

TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 25TA12

SECOND ROW SEAT RAIL REPLACEMENT

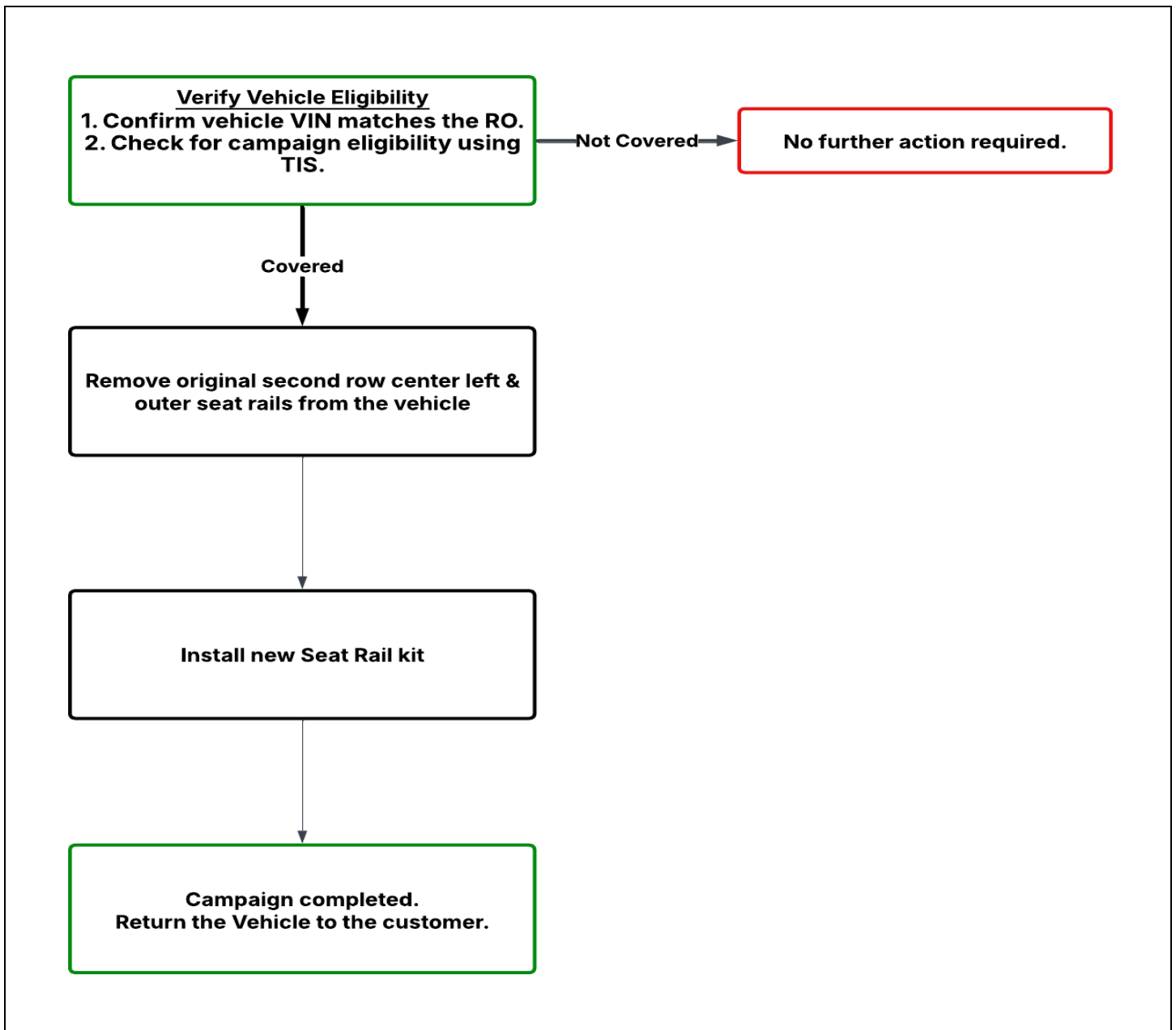
CERTAIN 8 PASSENGER 2025 MODEL YEAR SIENNA

The repair quality of covered vehicles is extremely important to Toyota . All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course “Safety Recall and Service Campaign Essentials”. To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently have completed all of the following courses:

- TIC206B Electrical Repair 2

It is the dealership’s responsibility to select technicians that have completed the above courses to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

Note: TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity
04005-41308	GASKET, EXHAUST PIPE	1
04005-41208	TRACK ASSY, SEAT SET	1*

*The kit above includes the following parts:

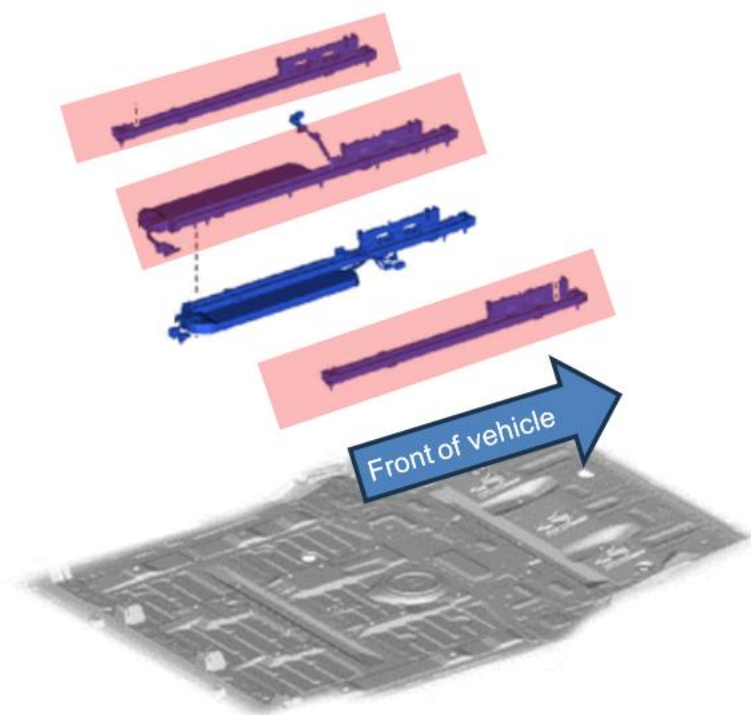
Part Number	Part Description	Quantity
72190-08240	TRACK ASSY, NO.2 SEAT, LH	1
72170-08100	TRACK ASSY, RR SEAT, OUTER LH	1
72160-08110	TRACK ASSY, RR SEAT, OUTER RH	1

B. TOOLS & EQUIPMENT

• Techstream	• Standard Hand Tools	• Torque Wrench
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IV. BACKGROUND

The subject vehicles contain second-row seats that are mounted on seat rails that may have been improperly welded



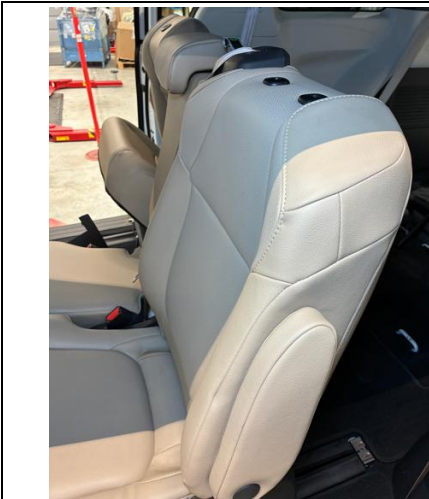
V. WORK PROCEDURE



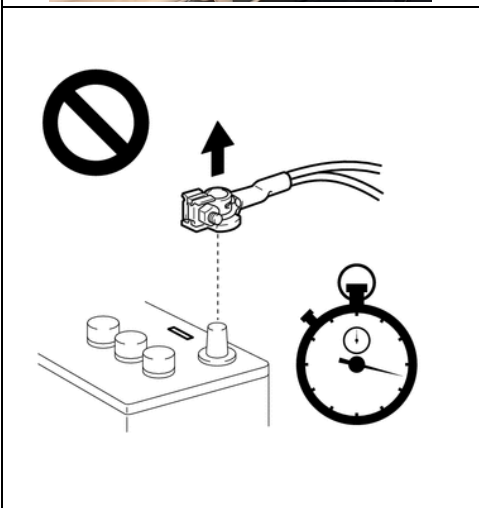
1. PREPARE INTERIOR FOR REPAIR

- a. Adjust the front seats to their forward-most positions.
- b. Adjust the recline setting to its upward position.
- c. Install fender covers onto the sliding door entrances.
- d. Stage a moving blanket to place removed seats and interior panels.

- e. Stow away the 3rd row seats.

