

TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL 23TA15
PASSENGER AIRBAG MAY NOT DEPLOY
CERTAIN 2020-2021 COROLLA VEHICLES

Updated 4/18/2025 – Updated inspection-only seat installation and instructions for OCCUPANT CLASSIFICATION SYSTEM – DATA LIST/ACTIVE TEST

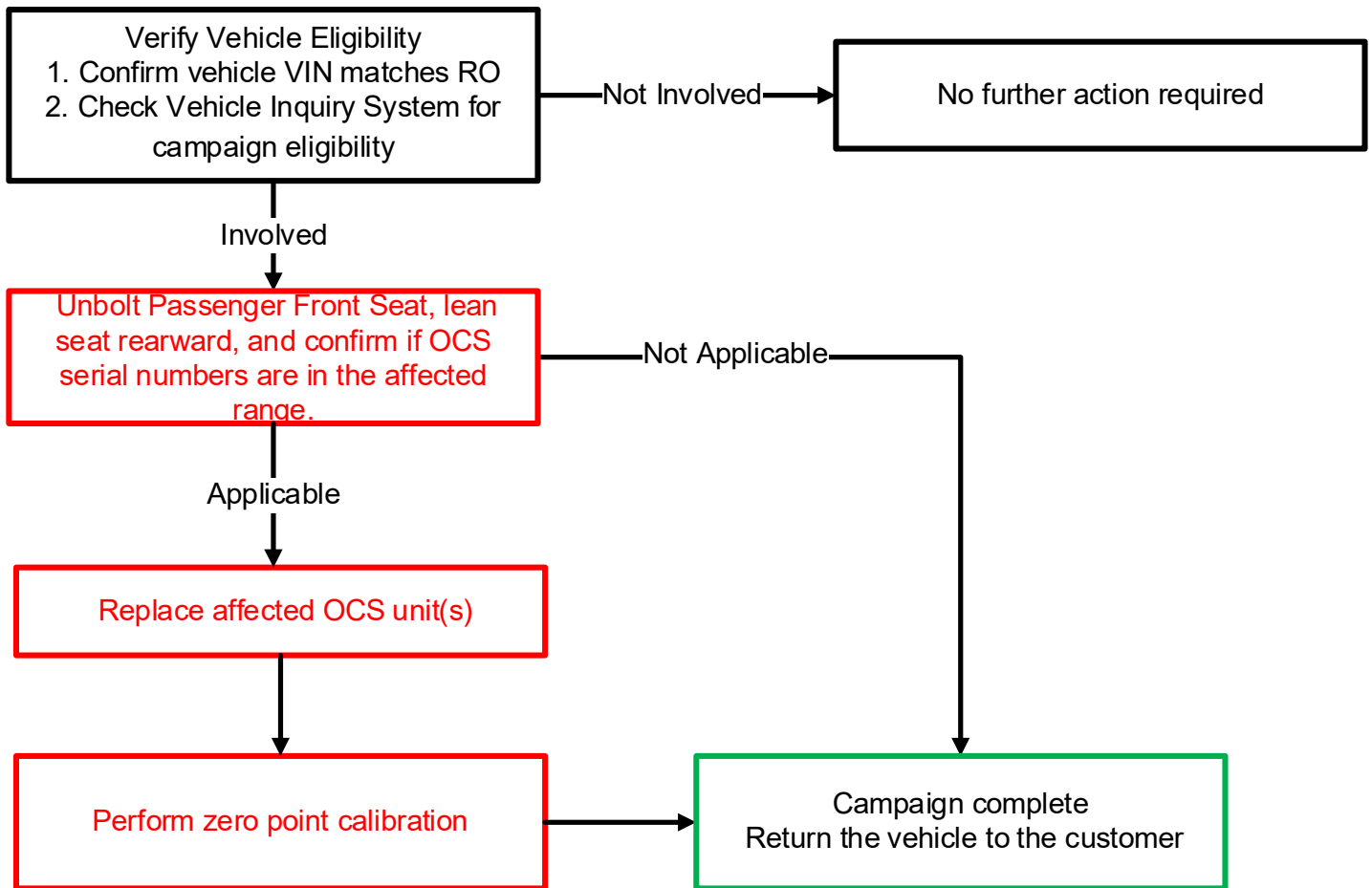
Updated 1/10/2025 – Updated installation section.

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to 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 recall repair are required to have completed all of the following courses currently:

- **TIC206A – Electrical Repair**

Always check which technicians can perform the repair by logging on to <https://www.uotdealerreports.com>. The dealership is responsible for selecting technicians who have completed the above courses to perform this repair. Carefully review your resources, the technician’s skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure properly trained technicians are 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 vehicle's 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.

NOTICE:

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

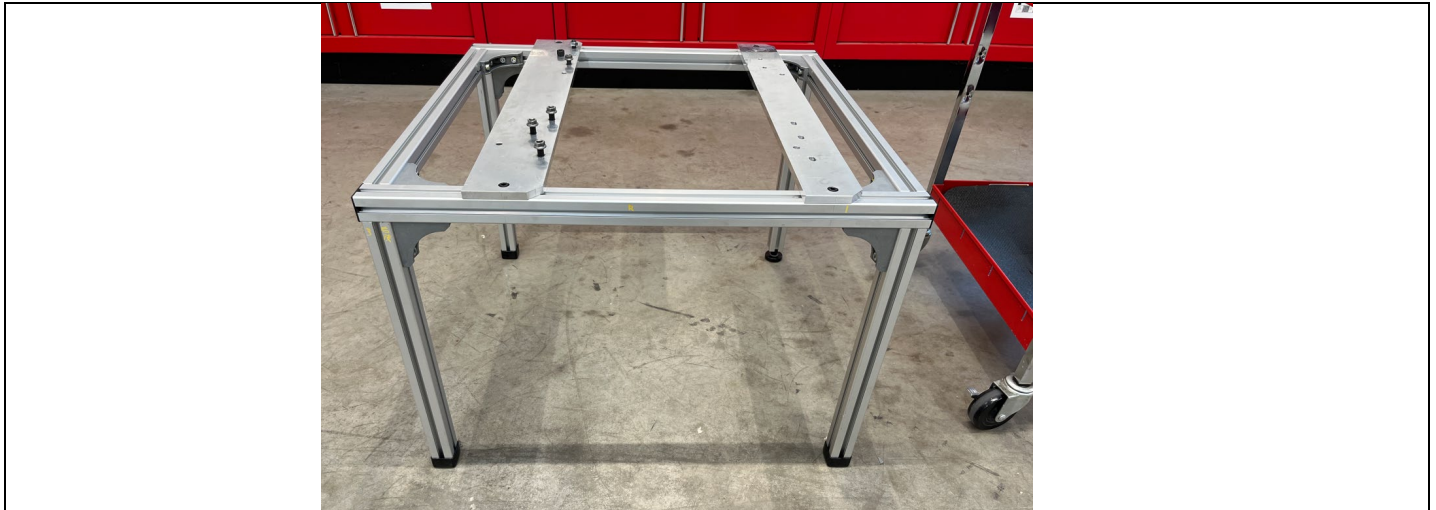
III. PREPARATION

A. TOOLS AND EQUIPMENT

Standard Hand Tools	Techstream/GTS+	T50 "TORX" Socket
Torque Wrench	Flashlight	Masking Tape
Inspection Application	Protective Cover	Seat Jig Assembly
3.5-4.5" Spacer (foam block, wood block or equivalent)	SST 12mm Torque Adapter (50mm Long)	Paint Marker
6" 3/8 Extension	SST 14mm Torque Adapter (50mm Long)	

