

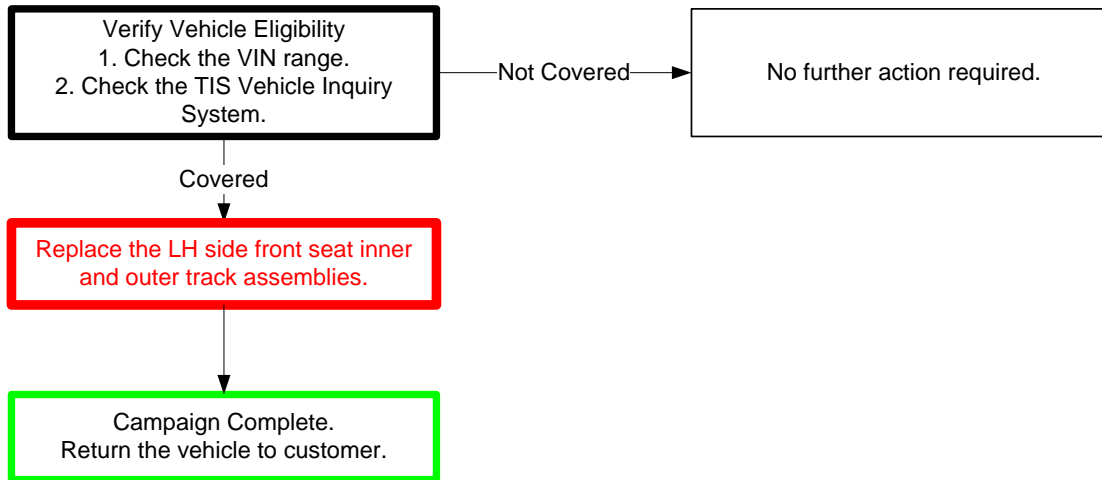
TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL E0L
DRIVER SIDE SEAT TRACKS REPLACEMENT
CERTAIN 2006-2010 YARIS 5 DOOR HATCHBACK
CERTAIN 2008-2010 SCION XD

All dealership associates involved in the recall process are required to successfully complete E-Learning course SC13A. To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently hold at least one of the following certifications levels:

- Toyota Certified (any classification)
- Toyota Expert (any classifications)
- Master
- Master Diagnostic Technicians

I. OPERATION FLOW CHART

The flow chart is for reference only. **DO NOT** use it in place of the full technical instructions. Follow **ALL** steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



II. BACKGROUND

In the seat rail of the driver and front passenger seats of the subject vehicles, the springs used for the mechanism which locks the seat rail in its adjusting positions could break. This can happen if the seat is adjusted forward and/or rearward with high frequency. If a seat rail spring breaks, the seat may not lock into the adjusted position. If the vehicle is operated with a broken seat rail spring, the seat could move in the event of a crash, increasing the risk of injury to the occupant.

III. PREPARATION

A. PARTS

Yaris 5 Door Hatchback

Part Number	Part Description	Quantity
04002-19252	Track Assy, FR Seat, LH	1
*The kit above contains the following parts		
72120 - 52051	TRACK ASSY, FR SEAT, OUTER LH	1
72118 - 52030	RAIL, FR INNER SEAT TRACK, LWR LH	1
72443 - 52010	NUT (INNER, Black)	4
90178 - 08012	NUT (OUTER, with thread locker)	4

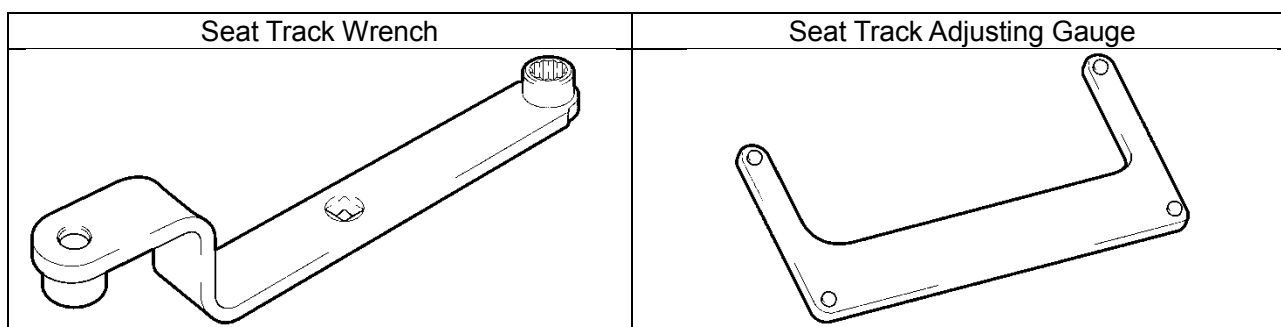
Scion xD

Part Number	Part Description	Quantity
04002-19652	Track Assy, FR Seat, LH	1
*The kit above contains the following parts		
72120 - 52151	TRACK ASSY, FR SEAT, OUTER LH	1
72140 - 52340	RAIL, FR INNER SEAT TRACK, LWR LH	1
72443 - 52010	NUT (INNER, Black)	4
90178 - 08012	NUT (OUTER, with thread locker)	4

B. TOOLS & EQUIPMENT

- Techstream
- Protective gloves
- T40 "Torx" socket
- Standard hand tools
- Seat cover
- Feeler gauge
- Torque wrench
- Round file

CAMPAIGN TOOLS



C. MATERIALS

- Protective Tape
- Protective Blanket
- Rope/Tie Down
- Packing Tape

IV. IDENTIFICATION OF AFFECTED VEHICLES

A. COVERED VIN RANGE

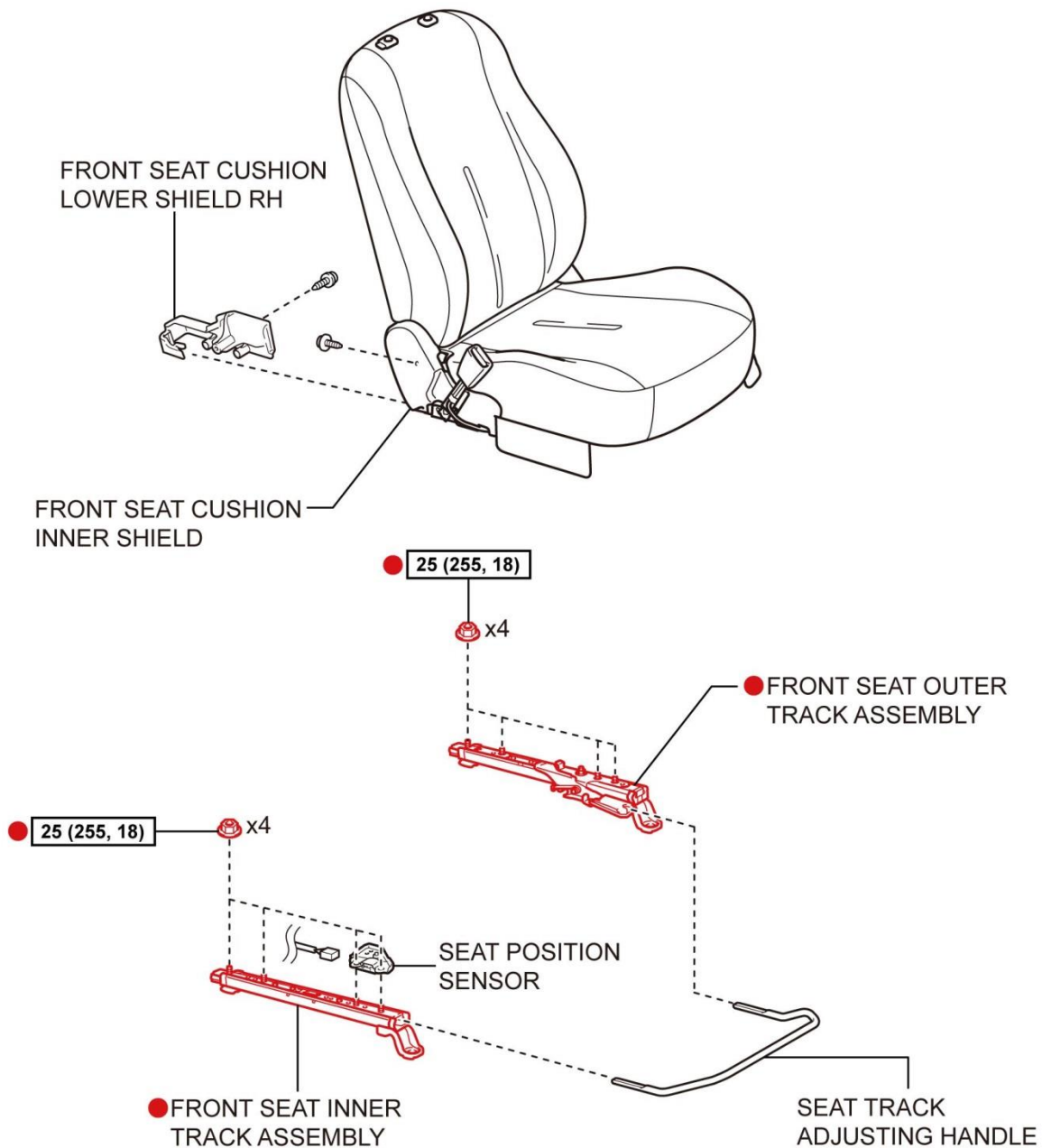
MODEL	WMI	VDS	MY	SERIAL MIN	SERIAL MAX
SCION xD	JTK	KU104	2008	J000109	J032918
			2009	J032919	J050531
		KU4B4	2010	1000101	1004910
				J050223	J059201
YARIS 5 DOOR HATCHBACK	JTD	KT4K3	2010	5278485	5317939
		KT903	2009	5221077	5278402
		KT923	2006	5009075	5029439
			2007	5029454	5138765
			2008	5138789	5218419
			2009	5221081	5278469
		KT9K3	2010	5278533	5317908