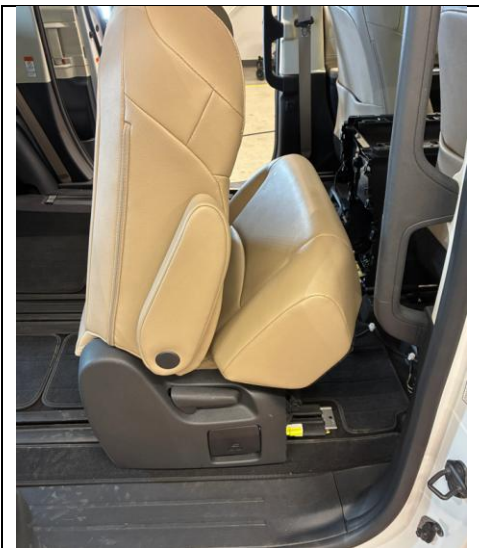


- f. Remove the 2nd row seat headrests and place them in a safe area.



2. REMOVE THE NEGATIVE BATTERY TERMINAL.

- a. Remove the negative battery terminal and wait at least 60 seconds after disconnecting the cable from the negative (-) terminal before disconnecting any airbag connectors.

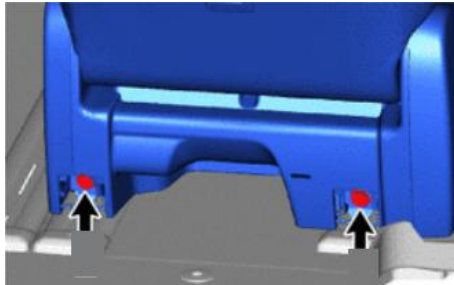


3. REMOVE THE PASSENGER SIDE 2ND ROW SEAT

- a. Adjust the passenger side 2nd row seat to its forward-most position.



b. Open the (2) passenger side rear bolt access covers.

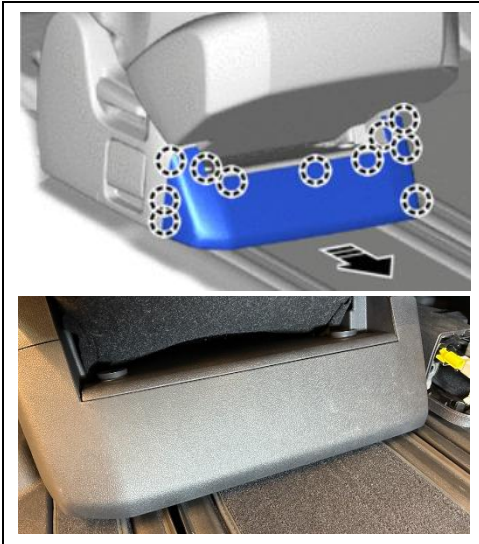


c. Remove the (2) bolts on the rear side of the passenger side rear No. 1 seat assembly.



d. Slide the 2nd row passenger seat to its rearward-most position.





e. Remove the seat cushion lower shield by pulling forward to disengage the clips.

f. Disconnect the yellow rear seat airbag assembly connector under the passenger side rear No. 1 seat assembly

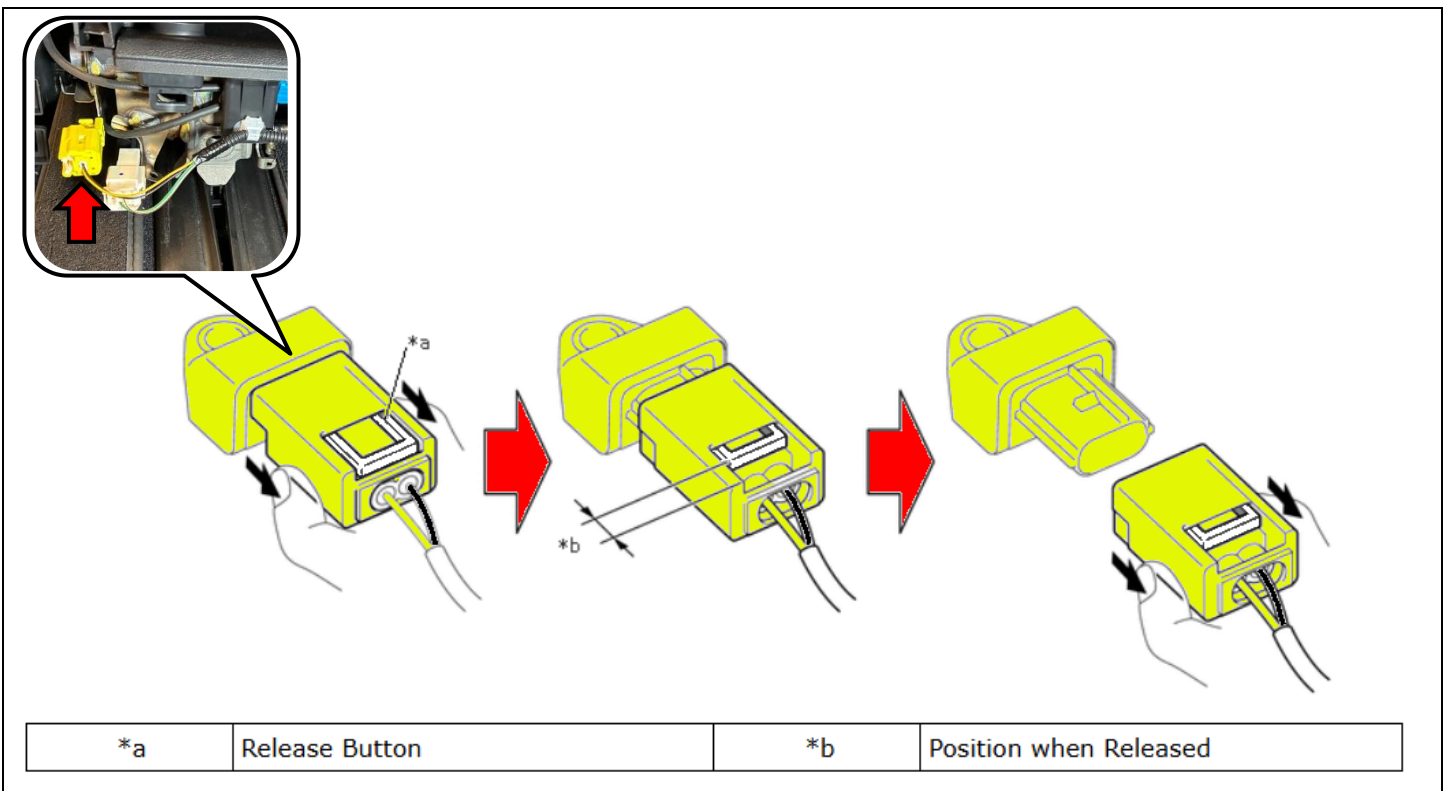
I. Push down the release button and slide the sides of the connector in the direction shown by the arrows in the illustration below. **(At this time, the connector cannot be disconnected yet.)**

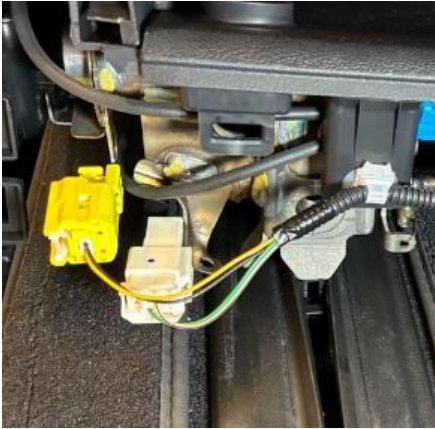
HINT: Check that the position of the release button is as shown in the illustration below.

II. Push down the release button and slide the connector again to disconnect the airbag connector.

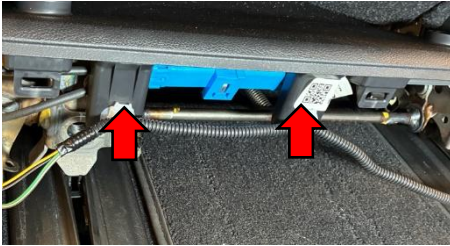
NOTE:

- When disconnecting any airbag connector, take care not to damage the airbag wire harness.
- Pushing down on the top of the connector will prevent the lock from being released, so hold the sides of the connector.





- g. Disconnect the white connector.
- h. Detach the (2) harness clips from the seat assembly.



- i. Remove the (2) bolts on the front side of the passenger side rear No. 1 seat assembly.

NOTE: Be sure not to damage the airbag connector or harness when removing the seat bolt.



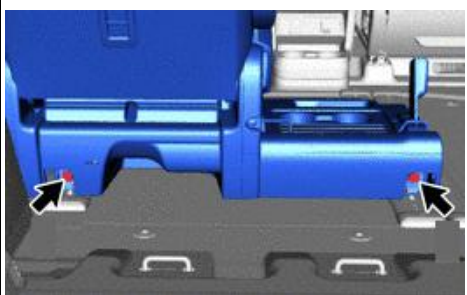


4. REMOVE THE DRIVER SIDE 2ND ROW SEAT

a. Adjust the driver side 2nd row seat to its forward-most position.



b. Open the (2) driver side rear bolt access covers.

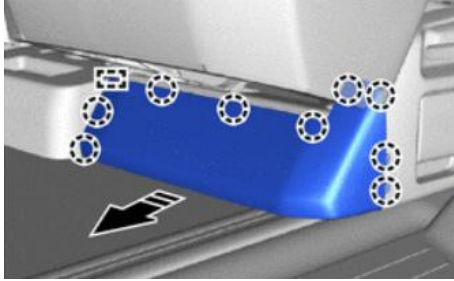


c. Remove the (2) bolts on the rear side of the driver side rear No. 1 seat assembly.

