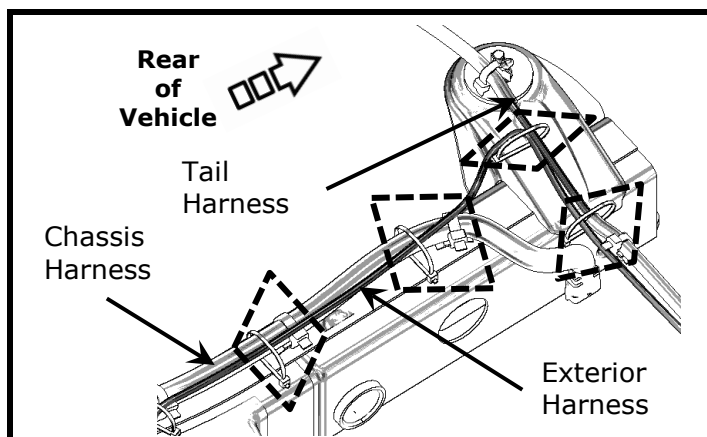


CAUTION

- Be sure to route harness rearward from inside the frame rail to the top around the muffler due to heat.
- Cut all cable tie ends leaving ~3mm tails.

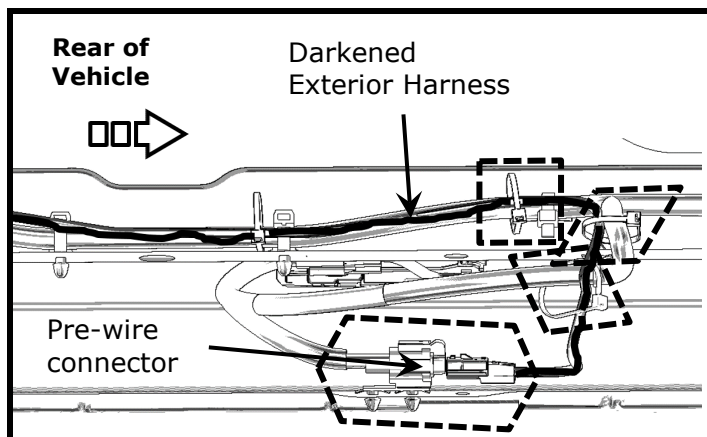
5.8) Exterior harness installation (continued)

- a) Continue routing the exterior harness and cable strap with the 8" cable ties in the kit. Strapping to the chassis harness roughly every 6" near to the chassis harness frame rail harness clips as shown.
- b) Continue routing the exterior harness and cable strap with the 8" cable ties in the kit. Strapping to the tail harness for the last two in this step as shown.



5.9) Exterior harness installation (continued)

- a) Locate the pre-wire connector on the tail harness. This connector is plugged and attached to the lower bed metal lip below the center of the tailgate as shown.
- b) Remove and discard the sealed blocking dummy plug connector inside the pre-wired connector.
- c) Connect exterior harness connector into this pre-wire connector.
- d) Cable tie the first three straps to the tail harness as shown.



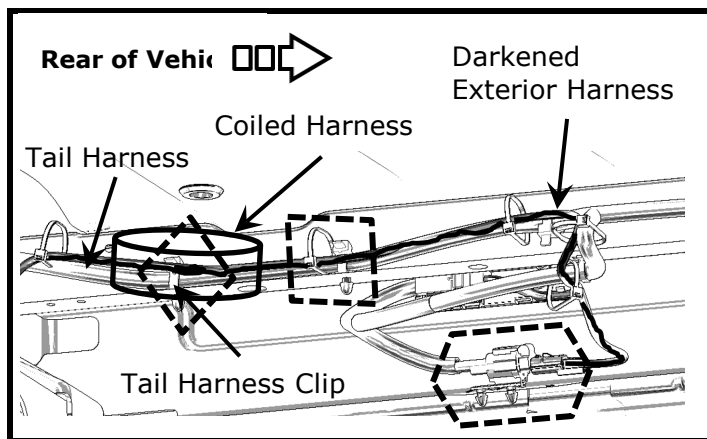
5.10) Exterior harness installation (continued)

- a) Coil all remaining exterior harness length into an eight inch coil located as shown.
- b) Using an 12" cable tie, strap the center of the coiled up excess length to secure bundle near to the body mounted tail harness clip.