NOTE:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- **TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.**

V. WORK PROCEDURE

A. COMPONENTS



●:Component to be replaced

N*m (kgf*cm, ft.*lbf): Specified torque

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B. SEAT ASSEMBLY REMOVAL

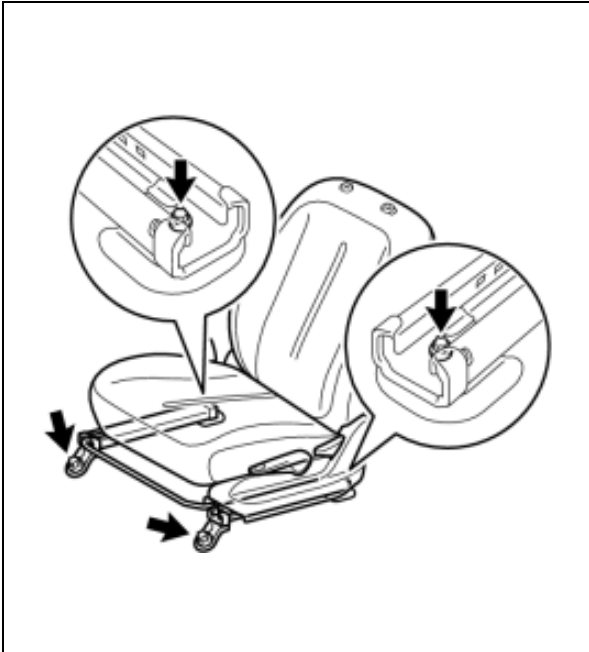
1. ADJUST THE POSITION OF THE SEAT

- Move the seat to the center position.
- Move the seatback to the upright position.

2. RECORD SYSTEM SETTINGS (RADIO PRESETS, A/C SETTINGS, ETC)
3. DISCONNECT THE NEGATIVE BATTERY TERMINAL (FOR VEHICLES EQUIPPED WITH SIDE AIRBAGS)



- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system.



4. REMOVE THE HEADREST ASSEMBLY

5. REMOVE THE SEAT ASSEMBLY BOLTS

- a) Cover exposed areas of interior trim with protective tape and place a soft blanket over the door panel to protect it while removing the seat.
- b) Remove the 4 bolts.

6. REMOVE THE SEAT ASSEMBLY

- a) Tip the seat back and disconnect the connectors on the bottom of the seat.
- b) Using 2 people, carefully remove the seat from the vehicle and place it on a clean bench.

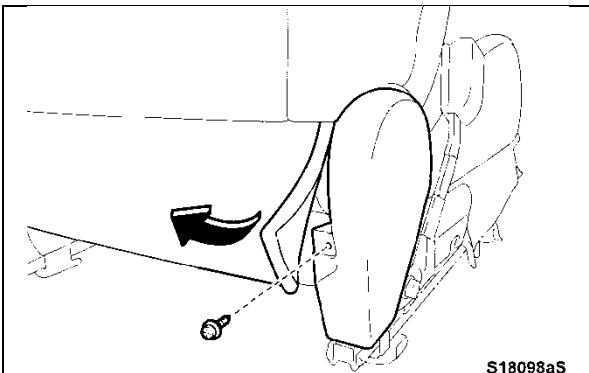


- Use care when removing the seat, if the vehicle is experiencing the recall condition the seat track rail may suddenly move while removing the seat.
- To prevent damaging and/or soiling of the seat, place the seat on a clean bench that has been covered with a clean blanket.

C. FRONT SEAT TRACK ASSEMBLY REMOVAL



DO NOT remove the outer seat cushion shield because the shield locking claw will be damaged.

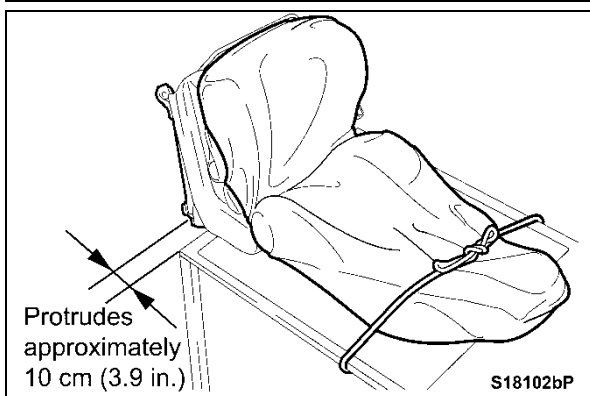


1. SEAT CUSHION INNER SHIELD ADJUSTMENT

- a) Pull the seat cover flap to the side and remove screw securing the inner cushion shield.
- b) Removing the screw will allow some play in the cushion shield to access the lower cushion shield.

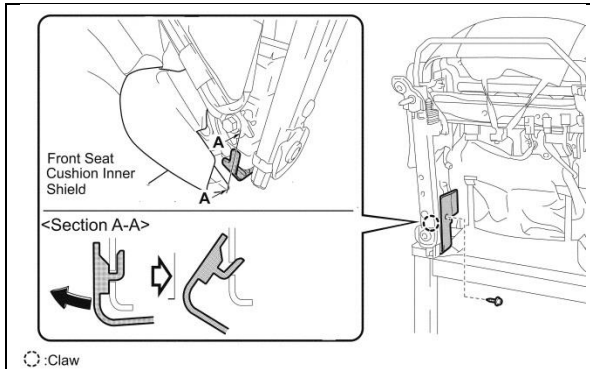


DO NOT remove the seat cushion shield because the shield locking claw will be damaged.



2. SECURE THE SEAT TO THE WORK BENCH

- Install the head rest and put a seat cover over the seat.
- Place the seat on its back and position the seat so that approximately 10 cm (4 in.) protrudes over the edge of the workbench.
- Secure the seat to the work bench with a rope or tie down.



3. REMOVE THE SEAT CUSHION LOWER INNER SHIELD

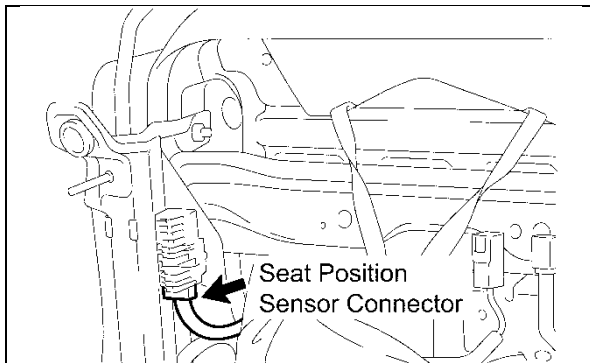
- Remove the screw securing the seat cushion lower cover to inside of the seat track.
- Gently angle the cover to release the claw.