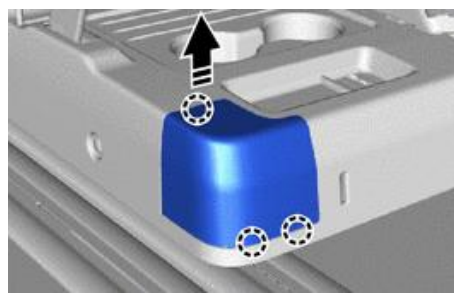




d. Slide the 2nd row driver's seat to its rearward-most position.



e. Remove the seat cushion lower shield by pulling forward to disengage the clips.



f. Remove the seat cushion center shield by pulling up to disengage the clips.



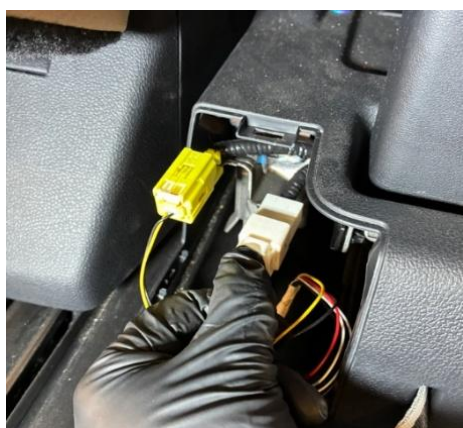
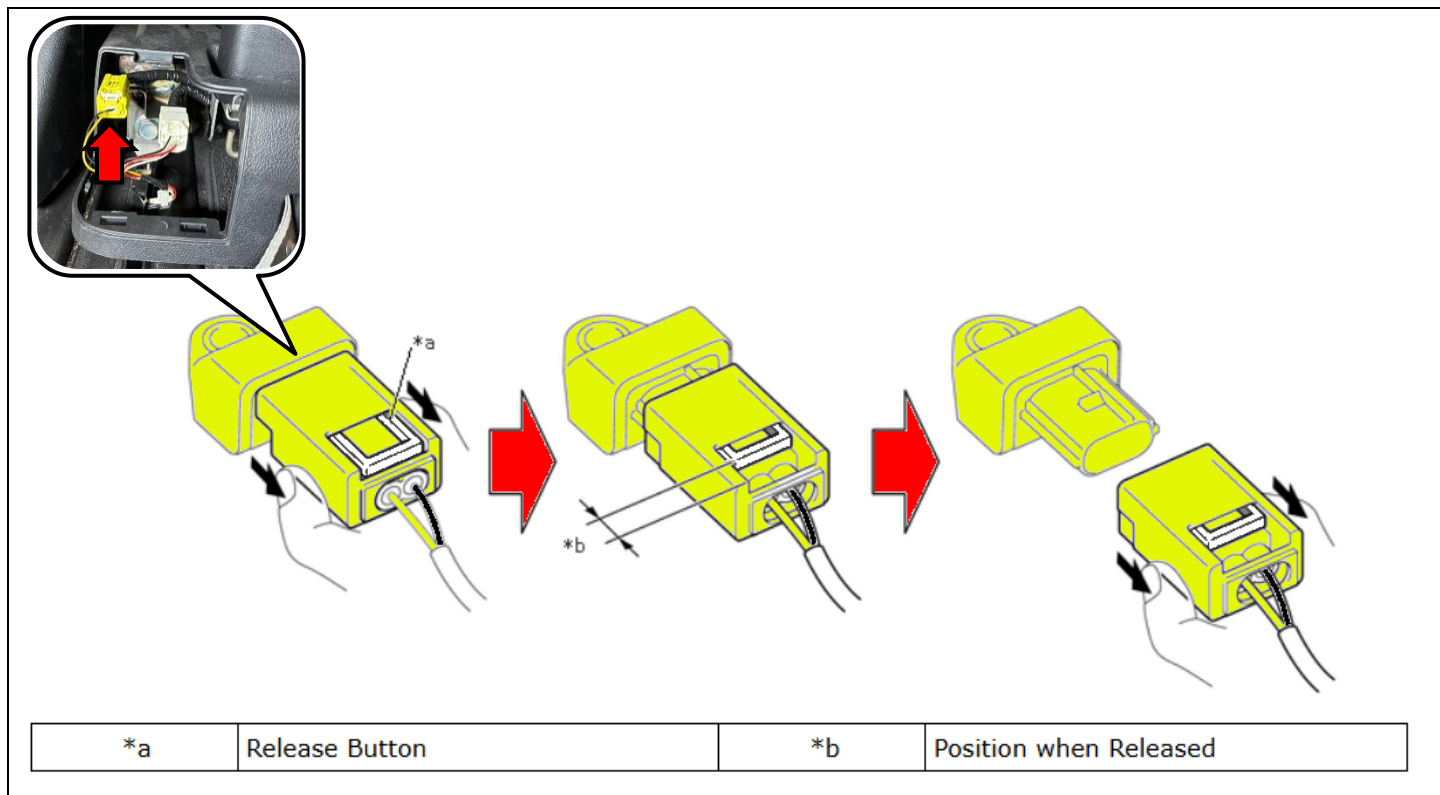
- g. Disconnect the yellow rear seat airbag assembly connector under the driver side rear No. 1 seat assembly
- Push down the release button and slide the sides of the connector in the direction shown by the arrows in the illustration below. **(At this time, the connector cannot be disconnected yet.)**

HINT: Check that the position of the release button is as shown in the illustration below.

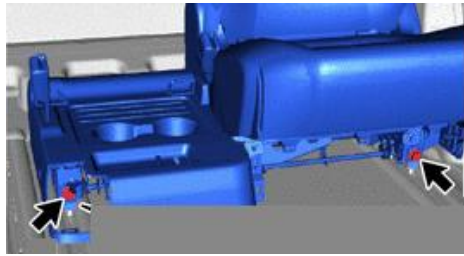
- Push down the release button and slide the connector again to disconnect the airbag connector.

NOTE:

- When disconnecting any airbag connector, take care not to damage the airbag wire harness.
- Pushing down on the top of the connector will prevent the lock from being released, so hold the sides of the connector.

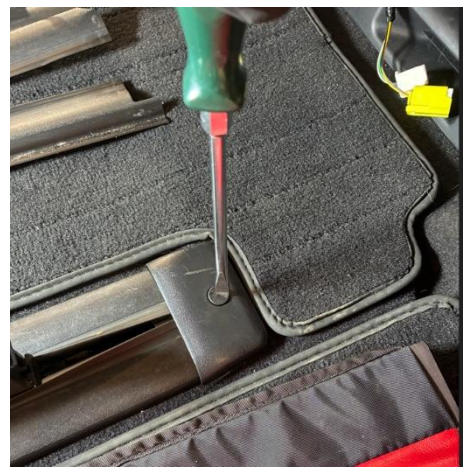


- h. Disconnect the white connector.



- i. Remove the (2) bolts on the front side of the driver side rear No. 1 seat assembly.

NOTE: Be sure not to damage the airbag connector or harness when removing the seat bolt.



5. REMOVE THE DRIVER SIDE AND PASSENGER SIDE OUTBOARD SEAT TRACK LOWER RAILS

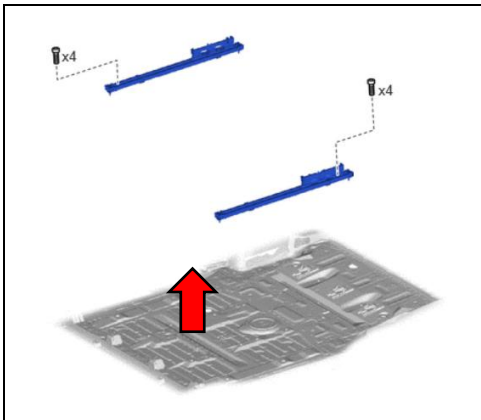
- a. Remove the (2) driver side floor carpet mouldings.
- b. Repeat process for passenger side.



- c. Remove the (2) driver side seat track lower rail outer protectors.
- d. Pull up from the inside beginning at the front and slowly work your way to the rear to remove the protector.
- e. Repeat process for passenger side.



NOTE: Keep these organized by rail in a safe location, as they will be reinstalled in a later step.



- f. Slide the rail so that its position allows for access to all four bolts.
- g. Using a T50 "TORX" socket, remove the (4) driver side outboard seat track lower rail assembly bolts, then remove the rail assembly from the vehicle.
- h. Using a paint marker, mark it with an "X".
- i. Repeat the process for the passenger side outboard rail assembly.



- j. Install the **NEW** driver side outboard seat track lower rail assembly.
- k. Slide the rails so that all four bolt holes are accessible.
- l. Hand-tighten the bolts.
- m. Torque the bolts in sequence, starting from the front, working towards the rear (1-4).
- n. Repeat the process for the passenger side outboard seat track lower rail assembly.