NOTICE:

- Recall SST: Seat Jig Assembly (This was shipped to your dealer at Phase 1 Remedy Launch).**
- It is critical that the seat jig assembly is used during sensor replacement, so the seat tracks remain square and do not become misaligned. Seat track out of alignment will impact the occupant detection weight readings by the ECU.**



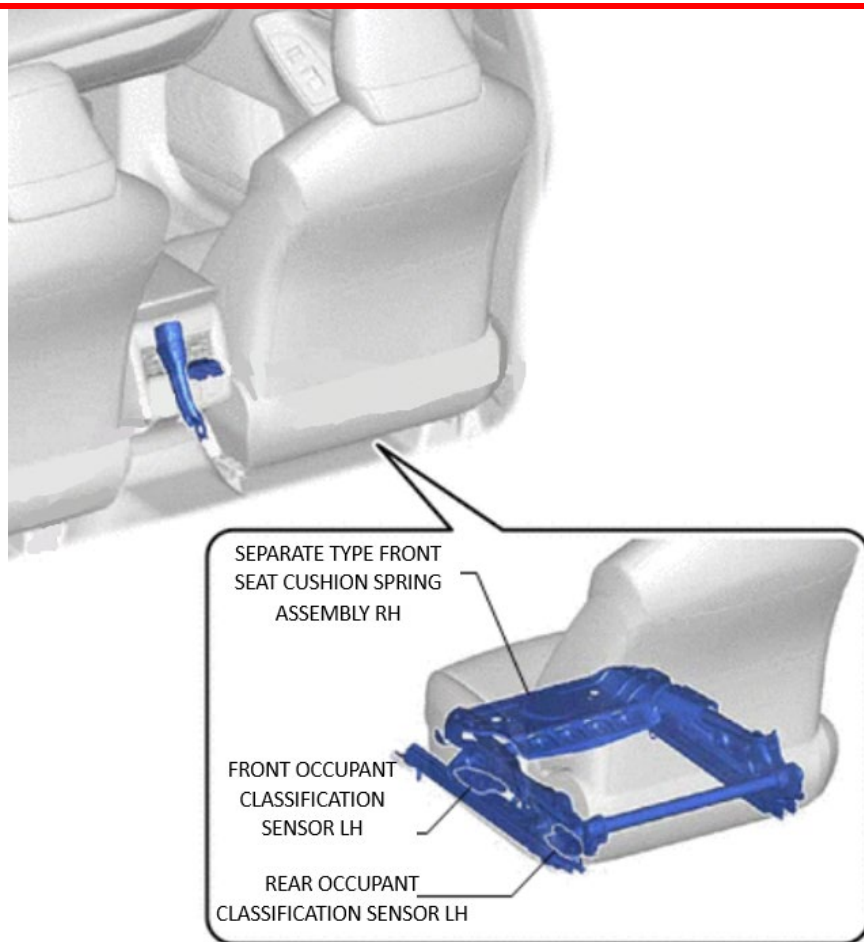
B. PARTS

Part Number	Part Description	Quantity
04003-60106	SENSOR SUB-ASSY, WEIGHT DETECTOR, FR	As Needed
04003-60206	SENSOR SUB-ASSY, WEIGHT DETECTOR, RR	As Needed

IV. WORK PROCEDURE TABLE OF CONTENTS

REMOVE PASSENGER FRONT SEAT AND INSPECT OCS SERIAL NUMBERS	SECTION VI.
REPLACE FRONT AND/OR REAR OCS ASSEMBLIES	SECTION VII.
CALIBRATION AND CONFIRMATION	SECTION VIII.
APPENDIX	SECTION IX.

V. BACKGROUND



VI. INSPECT FRONT AND REAR OCS SERIAL NUMBERS

NOTE: Manual seat track assembly will follow the same inspection instructions.



1. UNBOLT THE PASSENGER FRONT SEAT AND CONFIRM OCS SERIAL NUMBERS

- a) Install the mobile inspection app on your device using the QR code or by clicking on the links below:

Apple: [Click Here](#)

Android: [Click Here](#)



DO NOT disconnect any seat harness connectors at this time.

- b) Take note of the passenger seat position, so seat can be returned to this position later.
- c) Place the passenger front seat in the following positions before unbolting:
- Recline Angle - Upright Position
 - Front Tilt Height – Highest Position
 - Seat Lifter Height – Highest Position
- d) Using a T50 "TORX" socket, unbolt the 4 passenger seat bolts.
- e) Lean the passenger front seat back to view the underside of the seat.

Front

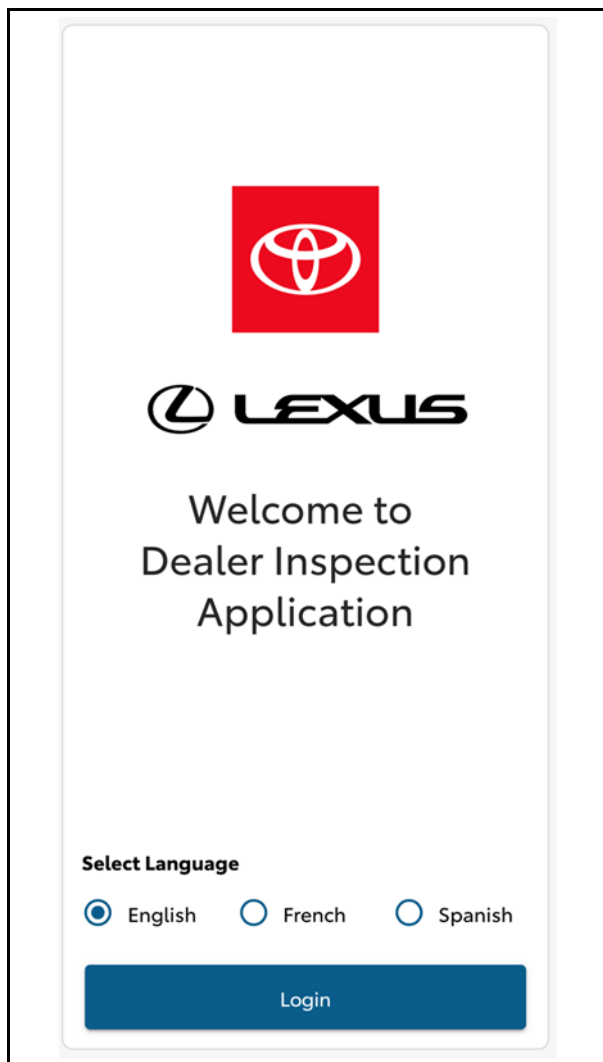


Rear



2. IDENTIFY THE FRONT AND REAR OCS ASSEMBLY SERIAL NUMBERS

- a) Viewing from underneath the seat, locate and identify the front and rear OCSs.