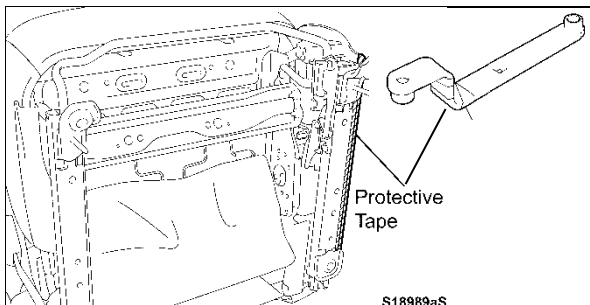
Ensure you DO NOT remove the seat cushion shield (should only be pulled to the side) which is covering the seat cushion lower inner shield.

4. REMOVE THE FRONT SEAT INNER AND OUTER TRACKS

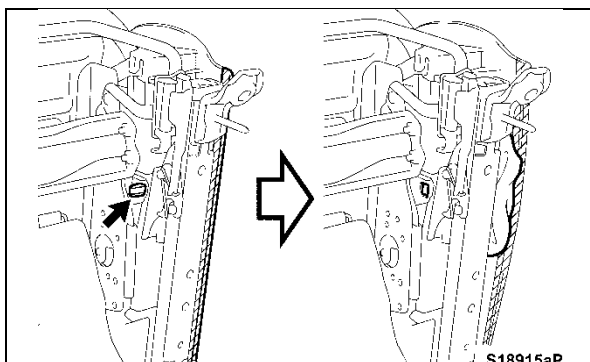
- Disconnect the seat position sensor connector.



- Attach protective tape to the edge of the outer cushion shield and seat track wrench as shown.



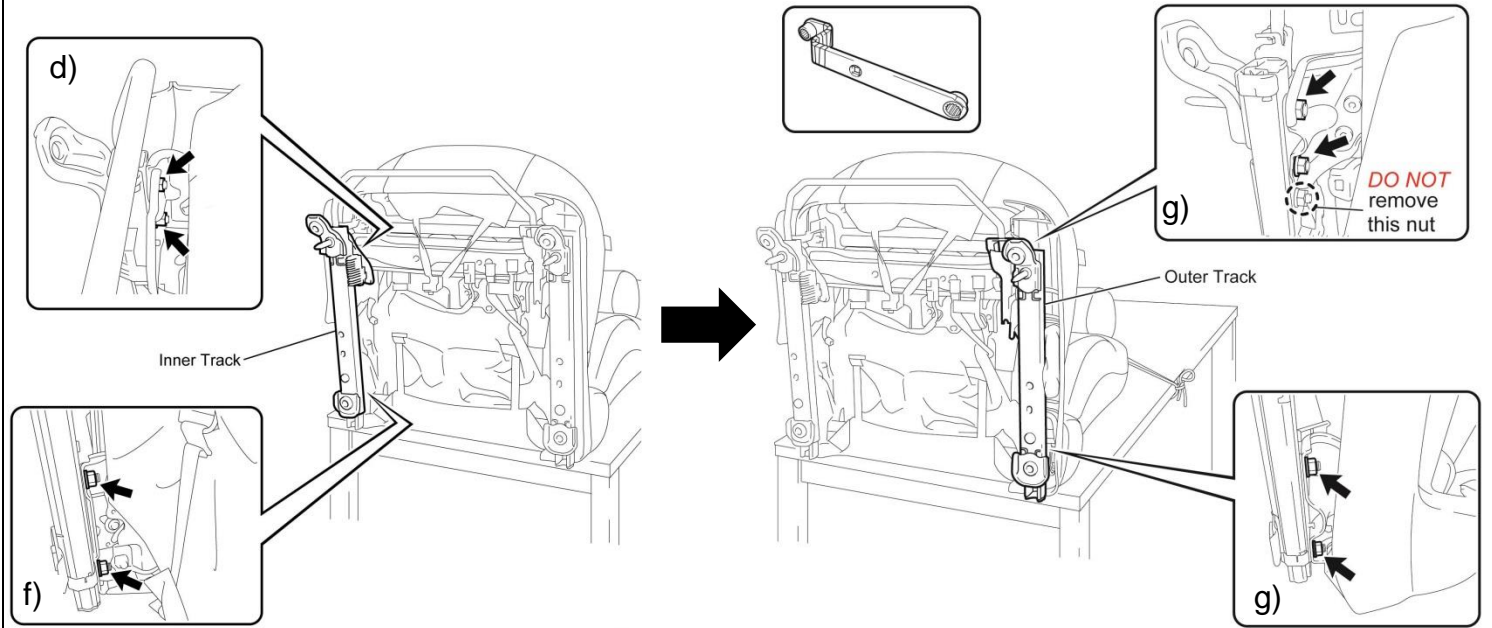
- Disengage the clip located in the center seat cushion shield.
- Place a clean cloth in between the seat cushion shield and outer track to keep the clip disengaged.



- e) Remove the 2 nuts securing the seat position sensor and front part of the seat track assembly.
- f) Place the seat position sensor in a safe location where it cannot be damaged.
- g) Remove the 2 remaining nuts securing the inner seat track.
- h) Using the seat track wrench, remove the 4 nuts from the outer track.
- i) Carefully remove both seat tracks from the seat assembly.



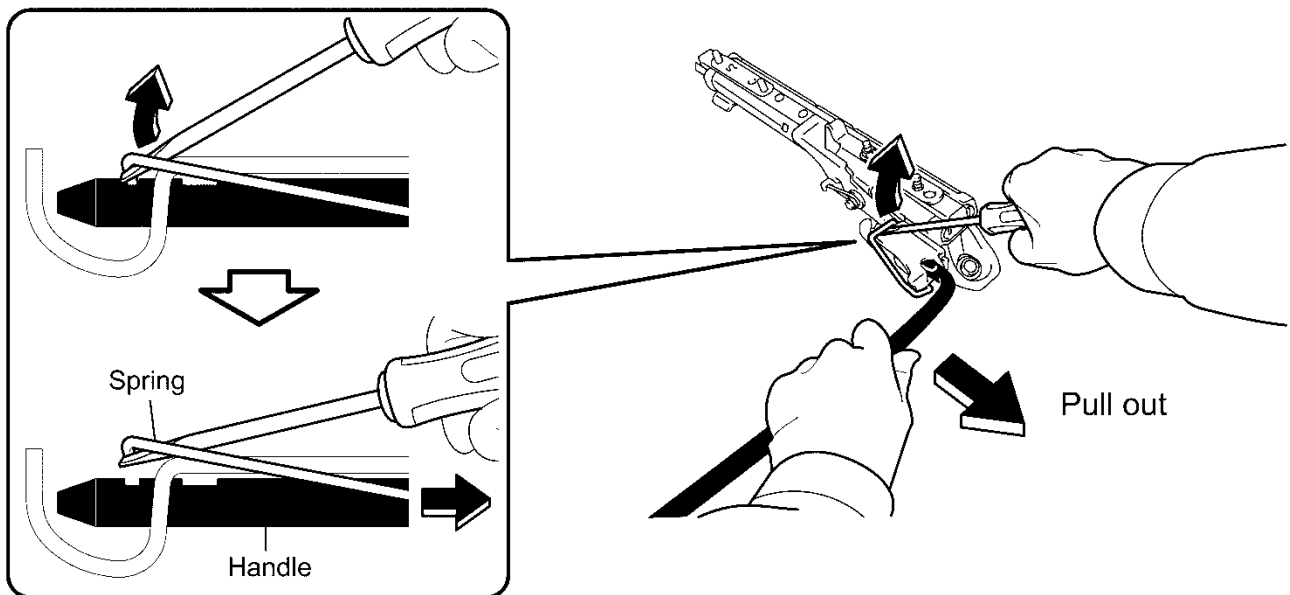
- Remove the seat position sensor first to ensure it is not dropped or damaged.
- **DO NOT** remove the nut identified below.