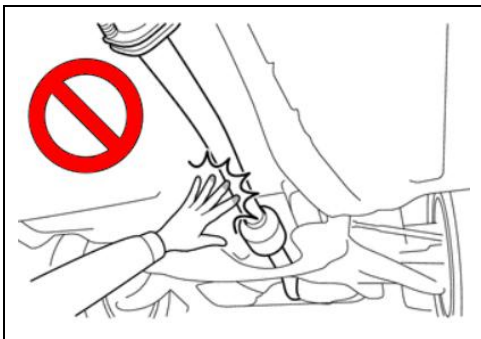
Torque:

39 N·m {29 ft·lbf}

- o.

6. PLACE VEHICLE ON LIFT

- a. Follow the safety procedures outlined in the lift's instruction manual.
- b. Raise vehicle to gain access to rear exhaust tail pipe.

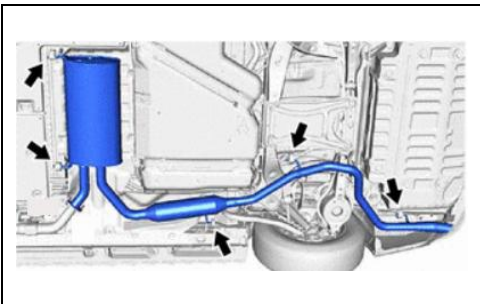


7. REMOVE EXHAUST TAIL PIPE ASSEMBLY

NOTE: To prevent burns, do not touch the engine, exhaust pipe, or other high-temperature components while the engine is hot.

- a. Remove the (2) bolts from the exhaust flange.



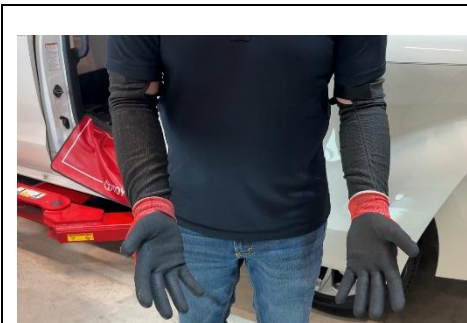


- b. Detach the (5) exhaust hangers, then remove the tailpipe assembly.

HINT: Use an exhaust hanger tool to detach the hangers from the exhaust tailpipe assembly.

NOTE:

- Place the exhaust tailpipe in a safe location that does not create a tripping hazard.



8. REMOVE THE NO. 3 FLOOR HEAT INSULATOR (RH SIDE)



- This step requires the donning of cut-resistant protective arm sleeves and gloves.
- Heat shields are extremely sharp; use caution when removing and handling.

- a. Remove (6) heatshield nuts, then remove the heatshield and place it in a safe location.



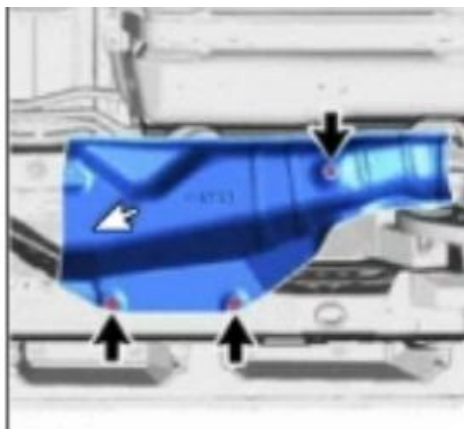
9. REMOVE THE FRONT LOWER NO. 2 FLOOR HEAT INSULATOR (RH SIDE)



- This step requires the donning of cut-resistant protective arm sleeves and gloves.
- Heat shields are extremely sharp; use caution when removing and handling.

- a. Remove the (3) nuts, then remove the heatshield and place it in a safe location.



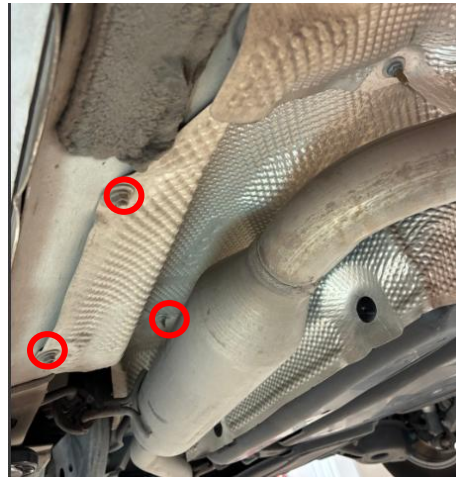


10. REMOVE FRONT NO. 3 FLOOR HEAT INSULATOR (RH SIDE)

- a. Remove the (3) nuts, then remove the heatshield and place it in a safe location

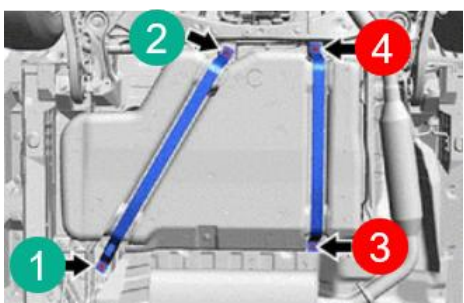
NOTE:

- Bottom photo would have the exhaust and NO. 2 Floor Heat Insulator removed PRIOR to removal of this heatshield.



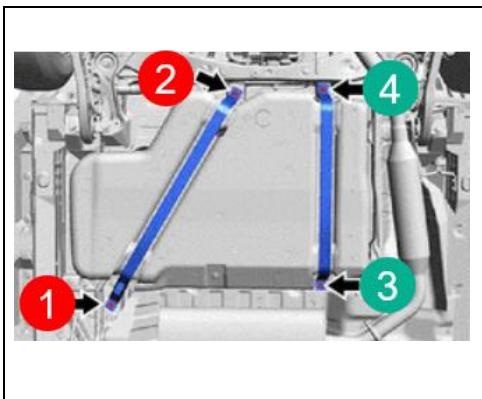
11. REMOVE THE CORNER UNDERCOVER TRIM BOLTS

- a. Remove (1) bolt and (1) screw.



12. SUPPORT & SLIGHTLY LOWER THE FUEL TANK ASSEMBLY

- a. Support tank using a jack stand & a flat board before loosening bolts
- b. Remove bolts #1 and #2.
- c. Reinstall bolts #1 and #2 by hand for four complete turns.



- d. Remove bolt #3 and #4 to lower the fuel tank slightly.
- e. Lower jack stand slowly until enough clearance is reached to remove rail fasteners.

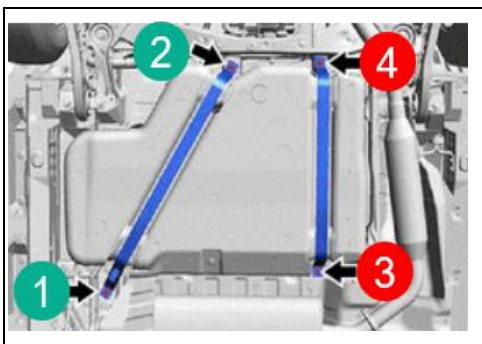
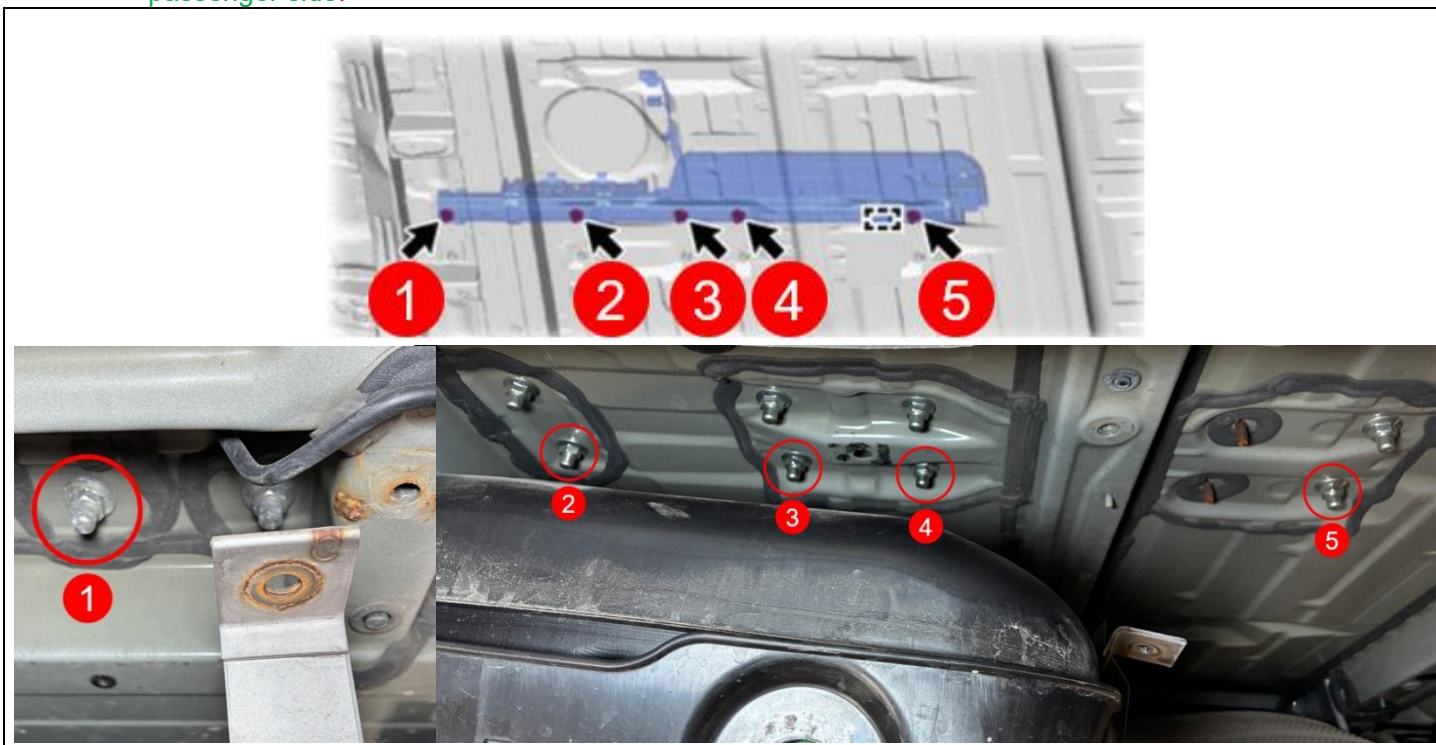
NOTE:

- Be sure to lower the fuel tank slowly.

13. REMOVE THE DRIVER SIDE CENTER SEAT TRACK LOWER RAIL NUTS

- a. Remove the (5) driver side center seat track lower rail assembly nuts.

HINT: The section of nuts removed will be the ones on the driver's side or furthest away when viewing from the passenger side.



- b. Re-install all 4 bolts without completely tightening to hold the tank momentarily while lowering the vehicle.



14. LOWER THE VEHICLE

- a. Check the work area to make sure that there are no parts or tools in the vicinity of the lift area.
- b. Safely lower the vehicle down.

NOTE: Be sure to confirm that the fuel tank does not strike the floor or become damaged when lowering the vehicle.



15. REMOVE REAR CONSOLE END PANEL SUB-ASSEMBLY

- a. Remove the driver and passenger side armrest assemblies.



- b. Remove two push-type fasteners using a small flat-head



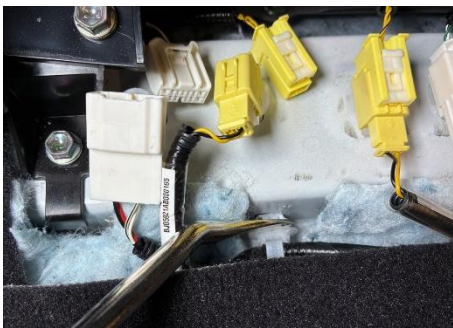
c. Pull out starting from the bottom cupholder area.

NOTE:

- Be careful not to damage the retainers or clips.
- Do not pull or stretch the wire harness as it may cause damage to the connector.



d. Disconnect the connector.



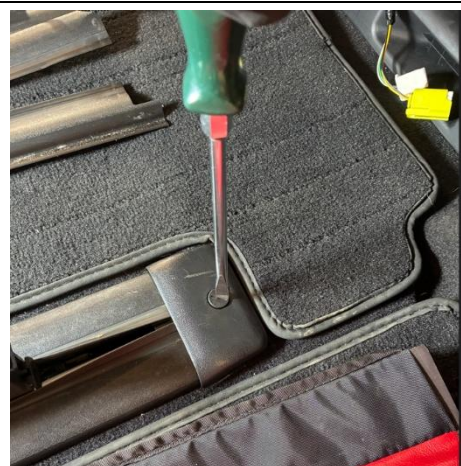
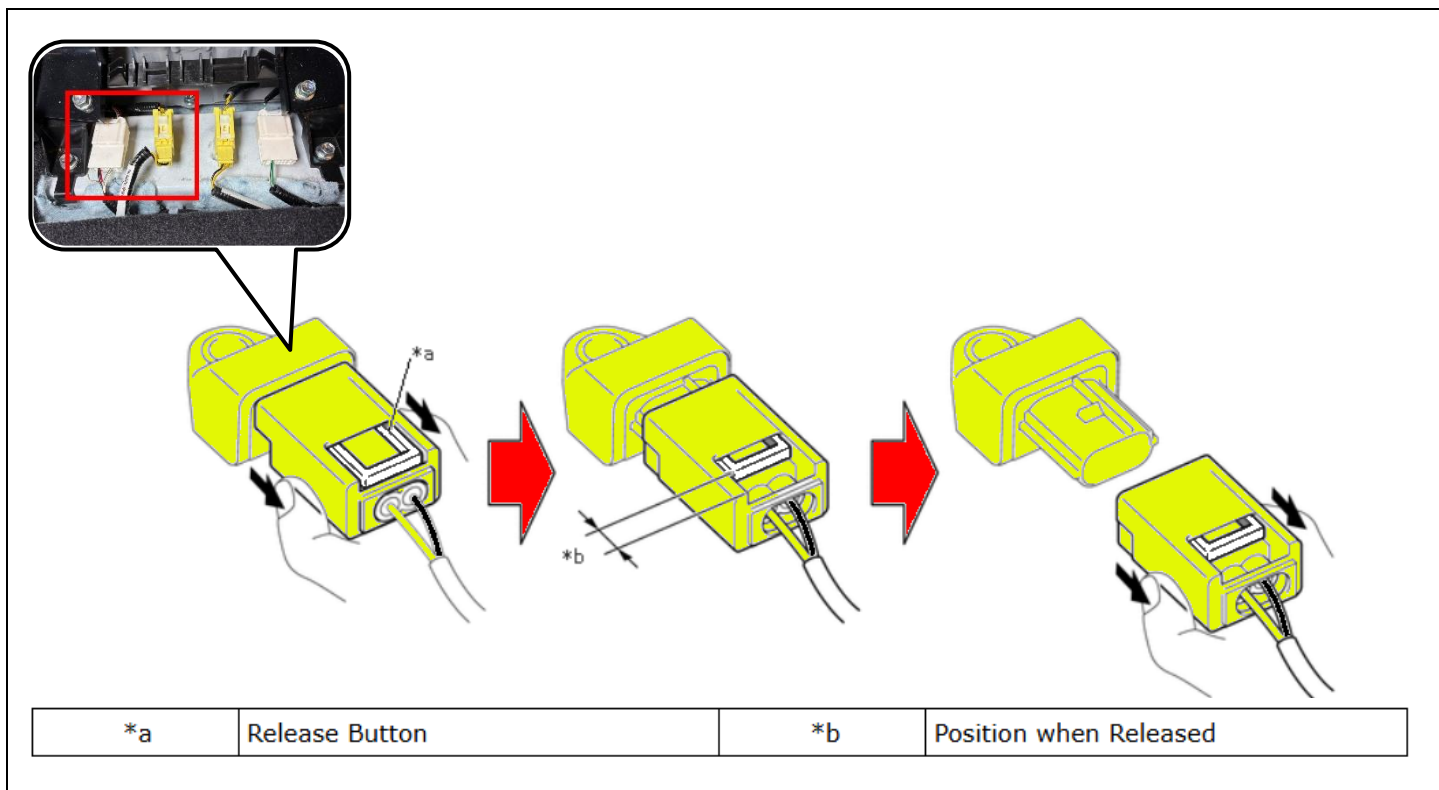
16. DISCONNECT SEAT RAIL WIRE HARNESS CONNECTORS

- a. Refer to the diagram below, then disconnect the airbag connector.
- b. Disconnect the white connector.
- c. Detach the wire harness clip.

HINT: Check that the position of the release button is as shown in the illustration. Push down the release button and slide the connector again to disconnect the airbag connector.

NOTE:

- When disconnecting any airbag connector, take care not to damage the airbag wire harness.
- Pushing down on the top of the connector will prevent the lock from being released, so hold the sides of the connector.

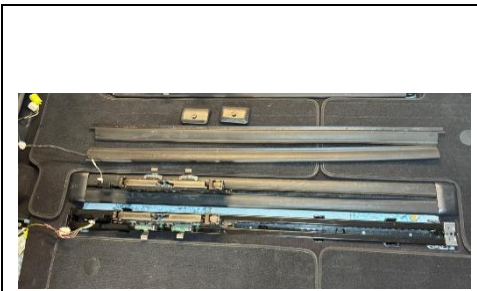


17. REMOVE THE DRIVER SIDE CENTER SEAT TRACK LOWER RAIL NUTS

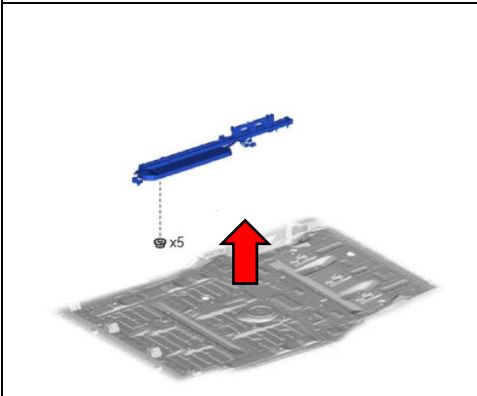
a. Remove the (2) floor carpet moldings.