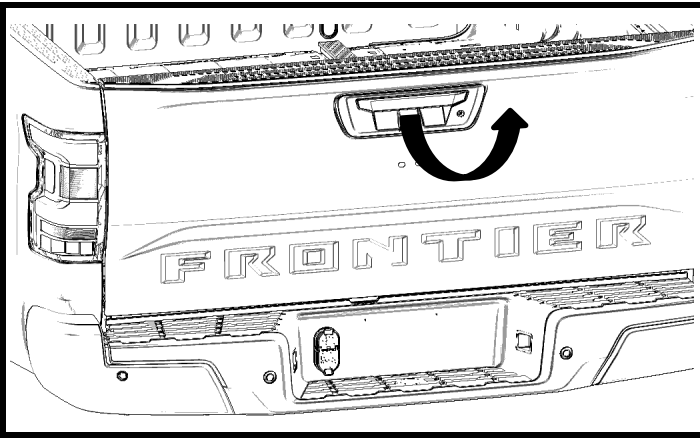


CAUTION

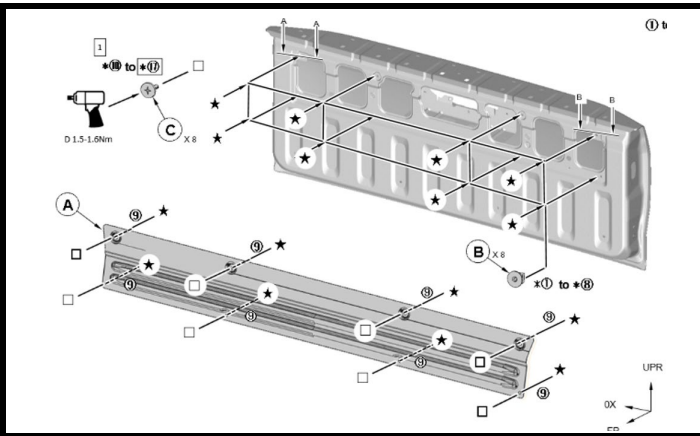
- There is only one tailgate kit and the exterior harness is made to fit both crew cab and king cab vehicles. All excess exterior harness length needs to be secured as described.



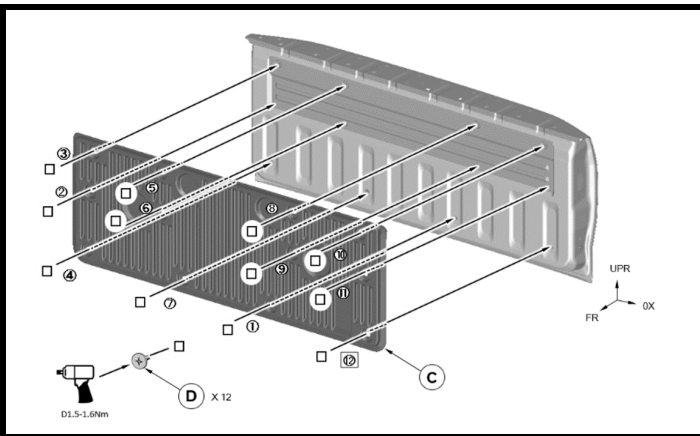
SECTION 6 - Install Tailgate Actuator



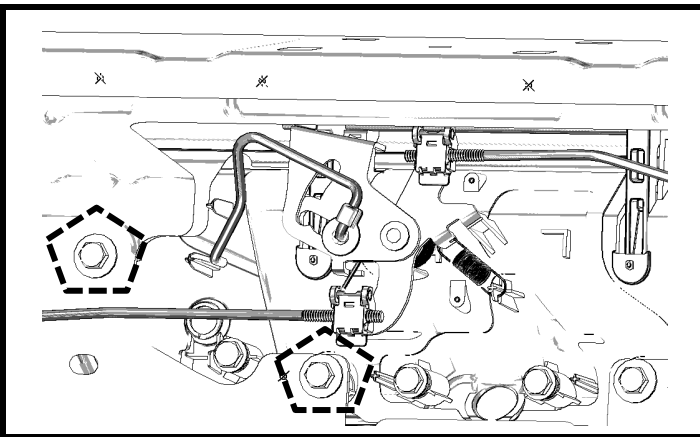
- 6.1) Prepare the tailgate.
a) Release and lower the tailgate.