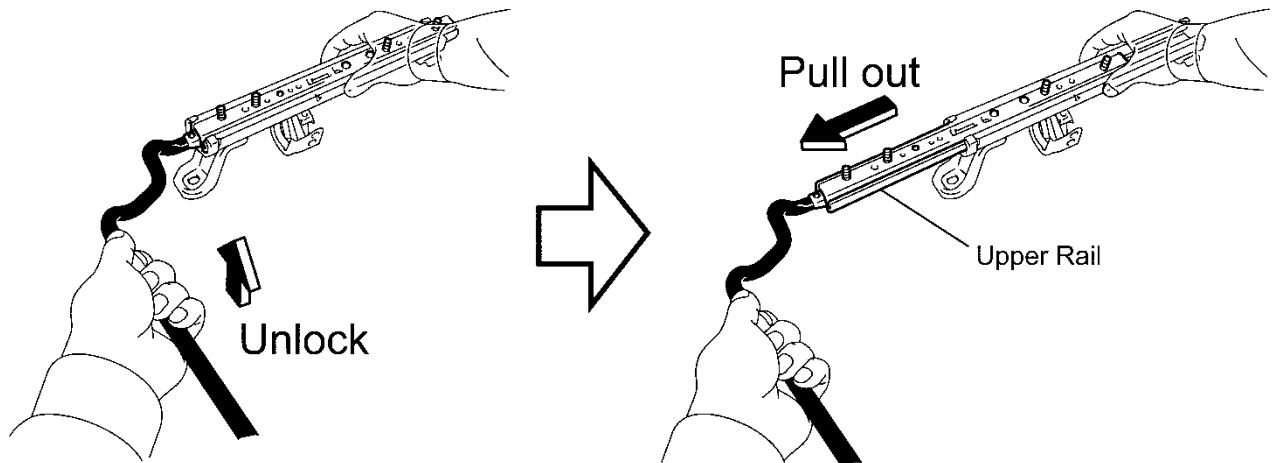
- j) Discard the old nuts to ensure that they are not reused.

5. REMOVE THE SEAT TRACK ADJUSTMENT HANDLE

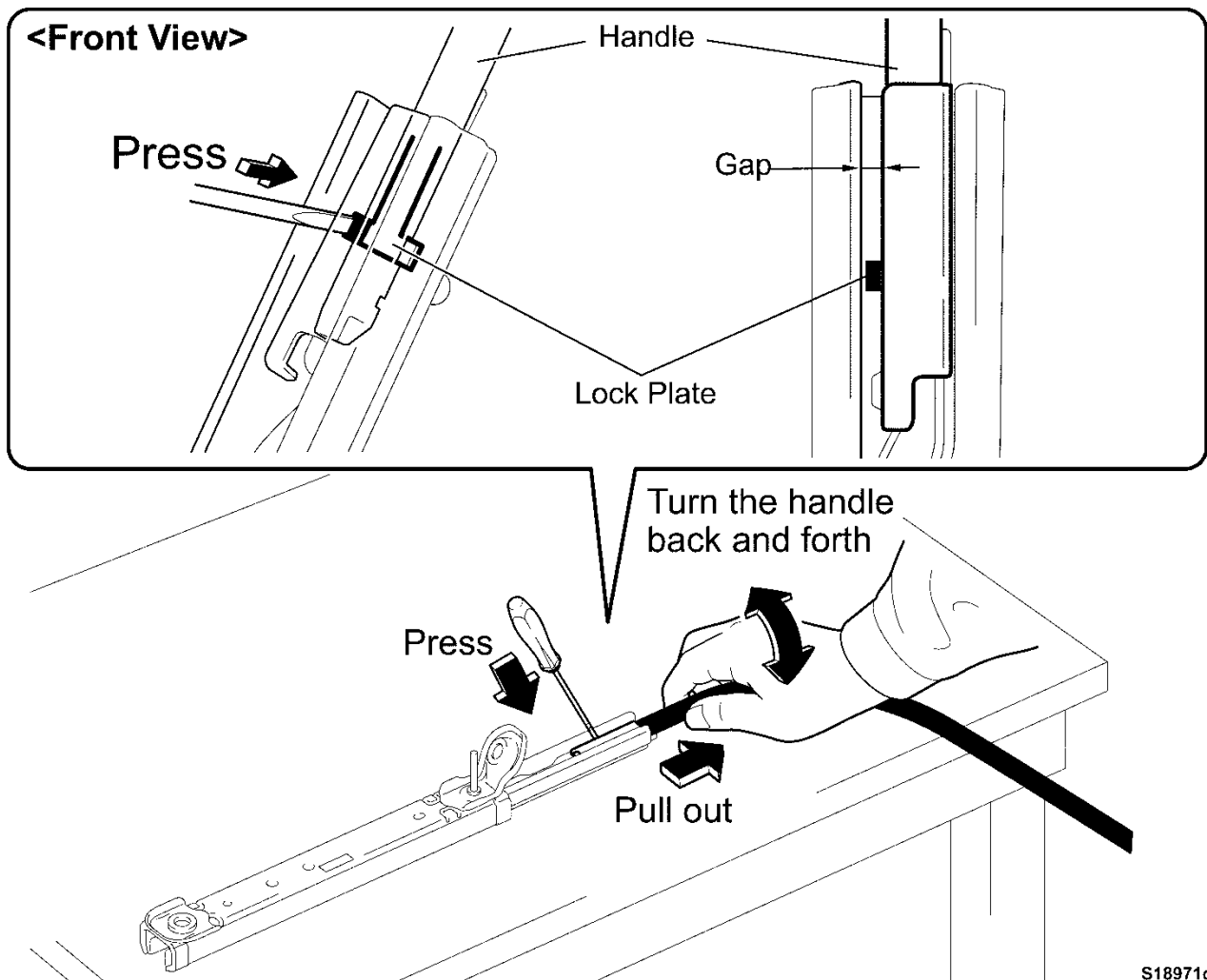
- a) Using a flat tip screw driver, disengage the spring by lifting the spring upward and pull out the adjusting handle from the seat track assembly.



- b) Lift the seat adjustment handle to release the lock and pull out the upper rail to access the adjustment handle lock plate.



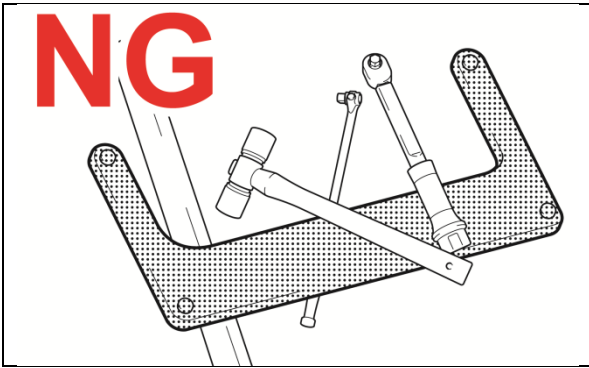
- c) Using a flat tip screw driver, press the lock plate down and lightly turn the adjustment handle back and forth to remove it from the seat track.



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- d) Mark the original seat tracks and place them in a location to prevent them from being reused.

D. **NEW** SEAT TRACK INSTALLATION



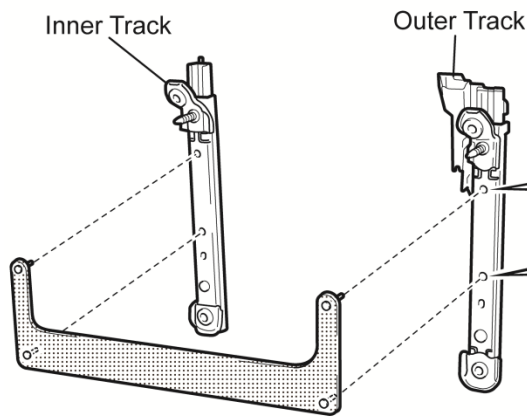
Be careful not to deform the seat track adjusting gauge while it is being stored.