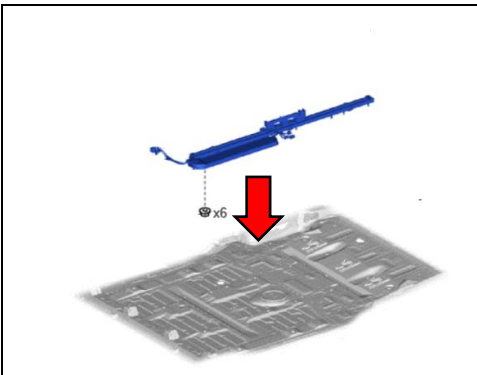
- b. Remove the (2) seat track lower rail outer protectors.
- c. Pull up from the inside, beginning at the front, and slowly work your way to the rear to remove the protector.



NOTE: Keep these organized by rail in a safe location, as they will be reinstalled in a later step.



- d. Remove the driver side center seat track lower rail assembly from the vehicle.
- e. Using a paint marker, mark it with an "X".



18. INSTALL NEW DRIVER SIDE CENTER SEAT TRACK LOWER RAIL

- a. Install the **NEW** driver side center seat track lower rail assembly into the vehicle.



- b. Re-install the (2) seat track lower rail outer protectors.
- c. Reinstall the (2) floor carpet mouldings.

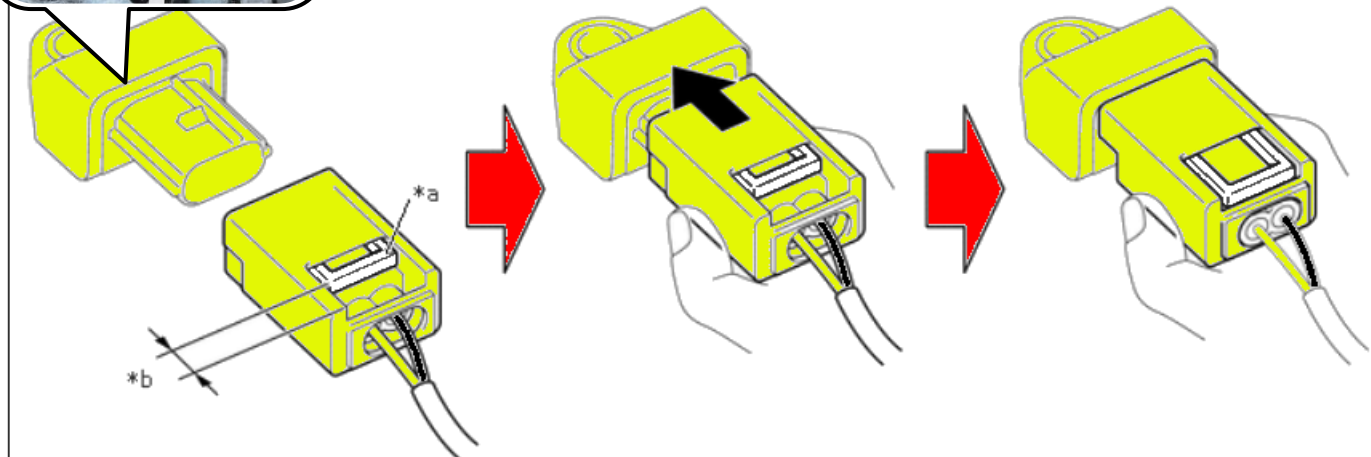
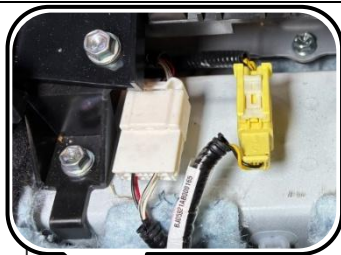
- d. Reinstall the airbag connector.

HINT:

- Before connecting the connector, check that the position of the release button is as shown in the illustration.
- While holding the sides of the connector, slide the connector in the direction shown by the arrow in the illustration until a click sound is heard to connect the airbag connector, and check that the release button is in its original position.

NOTE:

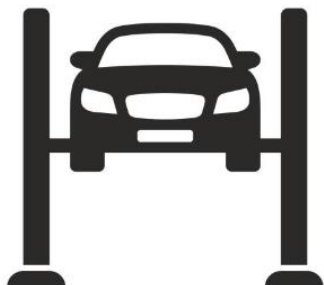
- Slide the connector in straight to connect it. Be careful not to pry the connector.
- To prevent deformation of the connector and possible damage to the partial engagement prevention mechanism, do not press down on the top surface of the connector when connecting it. Be sure to hold the connector by the sides.



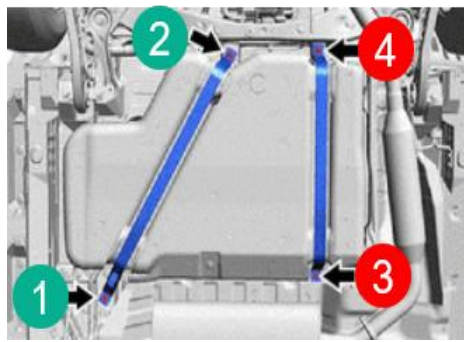
*a	Release Button	*b	Position when Released
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- e. Reinstall the white connector.
- f. Reinstall the wire harness clip.

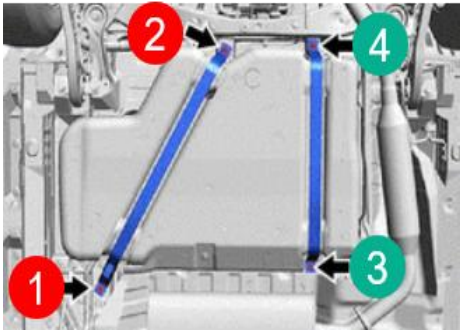


- g. Raise the vehicle back up to access the **NEW** driver side center seat track lower rail studs.



19. SUPPORT & SLIGHTLY LOWER THE FUEL TANK ASSEMBLY

- Support tank using a jack stand & a flat board before loosening bolts
- Remove bolts #1 and #2.
- Reinstall bolts #1 and #2 by hand for **four complete turns**.



- Remove bolt #3 and #4 to lower the fuel tank slightly.
- Lower jack stand slowly until enough clearance is reached to remove rail fasteners.

NOTE:

Be sure to lower the fuel tank slowly.

- Hand-tighten the (5) nuts.
- Torque the (5) nuts in sequence (1-5), starting from the front of the vehicle, then working towards the rear.

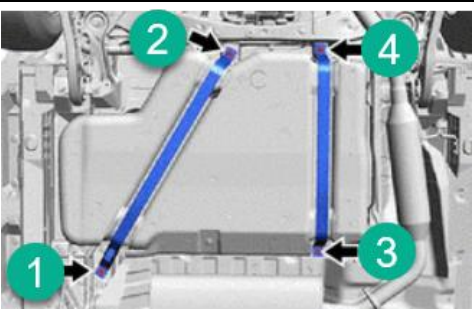
Torque:

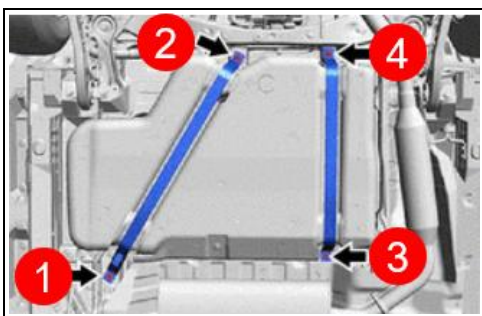
48 N·m {35 ft·lbf}



20. REINSTALL FUEL TANK

- With the help of the jack stand, push the tank up into position.
- Hand-tighten the (4) bolts.

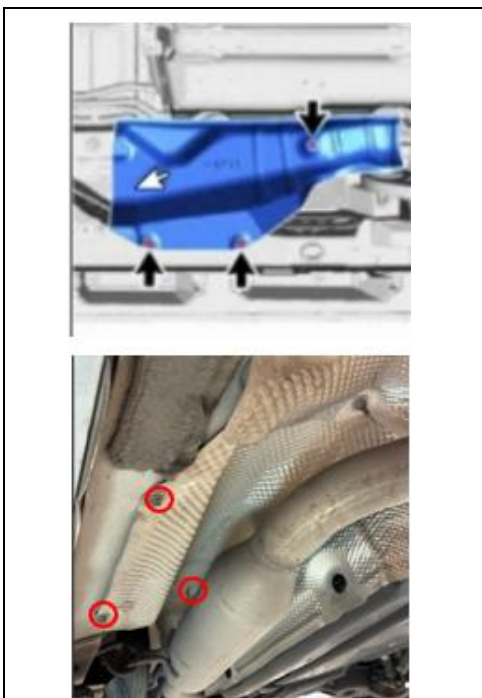




- c. Tighten the bolts to specification in the sequence shown in the illustration (1-4).