- b) Log into the QA – Dealer Inspection Application.
- c) Select the appropriate campaign: “23TA15/23LA03”.
- d) Follow the instructions in the application to scan the front and rear OCS serial numbers.

Do the front and/or rear OCS units require replacement?

YES: Front and/or rear OCS require replacement; proceed to **Section VII**.

NO: Proceed to **step 3**.



If the first 5 digits of the OCS serial number are illegible, the sensor must be replaced.

NOTE:

In the event that the application cannot successfully scan the vinyl VIN certification label due to its compromised condition or if it is missing, please reach out to the Quality Compliance team at quality_compliance@toyota.com. Include a photograph of the damaged VIN label, if applicable, as well as the VIN label located beneath the windshield in your correspondence.



3. REINSTALL PASSENGER FRONT SEAT

- a) Install the passenger front seat following the repair manual steps:
 - [Corolla](#)

NOTE:

Be sure to tighten the bolts in the order shown in the repair manual.

NOTE:

Be sure to perform zero-point calibration in accordance with the repair manual.

4. RESTORE FRONT PASSENGER SEAT TO ORIGINAL POSITION

5. CAMPAIGN COMPLETE

VII. REPLACE FRONT AND/OR REAR OCS ASSEMBLIES

HINT:

Perform this procedure only when OCS replacement has been determined in the previous section.



1. REMOVE PASSENGER FRONT SEAT ASSEMBLY

- a) Remove the passenger front seat following the repair manual steps:
 - [Corolla](#) (Steps 3-8 only)



2. PREPARE THE JIG ASSEMBLY

- a) Identify the correct rear bolt and front alignment pinhole combination to match the seat frame type being mounted to the jig.

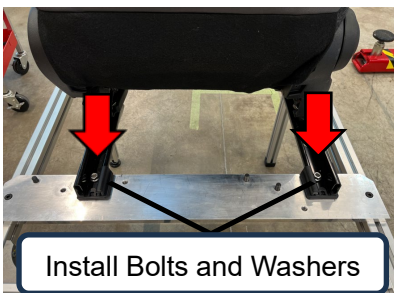
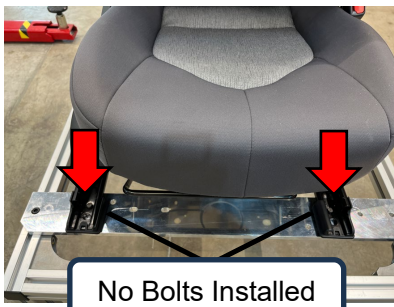
HINT:

Be sure to position the jig in a safe location clear of any moving vehicles or machinery.

3. INSTALL SEAT ASSEMBLY TO THE JIG

- a) Place the passenger front seat assembly onto the jig and secure it using the 2 provided bolts and washers through the rear seat track mounting holes.

Torque: 27 N*m (20 ft.*lbf)



NOTICE:

Wear protective gloves. Sharp areas on the seat track parts may injure your hands.



b) Ensure seat is properly secured to the jig.



4. REMOVE THE PASSENGER SIDE FRONT SEAT CUSHION SHIELD

a) Remove the passenger side front seat cushion shield following the repair manual instructions:

- [Corolla](#) (Step 12 (a-d) only)

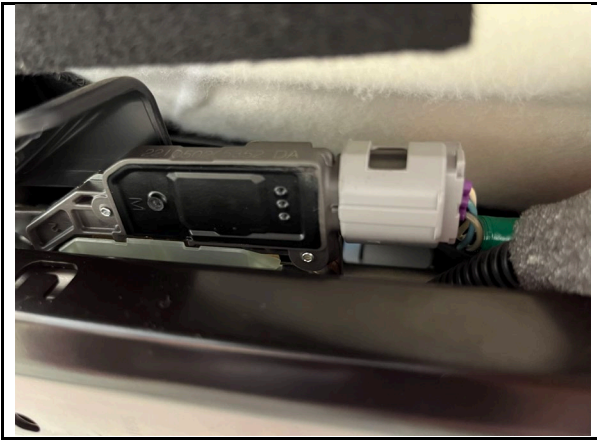


5. DISCONNECT THE OCS CONNECTORS

a) Disconnect the front and rear OCS connectors.

NOTICE:

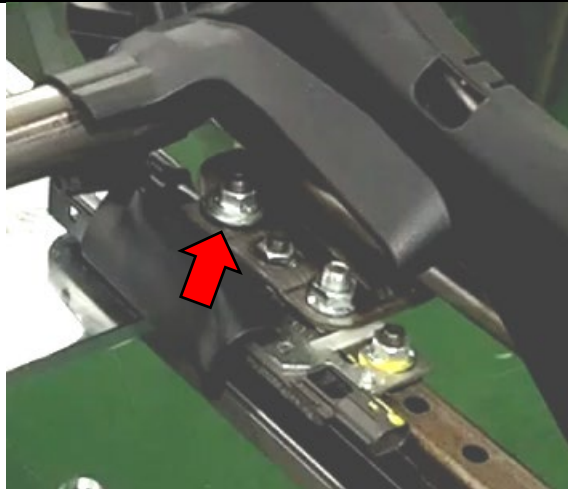
Be sure to disconnect both front and rear OCS connectors before lifting up the seat track in the following steps.



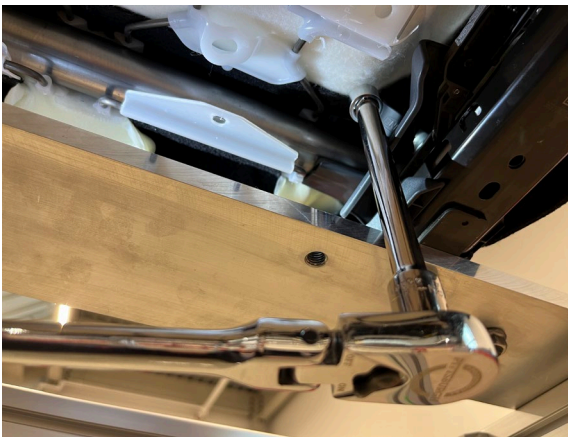
6. REMOVE LEFT REAR SEAT TRACK INTERFERENCE NUT



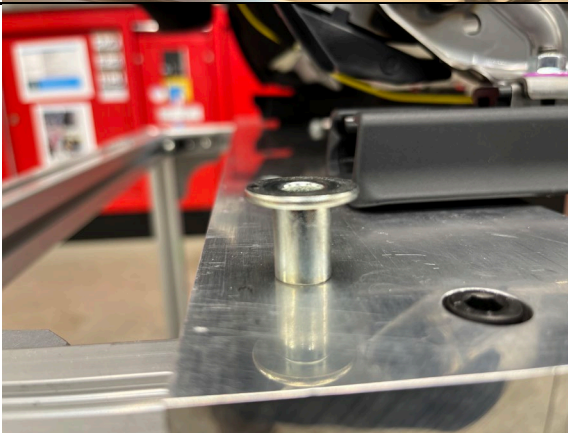
DO NOT loosen any nuts other than the ones instructed.