1. CHECK ADJUSTING GAUGE PIN HOLES IN THE NEW SEAT TRACKS

- a) Check that the pins of the adjusting gauge can be smoothly inserted into the holes of the NEW seat tracks.



In extremely rare cases the gauge pins may not be able to be inserted due to the thickness of the seat track coating. If the gauge pins cannot be inserted refer to the appendix (Section VI) for repair instructions.



OK

Pin can be inserted smoothly



NG

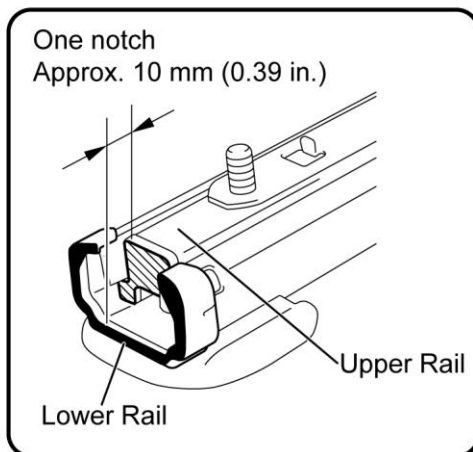
Pin cannot be inserted smoothly



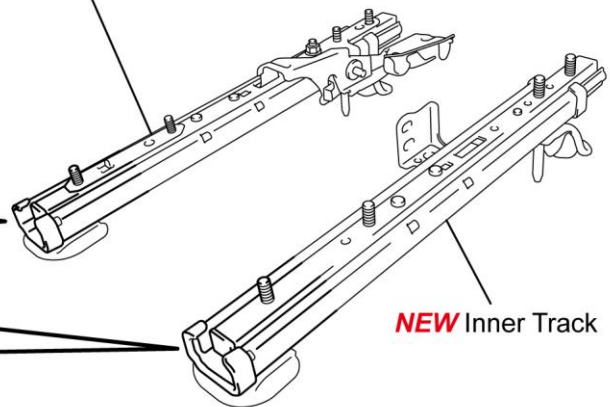
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2. CONFIRM THE INNER AND OUTER SEAT TRACK POSITIONS

- a) Confirm that the upper rail is positioned one notch (approx. 10mm, 0.39 in.) from the rear of the lower rail for both tracks.

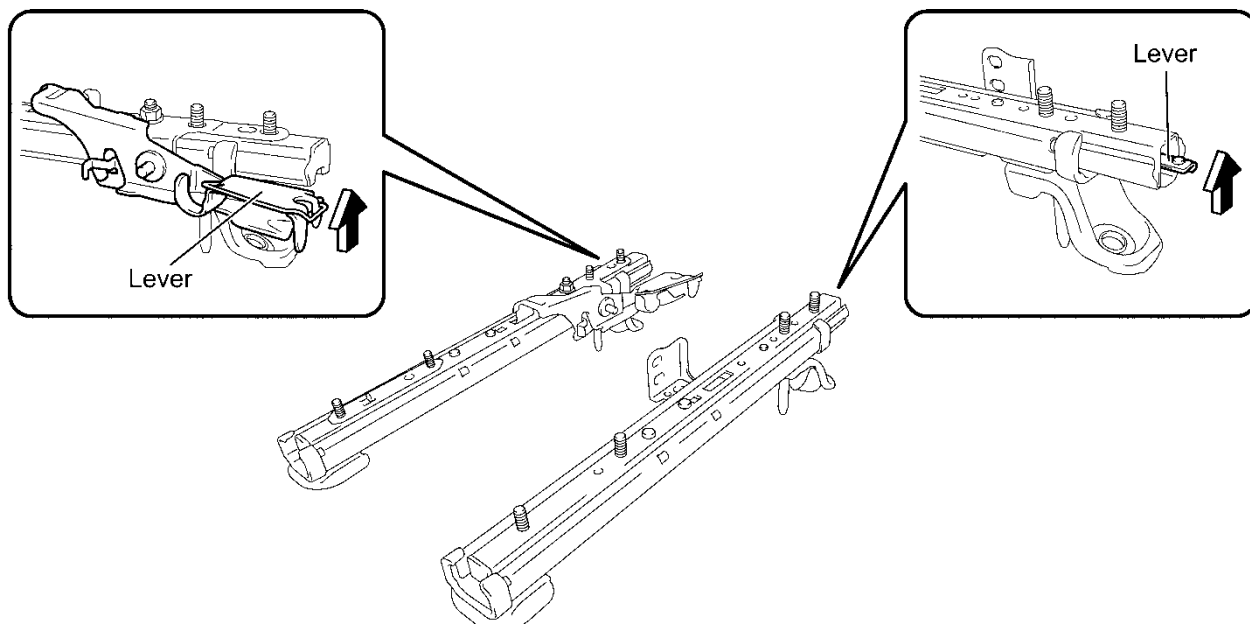


NEW Outer Track



NEW Inner Track

- b) If the upper rails are not in the correct position, pull the seat levers to adjust the upper rail position.

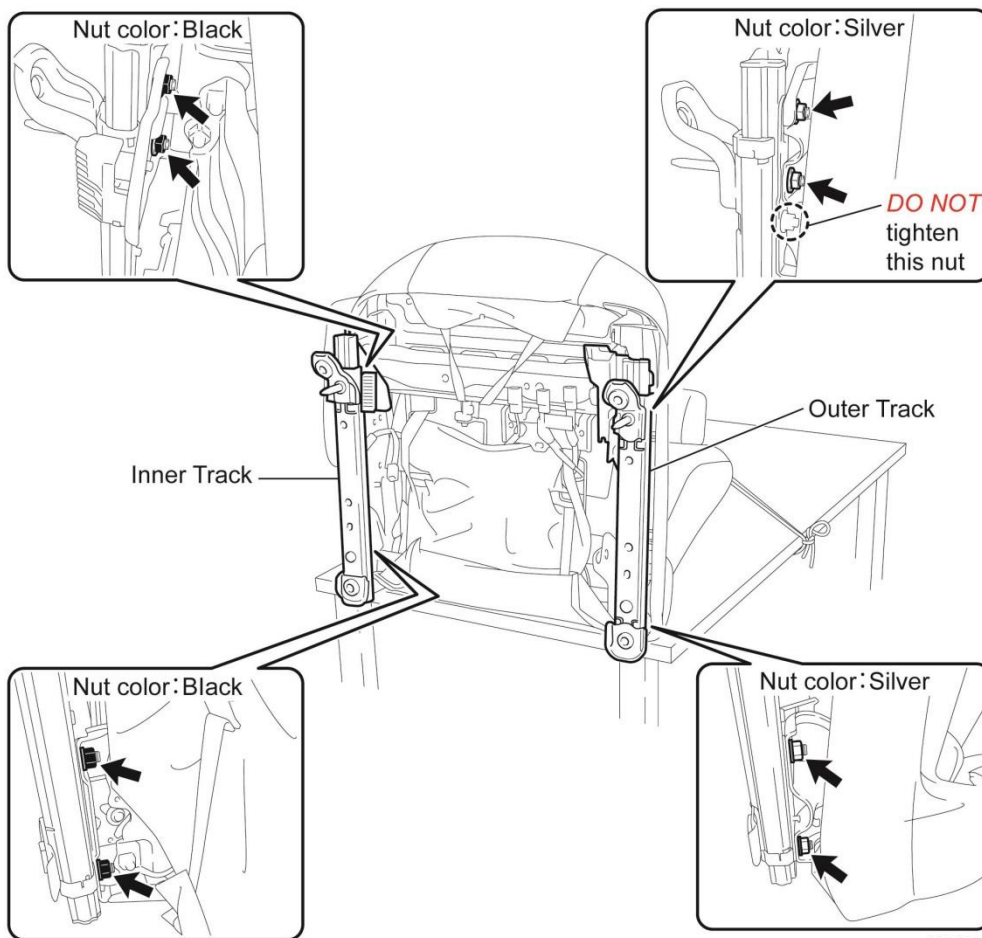


3. TEMPORARILY INSTALL **NEW** INNER AND OUTER SEAT TRACKS TO DRIVER SEAT

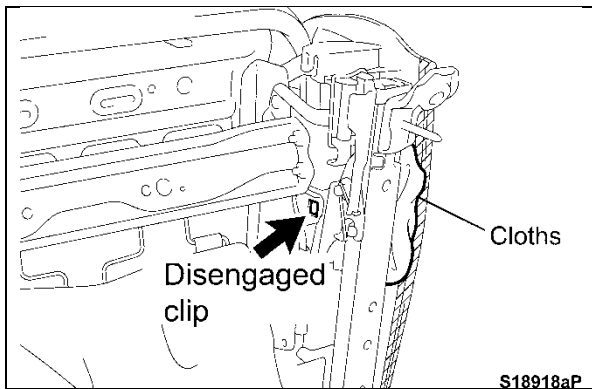
- a) Attach the new inner track and seat position sensor with the 4 NEW nuts (black), by hand tightening the nuts.
b) Attach the outer track with the 4 NEW nuts (silver), by hand tightening the nuts.