- 6.2) Remove standard tailgate rear inner cover
a) Locate and remove the eight screws and the metal rear inner tailgate cover.
b) Store away all the screws and the metal rear inner tailgate cover.

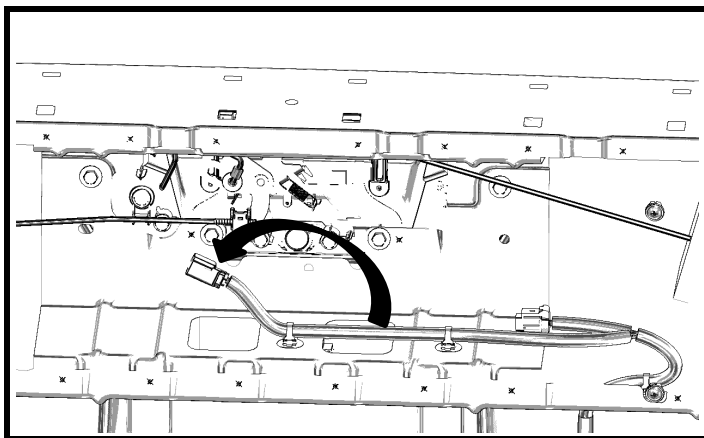


- 6.3) Remove tailgate liner (if attached to inner gate)
a) If the tailgate has a plastic tailgate liner. Locate and remove all the twelve screws, plastic tailgate liner and the metal rear inner tailgate cover.
b) Store away all the screws and the metal rear inner tailgate cover and plastic liner.



- 6.4) Rear handle bolts
a) Using M10 socket. Locate and remove the two rear handle bolts as shown.

SECTION 6 - HARNESS INSTALLATIONS (continued)

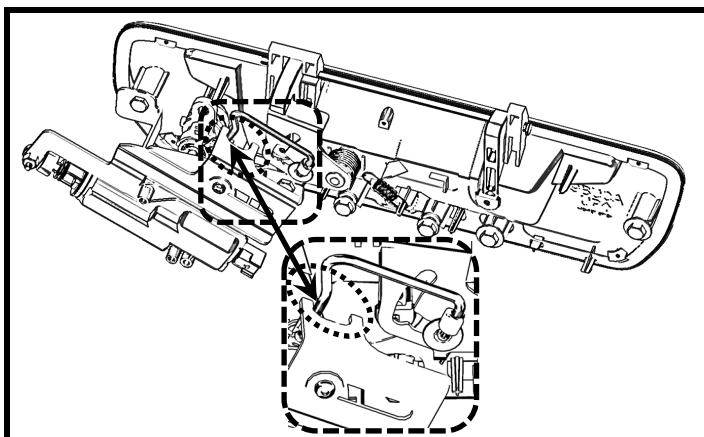


- 6.5) Locate prewired tailgate connector
- a) Locate the 2-PIN prewire connector is taped to the tailgate harness in the circled area.
 - b) Remove the tape holding the actuator connector to the tailgate harness.



CAUTION

- Unwrap the tape-or-carefully cut it away without damaging the tailgate harness wires.