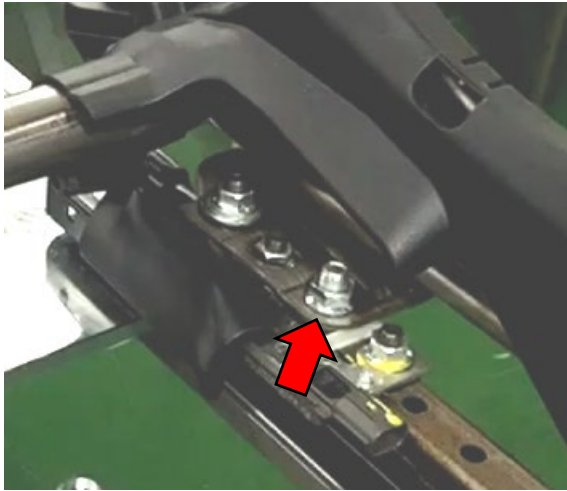


- a) Loosen and remove the rear interference seat track nut using a 12mm 2" (50mm) Torque Adapter with a 6" extension and ratcheting wrench.



- b) Remove the interference nut sleeve and place it in a safe location for later use.





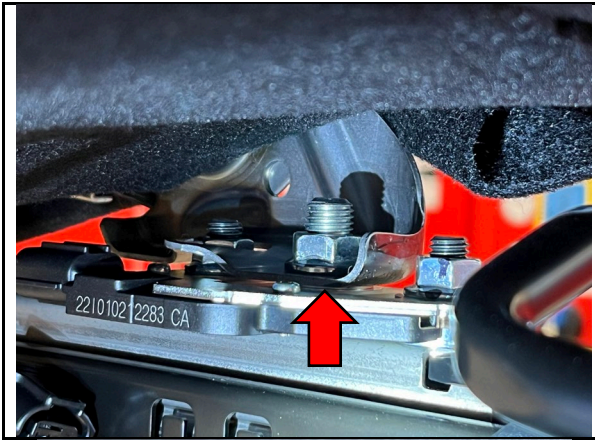
7. REMOVE LEFT REAR SEAT TRACK BOLT



DO NOT loosen any nuts other than the ones instructed.

- a) Loosen and remove the rear seat track nut using a 14mm 2" (50mm) Torque Adapter with a 6" extension and ratcheting wrench.



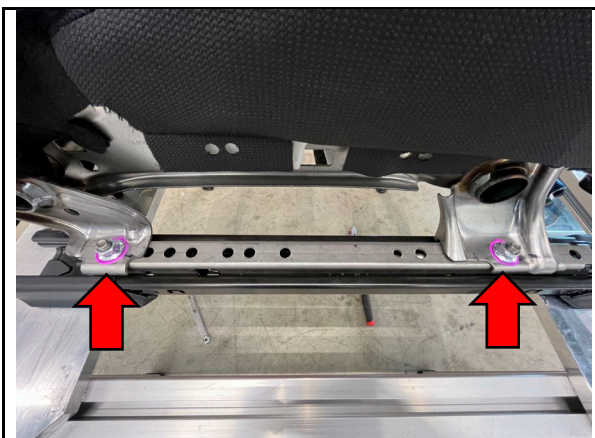
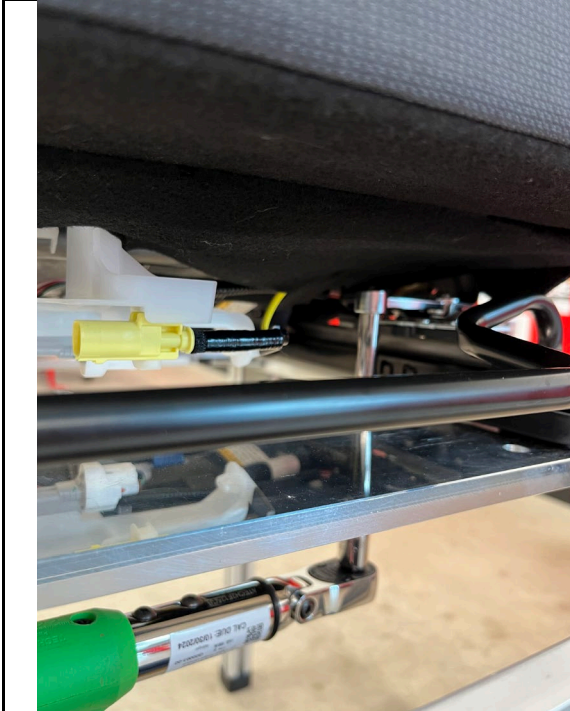


8. REMOVE LEFT FRONT SEAT TRACK NUT



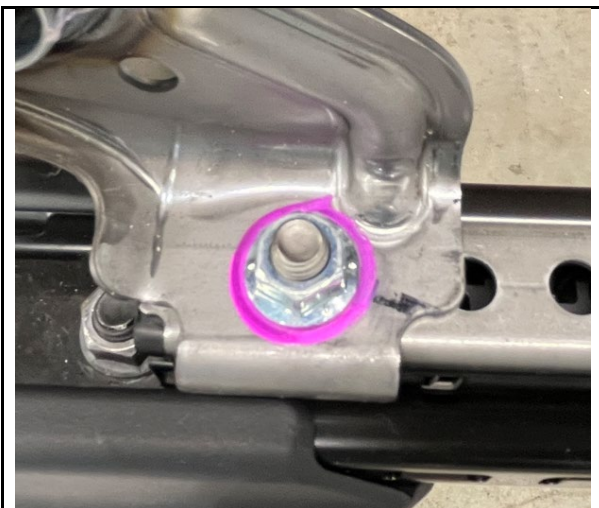
DO NOT loosen any nuts other than the ones instructed.

- a) Loosen and remove the front seat track nut using a 14mm 2" (50mm) Torque Adapter with a 6" extension and ratcheting wrench.



9. REMOVE THE RIGHT SIDE SEAT TRACK NUTS

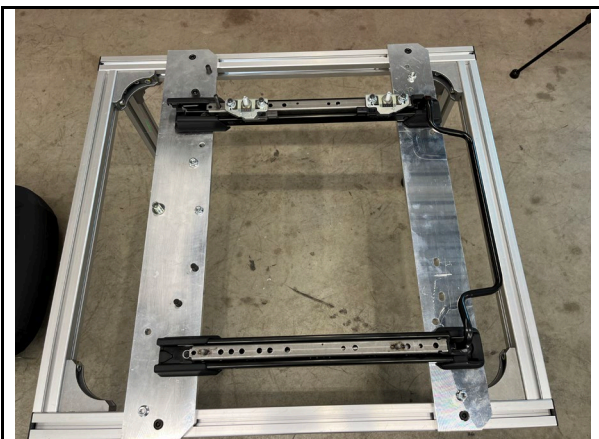
- a) Use a paint maker to circle the circumference of each of the right side seat track nuts.



HINT: This mark will be used to properly align the seat track during reassembly.



b) Remove both nuts.