- **NEW nuts must be used.**
- **The nuts for the seat tracks are not interchangeable; attach the seat tracks with the correct nuts.**



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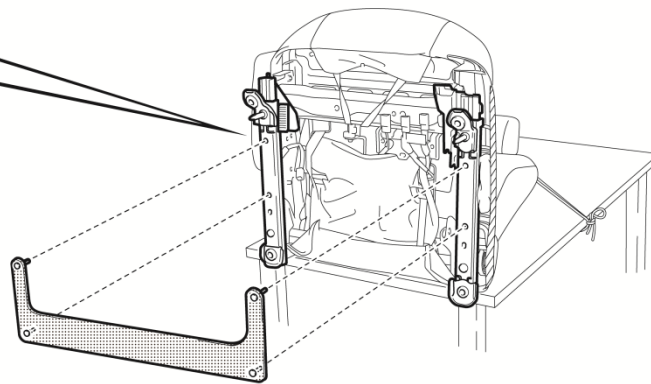
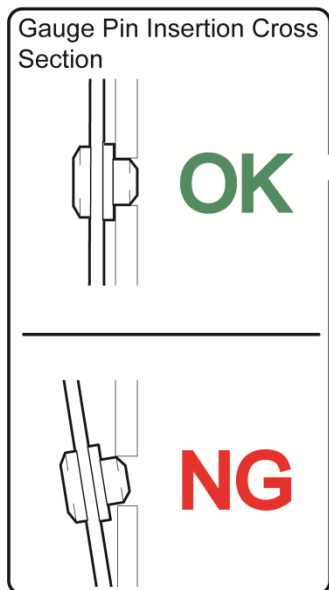


- c) Check that the center clip of the outer shield is still disengaged.
- d) In order to maintain the clip disengaged place a new clean cloth between the outer seat track and outer shield.

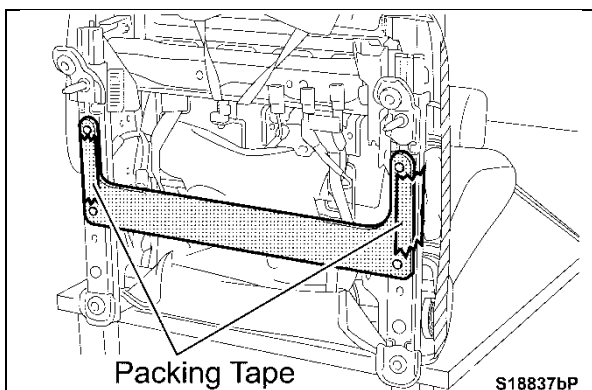
- e) Install the seat track adjustment gauge to the seat track holes and ensure that all 4 pins are properly installed and flush.



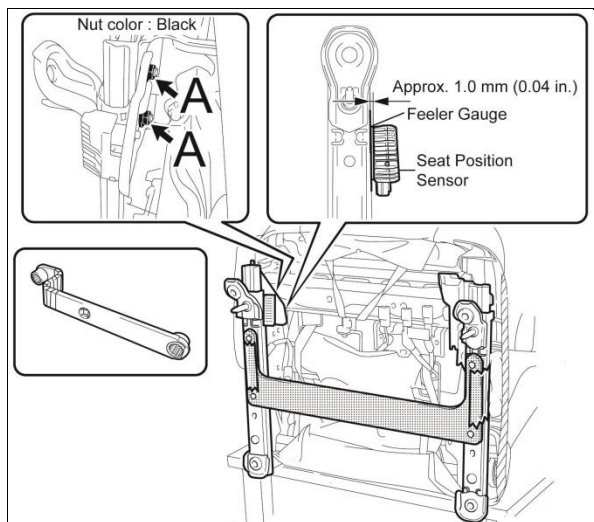
- Always use the gauge when installing the seat tracks to prevent the tracks from being misaligned.
- Do not press hard on the gauge, otherwise the gauge may become deformed.
- Ensure all 4 pins are properly installed.



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- f) Check that gauge pins are properly seated and secure the gauge to the seat assembly using packing tape.



- g) Using a feeler gauge, adjust the clearance between the inner track and seat position sensor so that it is approximately 1.0 mm (0.04 in)
- h) Using the seat track wrench, tighten the 2 nuts to spec.

Standard Torque: 25 Nm (255 kgf cm, 18 ft lbf)

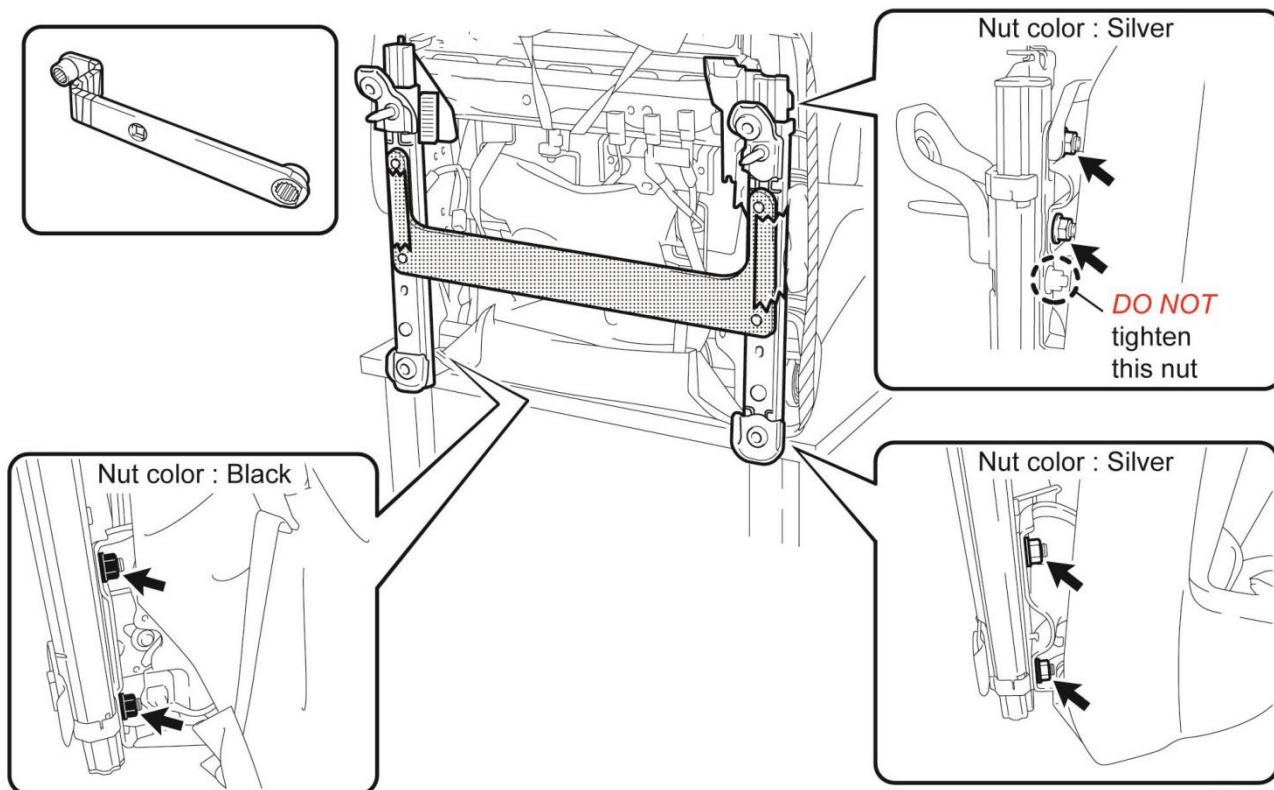
Torque table is used when using seat track wrench.