Torque:

56 N·m {41 ft·lbf}



21. REINSTALL THE FRONT NO. 3 FLOOR HEAT INSULATOR (RH SIDE)



- This step requires the donning of cut-resistant protective arm sleeves and gloves.
- Heat shields are extremely sharp, use caution when removing and handling.

- a. Reinstall the (3) nuts

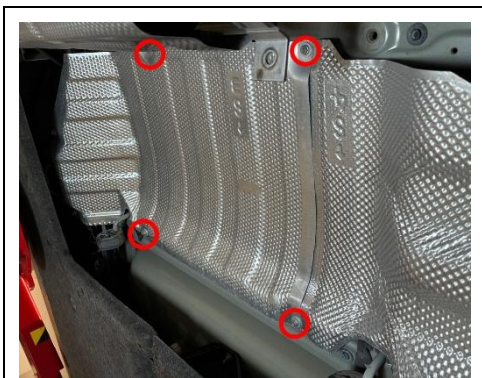


22. REINSTALL THE FRONT LOWER NO. 2 FLOOR HEAT INSULATOR (RH SIDE)



- This step requires the donning of cut-resistant protective arm sleeves and gloves.
- Heat shields are extremely sharp, use caution when removing and handling.

- a. Install the (3) nuts.

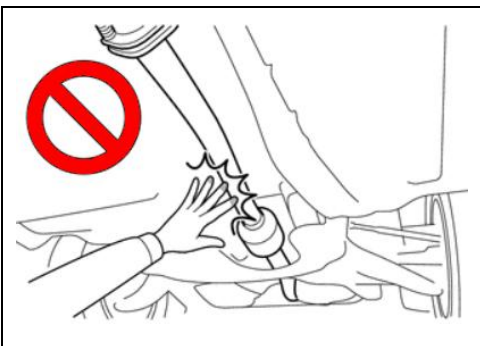


23. REINSTALL THE NO. 3 FLOOR HEAT INSULATOR (RH SIDE)



- This step requires the donning of cut-resistant protective arm sleeves and gloves.
- Heat shields are extremely sharp, use caution when removing and handling.

- a. Reinstall the (6) heatshield nuts.

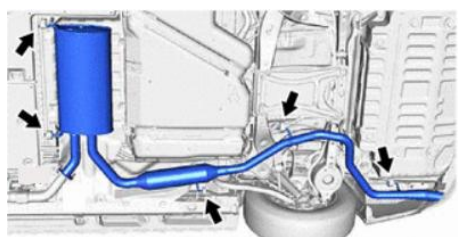


24. REINSTALL EXHAUST TAIL PIPE ASSEMBLY

NOTE: To prevent burns, do not touch the engine, exhaust pipe, or other high-temperature components while the engine is hot.



- a. Install NEW Exhaust Gasket
- b. Reinstall the (2) bolts to the exhaust flange.



- c. Reinstall the (5) exhaust hangers.



25. REINSTALL THE CORNER UNDERCOVER TRIM BOLTS

- a. Reinstall (1) bolt and (1) screw.



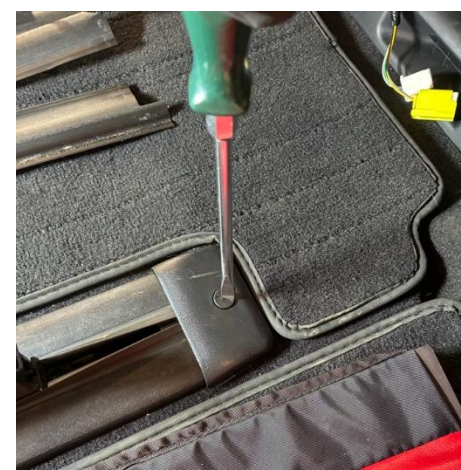
26. LOWER THE VEHICLE

- a. Safely lower the vehicle down.



27. REINSTALL THE SEAT TRACK LOWER RAIL OUTER PROTECTORS

- a. Reinstall all (6) seat track lower rail outer protectors.
- b. Install by pressing firmly, starting from the front, working towards the rear.



28. REINSTALL THE FLOOR CARPET MOULDINGS

- a. Reinstall all (6) floor carpet mouldings.

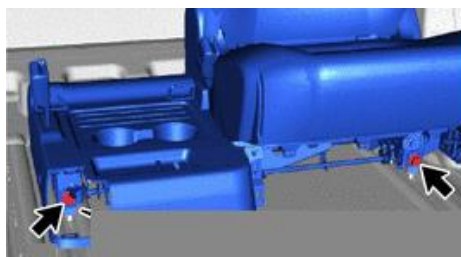


29. REINSTALL 2ND ROW SEATS

- a. Prepare by making sure that all (4) seat track rails are locked in place in parallel with each other.
- b. Reinstall the driver's side rear No. 1 seat assembly into the vehicle.

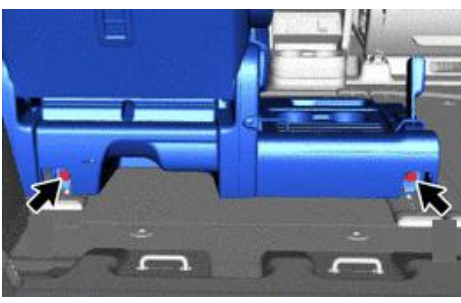
NOTE:

- Be sure that the airbag wire harness has been cleared from the seat assembly before attempting to reinstall the seat.



- c. Hand-tighten the (2) bolts on the front side of the driver's side rear No. 1 seat assembly.

NOTE: Be sure not to damage the airbag connector or harness when installing the seat bolt.



- d. Install the (2) bolts on the rear side of the driver side rear No. 1 seat assembly.



e. Torque all (4) bolts.

Torque:
65 N·m {48 ft·lbf}

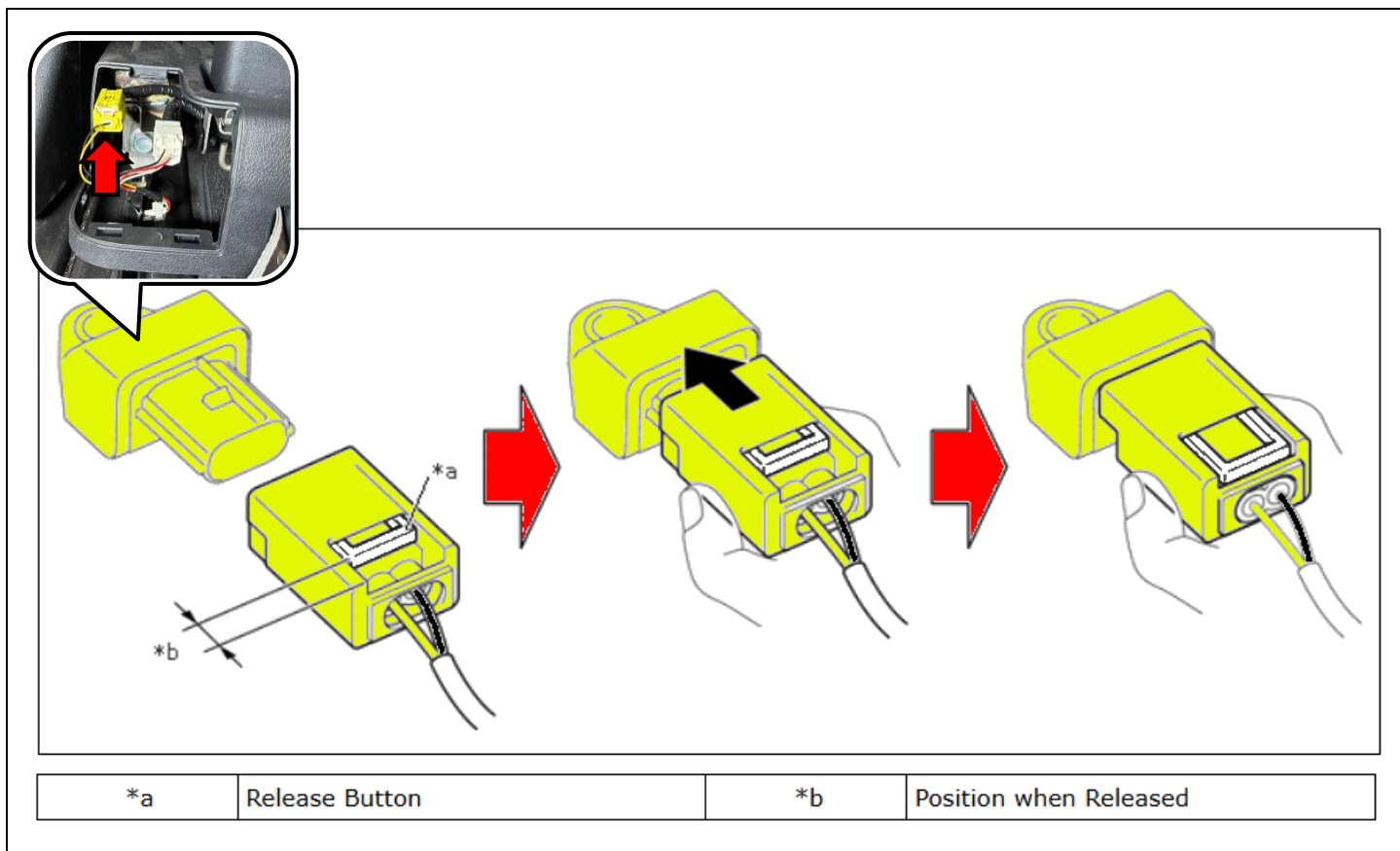
f. Reinstall the airbag connector.