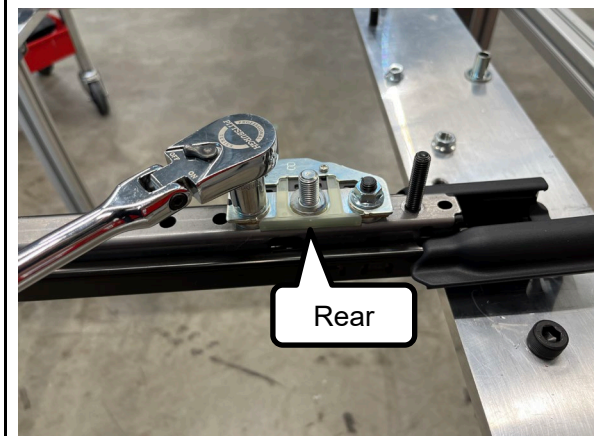
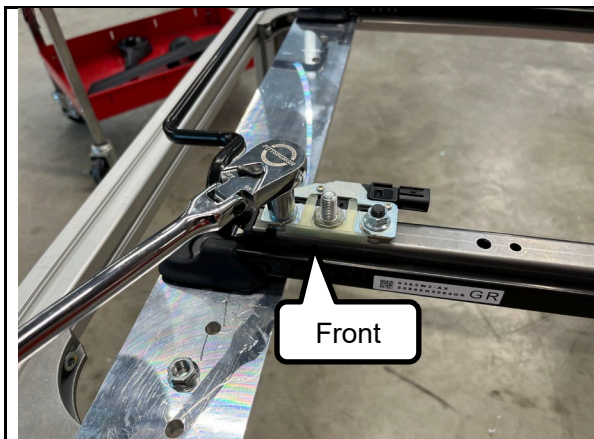
10. LIFT UP AND REMOVE UPPER SEAT FRAME ASSEMBLY



Make sure both OCS connectors are disconnected before removing the seat assembly.

a) Lift up and remove the upper seat assembly and place it in a safe location.



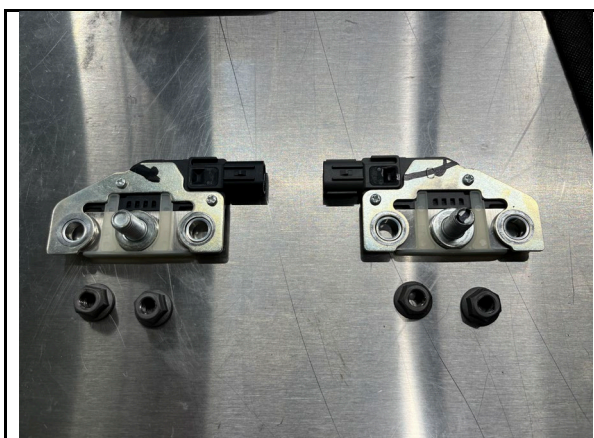


11. REMOVE OCS ASSEMBLIES



DO NOT loosen any nuts other than the ones instructed.

- a) Remove the front and/or rear OCS assemblies, as required by the mobile app inspection results.



12. INSTALL NEW OCS ASSEMBLIES TO THE SEAT TRACK ASSEMBLY

NOTICE:

Wear protective gloves. Sharp areas on the seat track parts may injure your hands.

- a) If necessary, install the **NEW** rear OCS assembly to the seat track assembly.

NOTICE:

When installing, be sure to use your thumb to gently push on the left corner of each sensor to seat the NEW OCS properly.



Torque: 25 N*m (18.5 ft.*lbf)

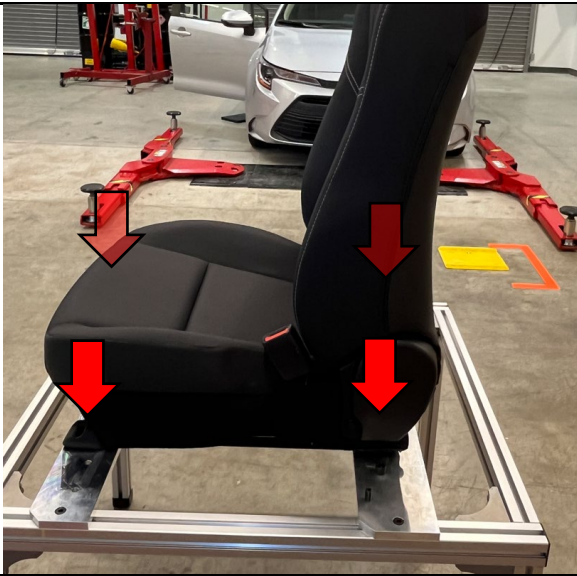


- b) If necessary, install the **NEW** front OCS assembly to the seat track assembly.

NOTICE:

When installing, be sure to use your thumb to gently push on the left corner of each sensor to seat the NEW OCS properly.

Torque: 25 N*m (18.5 ft.*lbf)



- c) Place the upper seat assembly back onto the seat track assembly.

13. REINSTALL RIGHT SIDE SEAT TRACK ASSEMBLY

- a) Reinstall the right side seat track nuts, ensuring that the nuts are centered in the paint mark circle.

Torque: 25 N*m (18.5 ft.*lbf)





14. PREPARE INTERFERENCE SLEEVE

- a) Prepare the interference sleeve for installation by using masking tape. Cut approximately 20mm (3/4") of tape and wrap the interference sleeve **2 times**, ensuring no wrinkles or creases exist.