Torque Wrench Length (in.)	Calculated Torque (ft·lbf)
10" to 11"	13
12" to 15"	14
16" to 20"	15

NOTE: The seat track wrench provided *MUST* be used when using the values in the table.

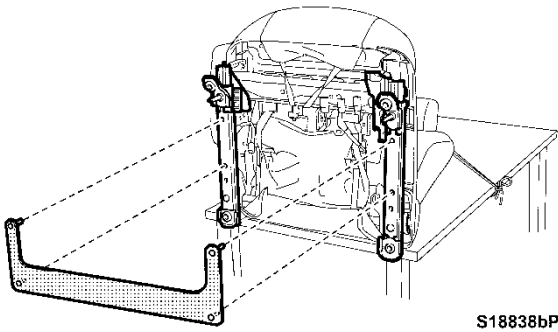
- i) Remove the feeler gauge.

- j) Using the seat track wrench, tighten the remaining 6 nuts to spec.
- k) Ensure that the track adjustment gauge pins are still flush with the seat track and that the track orientation did not move while torquing the nuts.



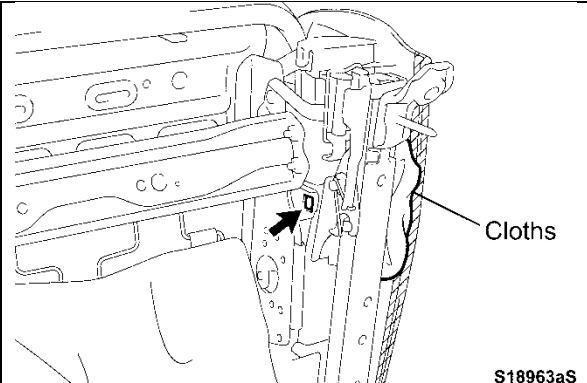
- Always use the gauge when installing the seat tracks to prevent the tracks from being misaligned.
- Do not press hard on the gauge; otherwise the gauge may become deformed.
- Ensure all 4 pins are properly installed before and after torquing the nuts.

Remove the gauge



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l) Remove the adjustment gauge.



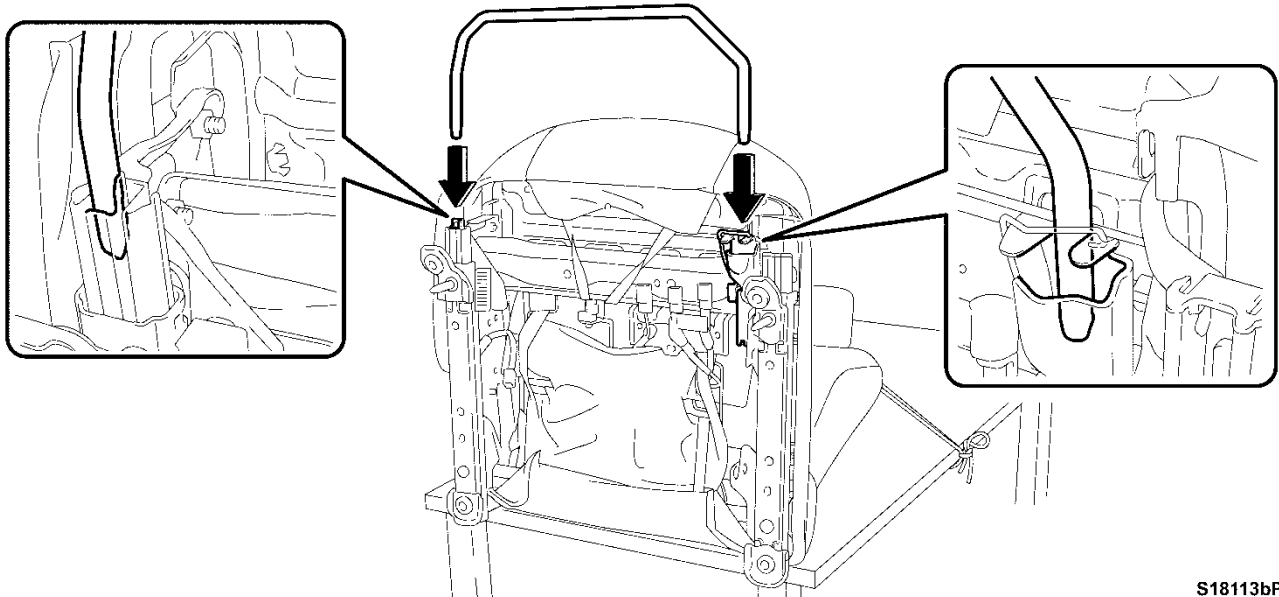
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m) Remove the cloth and protective tape.

n) Engage the center clip of the seat cushion outer shield.

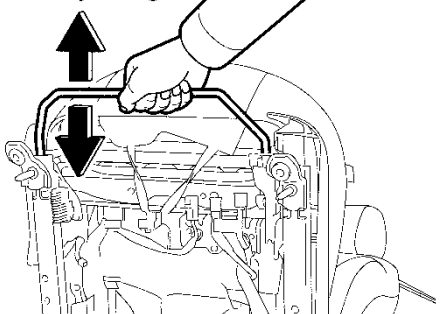
4. REINSTALL SEAT TRACK ADJUSTMENT BAR

a) Insert the both sides of the adjustment bar at the same time into the seat tracks and engage the locking plate and spring.



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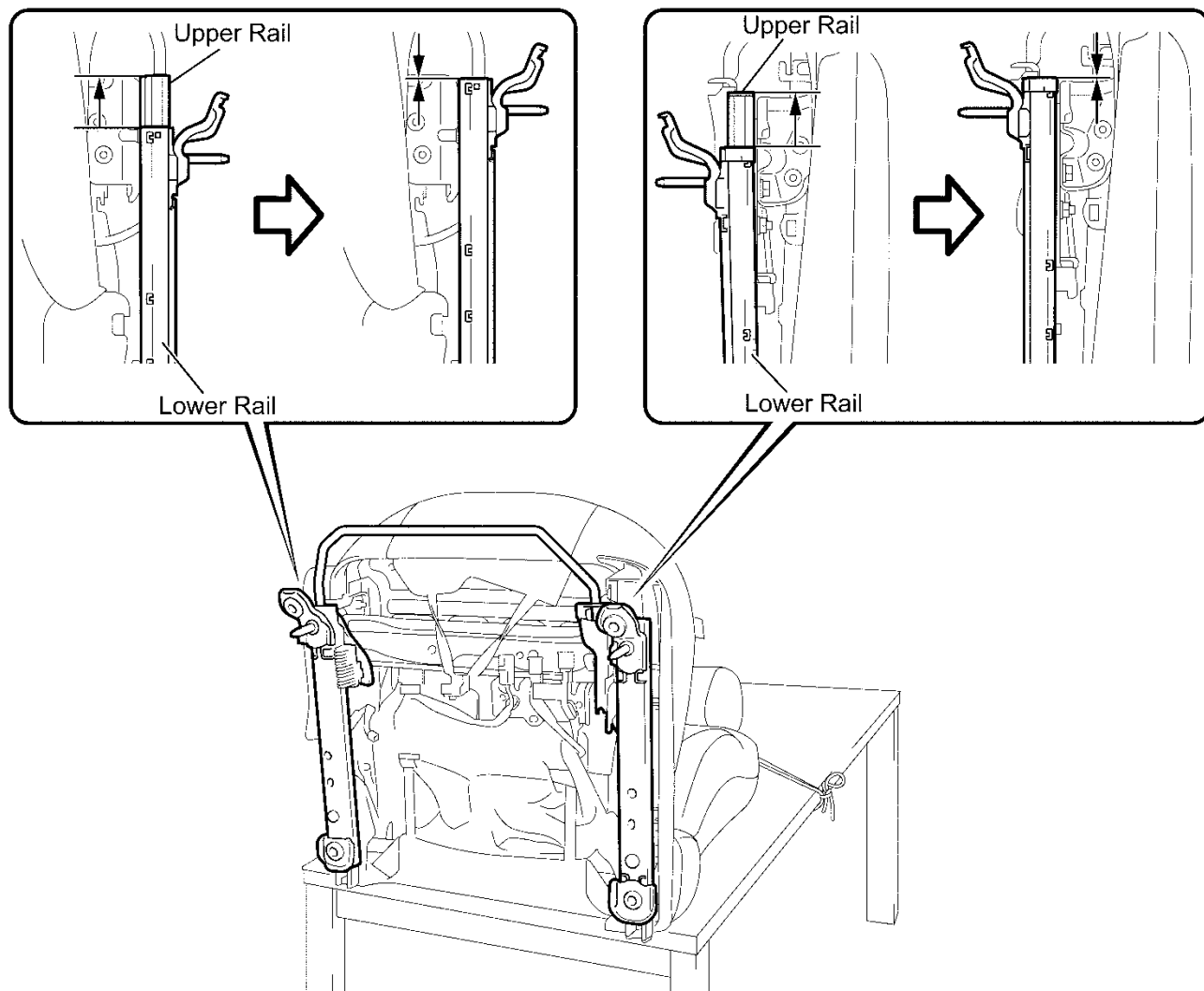
Confirm the adjusting handle is reinstalled