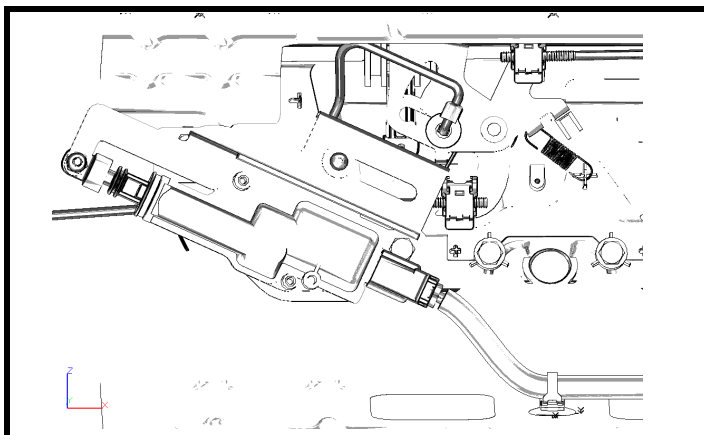


- 6.6) Install actuator assembly
- a) Install actuator assembly so that the U-shaped feature captures the lock link from the key cylinder as show.
 - b) Reinstall the two M6 rear handle bolts as shown using a M10 socket with extension. Torque the bolts to between (5.1 Nm-to-6.5 Nm).
 - c) Manually move the actuator plunger in and out to allow best access to the bolt heads.

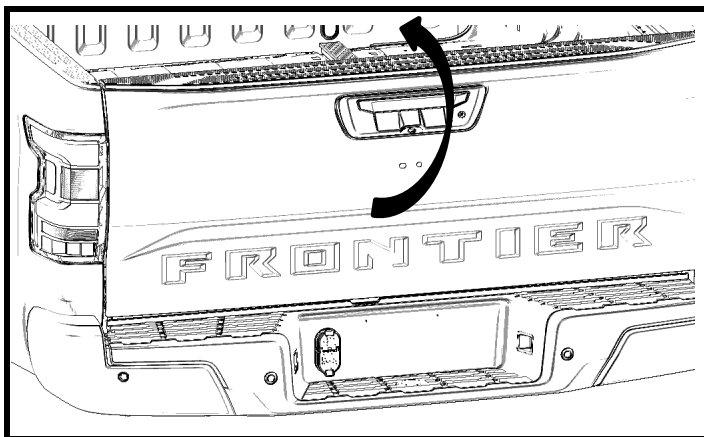


CAUTION

- Ensure that the U-shaped feature on the actuator bracket captures the key lock linkage rod as shown in the explosion view



- 6.7) Install pre-wire connector into the actuator
- a) Install 2-PIN tailgate pre-wire connector into the actuator, with a push-click-pull process.
 - b) Loosely reconnect the vehicle 12V battery and check that the tailgate lock operates with the key fob and door lock switch.
 - c) Reinstall the metal rear inner cover with the eight screws. Torque the eight screws to between (1.5 Nm-to-1.6 Nm). Review step
 - or- d) Reinstall the plastic tailgate liner and metal rear inner cover with the twelve screws. Torque all screws to between (1.5 Nm-to-1.6 Nm). Review step 6.3



- 6.8) Finished with assembly
- a) Close the tailgate.



CAUTION

Take care not to scratch or damage any component during the removal or re-installation process. Trim pieces found to have witness marks or broken clips should be replaced with new parts.

A-1.2) Complete checklist:

- ☐ Tighten Negative battery terminal nut to 5.0 N.m (0.51 kg-m, 44 in-lb)
- ☐ Functional check system
 - ☐ Press key fob to lock and check tailgate is locked.
 - ☐ Press key fob to unlock all doors and check that tailgate is unlocked.
 - ☐ If vehicle is equipped with rear view camera. Check rear camera is functional.
- ☐ Operate all rear seat seatbelts to ensure they all extend and retract without any concerns and confirm that they are not restricted by this installation. See Step 3.9
- ☐ Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly the door sill weather strip.
- ☐ Verify all windows and sunroof (if equipped), one touch operation and perform the reset procedure if necessary. Refer to the vehicle Service Manual for more details.
- ☐ Re-program radio presets and other vehicle settings to the recorded settings if necessary.
- ☐ If this vehicle will be returned to a dealer lot or showroom for an extended period of time, be sure the Extended Storage Switch is placed in the Transit position. See step 2.2
- ☐ Remove all tools, templates, and other debris from interior of vehicle.
- ☐ Verify vehicle headliner, seat, steering wheel, center console, carpet, etc. are not soiled.
- ☐ Verify interior and exterior are not damaged.

A.1) Figure below applies to the Trailer Tow harness wiring connected to the Frontier.

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