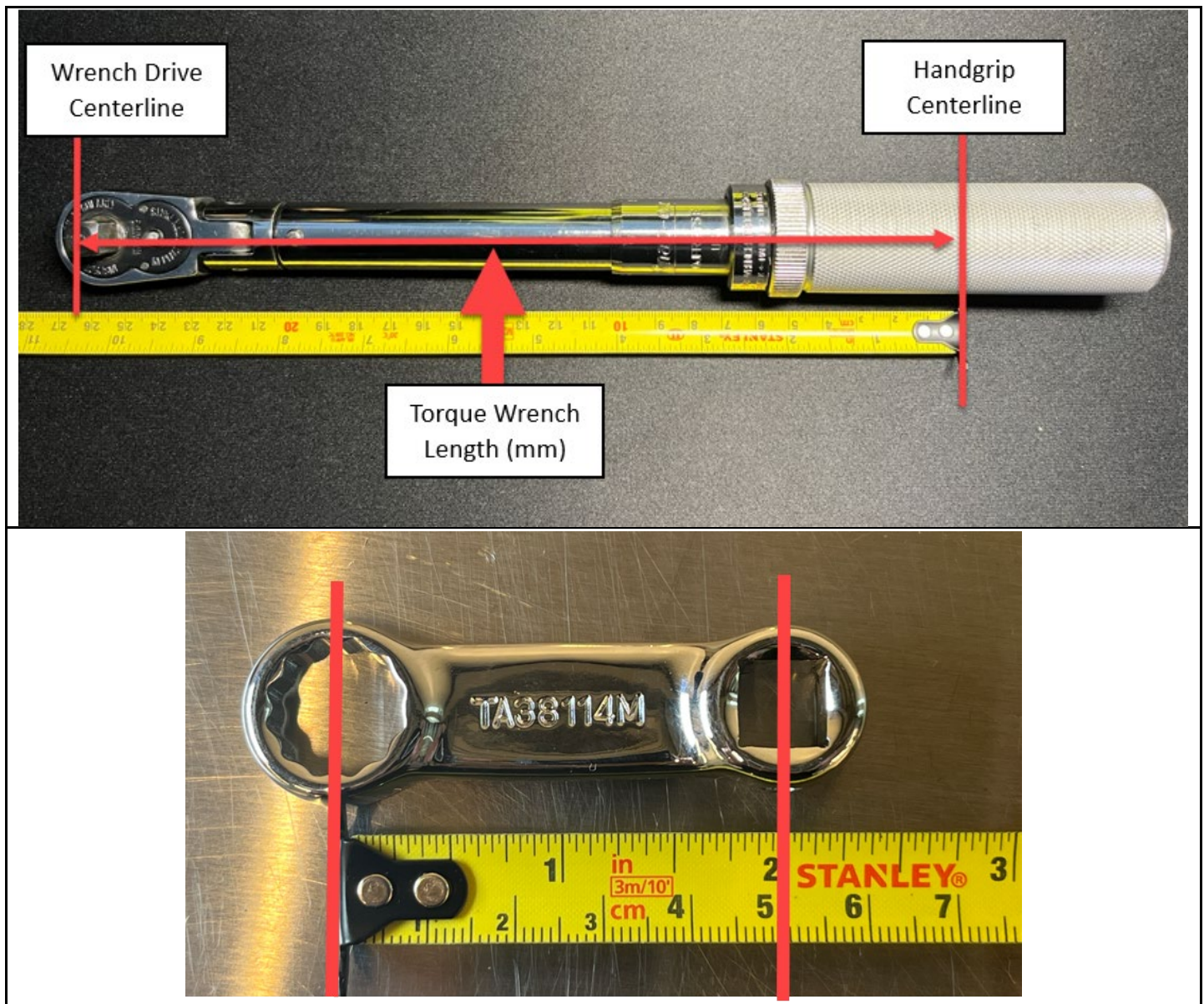
HINT:

This will ensure that no contact between the sleeve and seat track assembly exists during the installation of the left side seat track nuts.



- b) Temporarily insert the interference sleeve onto the stud.

15. CALCULATE TORQUE SPECIFICATION FOR SEAT TRACK NUTS



a) Use the following formula to calculate the torque specification:

NOTE: The applied torque changes when using the SST adapter. The calculation below will determine the new applied torque specification required for installing the seat track nuts.

HINT:

- The measurement that needs to be performed manually is the Torque Wrench Length in millimeters (See illustration above). This is due to the varying sizes of torque wrenches available for use.
- The SST adapter is set to allow for 50mm in length.
- An extension can be used along with the SST adapter. The extension does not affect the calculated torque specification.

b) Calculation:

- New Torque Value = $(A / (A+B)) * \text{Original Torque Value}$

A = Torque wrench length (mm) (wrench drive centerline to handgrip centerline)

B = SST adapter length being used (50mm)

Original Torque Value = 37 N*m

HINT: Example:

If:

A = 270mm *(variable based on your torque wrench size)

B = 50mm *(fixed value for this SST)

Original Torque Value = 37 N*m

Then:

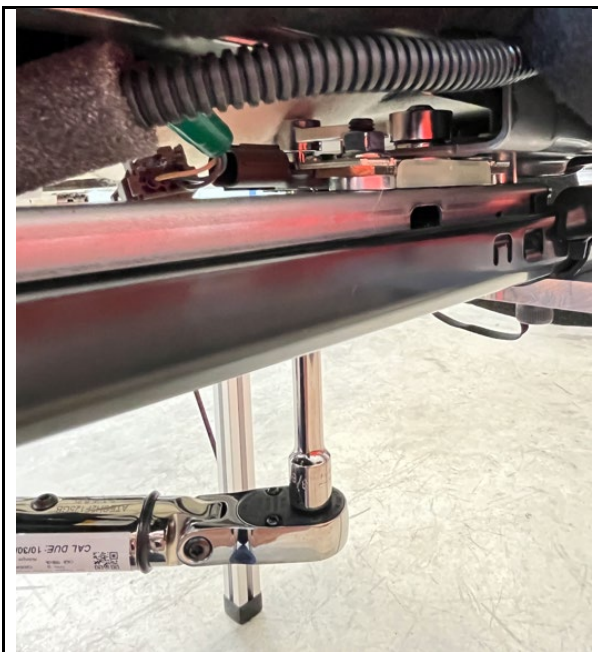
$$\begin{aligned}\text{New Torque Value} &= (270 / (270+50)) * 37 = \\ &= (270 / 320) * 37 = \\ &= 0.843 * 37 = 31\end{aligned}$$

New Torque Value = 31 N*m (23 ft.*lbf)

16. INSTALL THE LEFT SIDE SEAT TRACK BOLTS



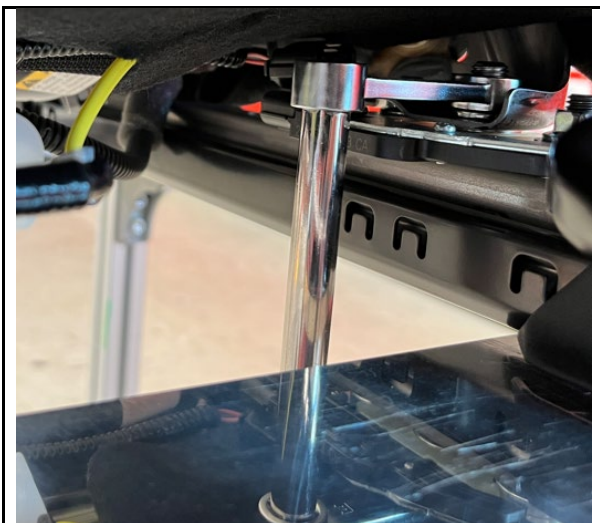
- The interference sleeve **MUST** not touch the seat frame on any side during the following steps.
- Confirm that the interference sleeve is free to spin after the torquing of each nut.
- If at any point the interference sleeve is no longer free to spin, the left side seat track nuts need to be removed, the seat track adjusted, and the nuts reinstalled.



- a) Re-install the left side rear seat track nut and check to ensure interference sleeve is still free to spin. If interference sleeve is not free to spin (making contact with the seat frame), loosen the rear seat track nut, adjust the seat assembly, and repeat this step

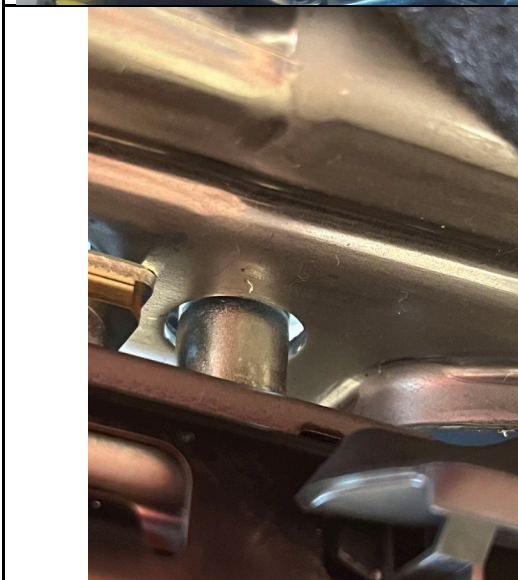
Original Torque Value: 37 N*m (27.5 ft.*lbf)

NOTE: The torque adapter **MUST** remain inline (parallel) with the torque wrench handle while torquing nuts. If torque wrench adapter is not parallel with the torque wrench handle while torquing, the effective length of the tool will be altered, causing torque calculations to be inaccurate.