HINT:

- Before connecting the connector, check that the position of the release button is as shown in the illustration.
- While holding the sides of the connector, slide the connector in the direction shown by the arrow in the illustration until a click sound is heard to connect the airbag connector, and check that the release button is in its original position.

NOTE:

- Slide the connector in straight to connect it. Be careful not to pry the connector.
- To prevent deformation of the connector and possible damage to the partial engagement prevention mechanism, do not press down on the top surface of the connector when connecting it. Be sure to hold the connector by the sides.





g. Reconnect the white connector.



h. Reinstall seat covers.



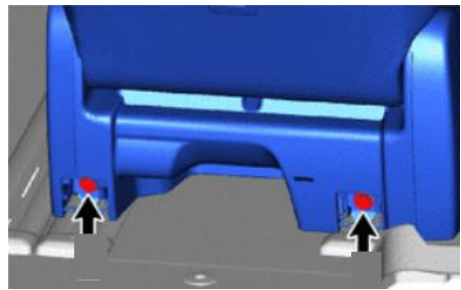
i. Reinstall the passenger's side rear No. 1 seat assembly into the vehicle.

NOTE:

- Be sure that the airbag wire harness has been cleared from the seat assembly before attempting to reinstall the seat.

j. Hand-tighten the (2) bolts on the front side of the passenger side rear No. 1 seat assembly.

NOTE: Be sure not to damage the airbag connector or harness when installing the seat bolt.



k. Install the (2) bolts on the rear side of the passenger side rear No. 1 seat assembly.



l. Torque all (4) bolts.

Torque:
65 N·m {48 ft·lbf}

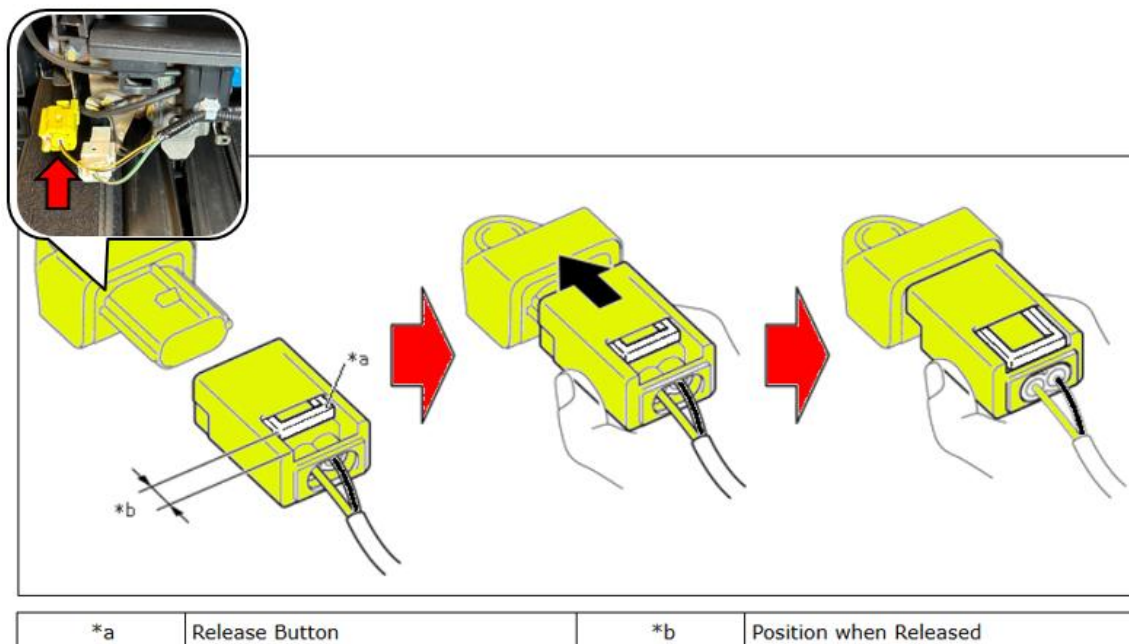
m. Reinstall the airbag connector.

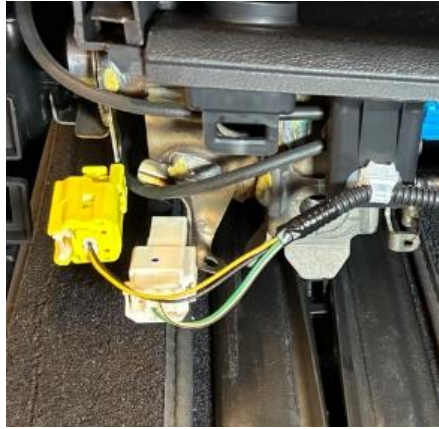
HINT:

- Before connecting the connector, check that the position of the release button is as shown in the illustration.
- While holding the sides of the connector, slide the connector in the direction shown by the arrow in the illustration until a click sound is heard to connect the airbag connector, and check that the release button is in its original position.

NOTE:

- Slide the connector in straight to connect it. Be careful not to pry the connector.
- To prevent deformation of the connector and possible damage to the partial engagement prevention mechanism, do not press down on the top surface of the connector when connecting it. Be sure to hold the connector by the sides.





n. Reconnect the white connector.



o. Reinstall the airbag wire harness clips.



p. Reinstall the seat covers.

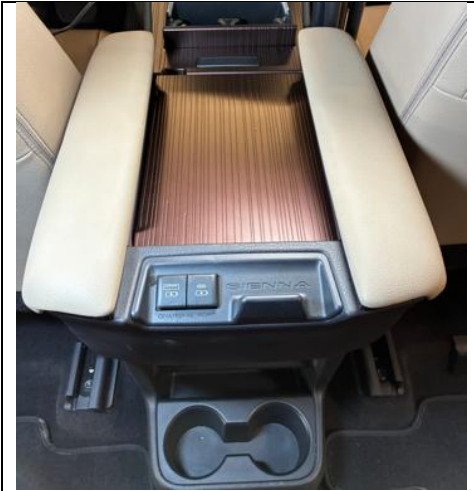


30. REINSTALL REAR CONSOLE END PANEL SUB-ASSEMBLY

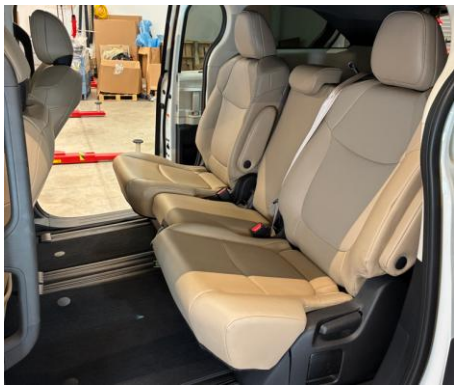
a. Reinstall the connector.



b. Reinstall the back cover.

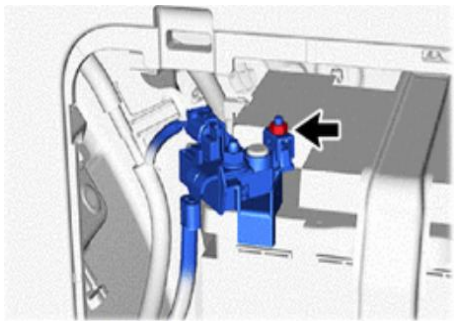


c. Reinstall the armrests.



31. REINSTALL HEADRESTS

a. Reinstall both headrests.



32. CONNECT 12V BATTERY.

- Connect negative battery terminal.
- If equipped with power doors, initialize power doors by manually opening and closing left, right and rear door.
- Test for correct function of sunroof & auto up/down windows, if needed perform initialization procedure.



33. CHECK SRS WARNING LIGHT

- Turn the ignition switch to ON and check that the SRS warning light turns on.
- Turn the ignition switch off. Wait for at least 2 seconds, then turn the ignition switch to ON. The SRS warning light comes on for approximately 6 seconds, a diagnosis of the airbag system is performed, and then the light turns off.

NOTE: If the SRS warning light remains on for longer than 6 seconds after the ignition switch has been turned to ON, there may be a malfunction in the SRS airbag system.

◀ VERIFY REPAIR QUALITY ▶

- Confirm that the SRS warning light turns off after approximately 6 seconds.
- Confirm all seat covers and trim panels are correctly installed.
- Confirm seats slide smoothly on new rails.

VI. APPENDIX

A. PARTS DISPOSAL

In accordance with Federal law, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***