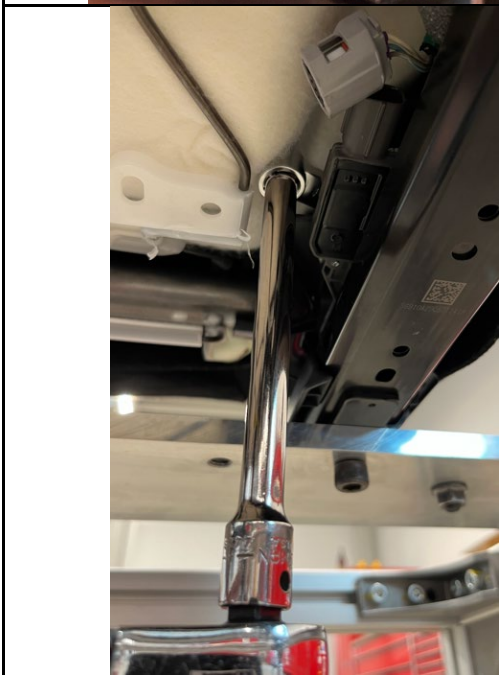


- b) Re-install the left side front seat track nut following the same process as the previous step.

Original Torque Value: 37 N*m (27.5 ft.*lbf)

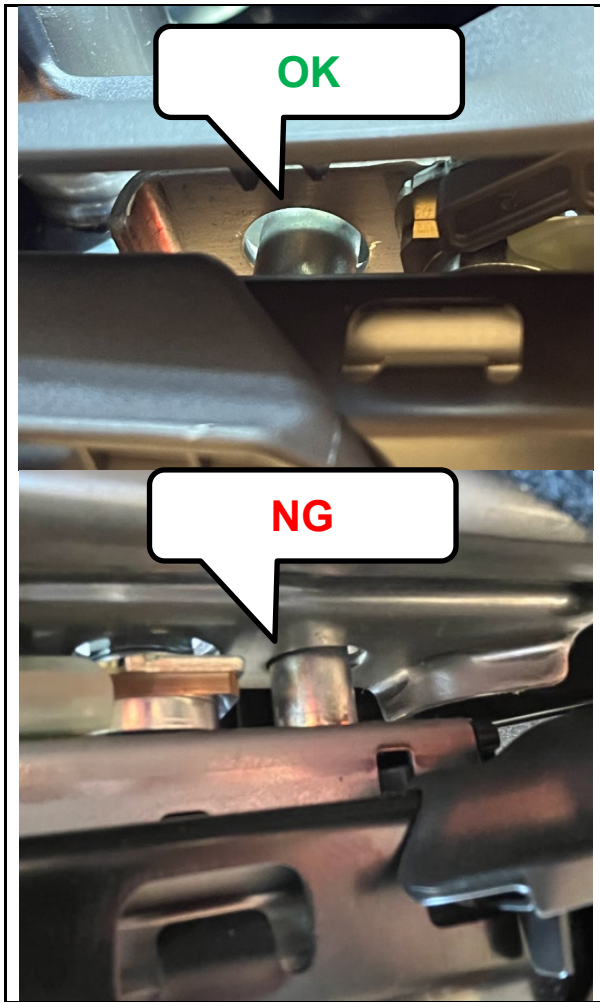


- c) Remove the tape from the interference sleeve and reinstall it to the stud.



- d) Re-install the interference sleeve nut.

Original Torque Value: 25 N*m (18 ft.*lbf)



- e) Confirm the status of the interference sleeve using a flashlight to shine light in the top side of the interference sleeve.

HINT:

If no interference exists between the lower seat frame and the spacer, the light can be seen all around. If there is interference, the light cannot be seen.

Does the interference sleeve touch the seat track on any side?

NG: Remove the left side seat track bolts and repeat the installation steps.

OK: Proceed to step 17.



17. RECONNECT BOTH FRONT AND REAR OCS CONNECTORS.



- 18. INSTALL THE PASSENGER SIDE FRONT SEAT CUSHION SHIELD**
- a) Install the passenger side front seat cushion shield following the repair manual instructions:
- [Corolla](#) (Step 37(b) -39(b) only)



- 19. REMOVE THE SEAT ASSEMBLY FROM THE JIG**
- a) Remove the 2 nuts and then remove the seat assembly from the jig.



- 20. REINSTALL PASSENGER FRONT SEAT**
- a) Install the passenger front seat following the repair manual steps:
- [Corolla](#)
- b) Continue to Zero Point Calibration section VIII.

VIII. CALIBRATION AND CONFIRMATION

1. PERFORM ZERO POINT CALIBRATION

- Refer to the Repair Manual for instructions on Vehicle Interior / SUPPLEMENTAL RESTRAINT SYSTEMS / OCCUPANT CLASSIFICATION SYSTEM / INITIALIZATION.
 - [Corolla](#)

2. PERFORM OCCUPANT CLASSIFICATION SYSTEM – DATA LIST/ACTIVE TEST

Occupant Detection

DTC
Data List
Active Test
Utility
Dual Data List

STATUS

MONITOR
Frame: -
Time: -
SamplingRate: 167ms
Flag Count: -

FL Sensor Weight Information	1.458 lbs	Yaw Rate/G Sensor Assembly Information	OK
RL Sensor Weight Information	1.360 lbs	Yaw Rate/G Sensor Voltage Invalid Flag	ON
Total Weight Information	2.818 lbs	Yaw Rate/G Sensor Malfunction Flag1	OK
Weight Forward and Rearward Difference	-0.097 lbs	Yaw Rate/G Sensor Invalid Flag1	ON
Airbag Total Weight	2.818 lbs	Passenger Detection(Airbag)	Normal Position
Weight Warning Total Weight	2.818 lbs	Passenger Detection(Belt Warning)	OFF/Child
VSC Status	ON	Driving Status	Stop
VSC Vehicle Speed	0.00 MPH	Passenger Buckle SW	Unset
VSC Zero Point1	0.0718 m/s ²	The Number of DTCs	0
VSC Zero Point2	0.0718 m/s ²		
VSC Calibration Status	Calibrated		
VSC Assembly Information	Normal Position		

All Data

Sort by default
Sort by name

Sort by selection
Sort by unit

Bar Chart
Line Chart
Table
Print

Ver2024.03.004.02 Subscription Expiration:365d
ONLINE

Action	4-Way Seat	6-Way / 8-Way Seat
Once the Zero Point Calibration has been completed, confirm the "Total Weight Information" at each numbered position.		
Seat Position Steps	● → ① → ②	● → ① → ② → ③ → ④
Confirmation Points	① ②	① ② ③ ④
Target Value	±3.70 lbs	±4.80 lbs

Occupant Detection

DTC
Data List
Active Test
Utility
Dual Data List

STATUS

MONITOR
Frame: -
Time: -
SamplingRate: 167ms
Flag Count: -

FL Sensor Weight Information	1.458 lbs	Yaw Rate/G Sensor Assembly Information	OK
RL Sensor Weight Information	1.360 lbs	Yaw Rate/G Sensor Voltage Invalid Flag	ON
Total Weight Information	2.818 lbs	Yaw Rate/G Sensor Malfunction Flag1	OK
Weight Forward and Rearward Difference	-0.097 lbs	Yaw Rate/G Sensor Invalid Flag1	ON
Airbag Total Weight	2.818 lbs	Passenger Detection(Airbag)	Normal Position
Weight Warning Total Weight	2.818 lbs	Passenger Detection(Belt Warning)	OFF/Child
VSC Status	ON	Driving Status	Stop
VSC Vehicle Speed	0.00 MPH	Passenger Buckle SW	Unset
VSC Zero Point1	0.0718 m/s ²	The Number of DTCs	0
VSC Zero Point2	0.0718 m/s ²		
VSC Calibration Status	Calibrated		
VSC Assembly Information	Normal Position		

All Data

Sort by default
Sort by name

Sort by selection
Sort by unit

Bar Chart
Line Chart
Table
Print

Ver2024.03.004.02 Subscription Expiration:365d
ONLINE

Action	4-Way Seat	6-Way / 8-Way Seat
Once the Zero Point Calibration has been completed, confirm the "Total Weight Information" at each numbered position.		
Seat Position Steps	● → ① → ②	● → ① → ② → ③ → ④
Confirmation Points	① ②	① ② ③ ④
Target Value	±3.70 lbs	±4.80 lbs

a) Refer to the Repair Manual for instructions on Vehicle Interior / SUPPLEMENTAL RESTRAINT SYSTEMS: OCCUPANT CLASSIFICATION SYSTEM: DATA LIST / ACTIVE TEST.

- [Corolla](#)
- [Corolla HV](#)

b) For 4-way seat:

Confirm that the Total Weight Information value is within ±3.70 lbs at each confirmation point.

HINT: Refer to the chart above for reference.

- 1) With the seat in the lowest and forward most position, move the seat to the rear most position and confirm the “Total Weight Information” value in the data list.
- 2) Move the seat to the forward most position and confirm the “Total Weight Information” value in the data list.

Do all the confirmation point values fall within the target range value?

YES – Proceed to **Step 3**.

NO – **STOP** and capture screen shots of Total Weight Information for each seat position. Contact FTS with screen shots to report the findings.

3. CONFIRM PASSENGER AIRBAG INDICATOR LIGHT OPERATION

a) Sit on the passenger front seat and confirm if the airbag light changes from “OFF” to “ON”.

Does the passenger airbag indicator light switch to ON?

YES – Campaign complete.

NO – Perform zero point calibration again and recheck.

◀ VERIFY REPAIR QUALITY ▶

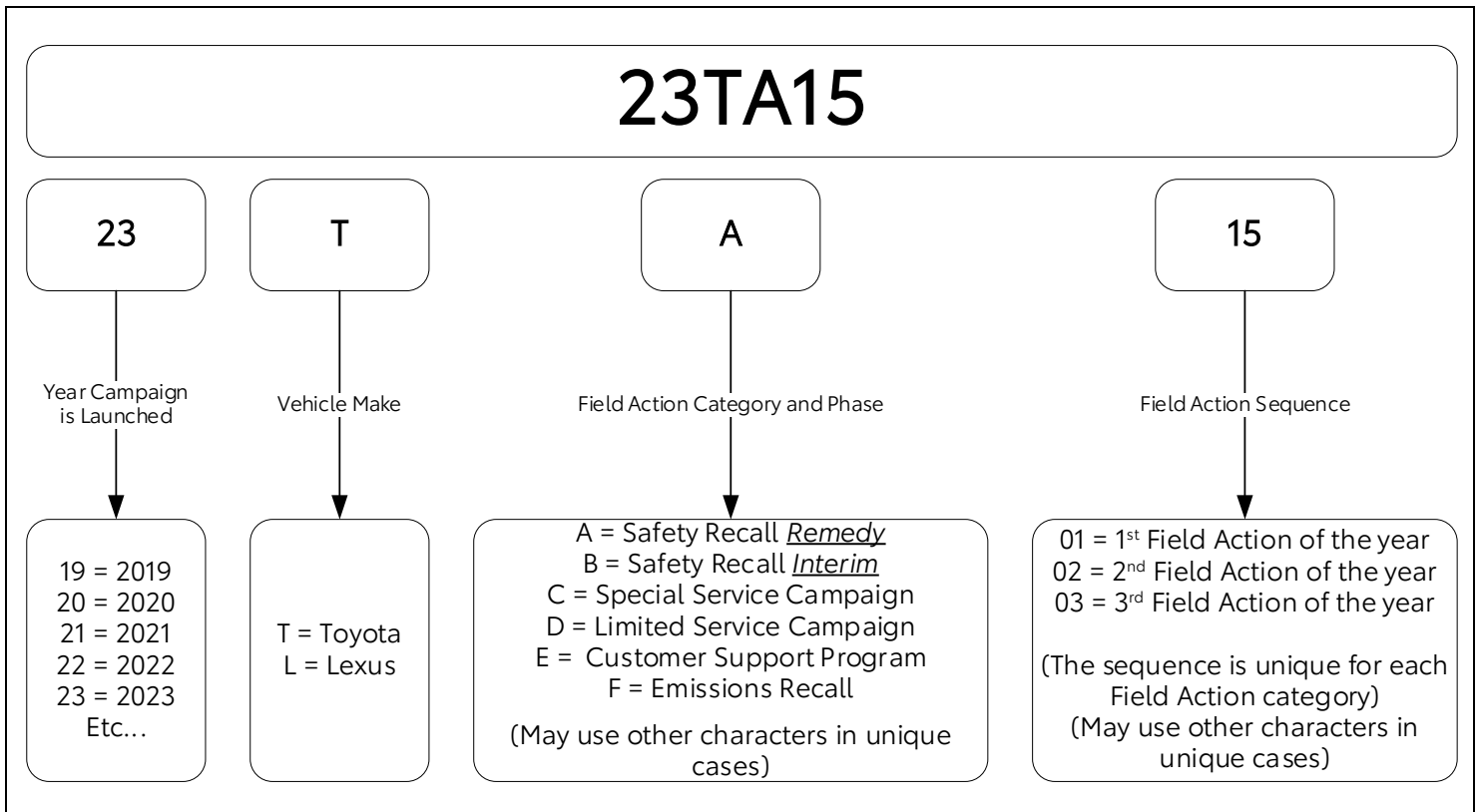
- Confirm all bolts are properly torqued.
- Confirm all seat track bolts and wire harness connectors are installed correctly.
- Confirm no DTCs present after repair.

IX. 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.***

B. CAMPAIGN DESIGNATION DECODER



Examples:

19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019

20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020

21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021