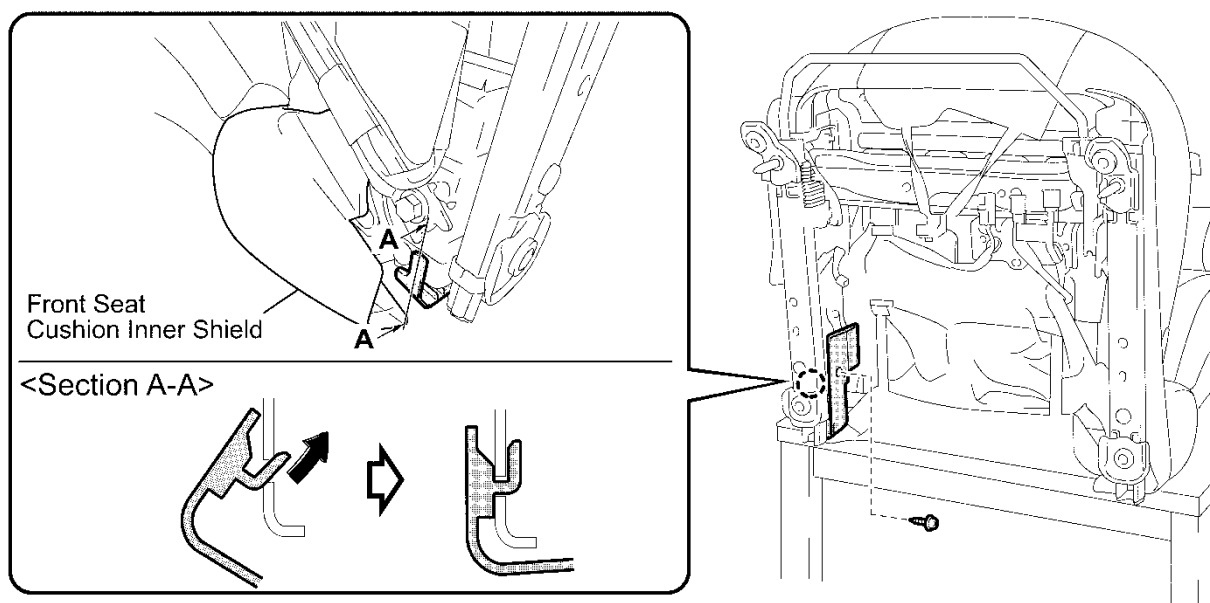
b) Confirm that the seat adjustment handle is fully seated and secured by the locking plate and spring.

5. ADJUST SEAT RAIL POSITION

- a) Adjust the seat rail position so that the upper and lower seat rail are flush in the front: this will make it easier to install the seat in the car.

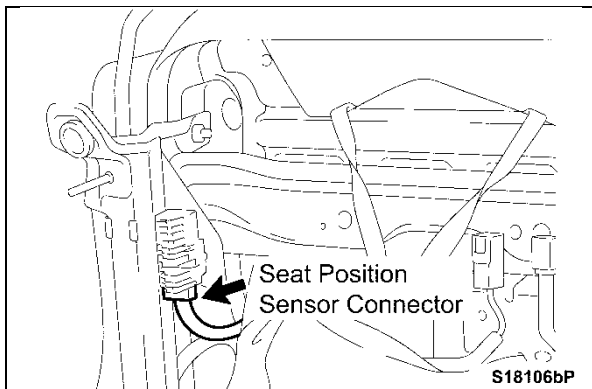


6. REINSTALL FRONT SEAT CUSHION LOWER SHIELD

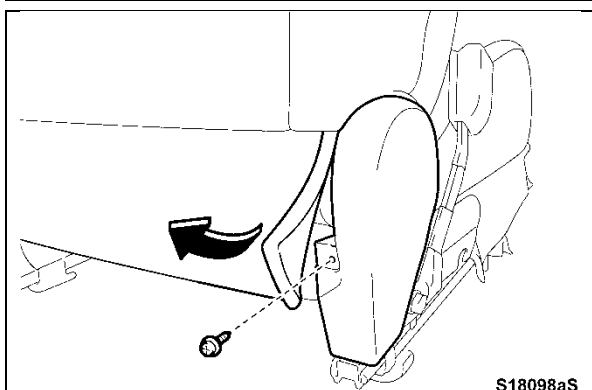


○:Claw

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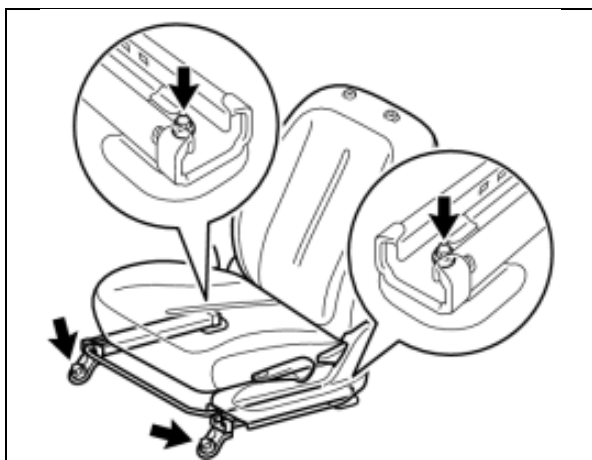
7. RECONNECT THE SEAT POSITION SENSOR CONNECTOR



8. REINSTALL SEAT CUSHION INNER SHIELD SCREW

- Remove the rope/tie down securing the seat to the table.
- Remove the seat cover.
- Reinstall the seat cushion inner shield.

E. FRONT SEAT REINSTALLATION



1. REINSTALL THE SEAT INTO THE VEHICLE

- Using 2 people carefully place the seat into the vehicle.
- Align the alignment pins on the front of the seat tracks with alignment holes in the floor pan.
- Tilt the seat back and reconnect the connectors.
- Reinstall the 4 seat bolts and torque to spec.

Torque: 37 Nm (375 kgf cm, 27ft lbf)

- Reinstall headrest.
- Remove protective tape and protective blanket.

2. RECONNECT BATTERY (FOR VEHICLES EQUIPPED WITH SIDE AIRBAGS)

- Reconnect battery ground cable.
- Reset radio and car presets.

◀ VERIFY REPAIR QUALITY ▶

- Confirm that the correct nuts are used for each seat track
- Confirm that the seat tracks are aligned properly both before and after torquing the seat track nuts
- Confirm that the seat track nuts are torque to spec
- Confirm that the seat position sensor gap is correctly set
- Confirm that the seat is clean and free of dirt and grease.

If you have any questions regarding this **recall**, please contact your regional representative.

VI. APPENDIX

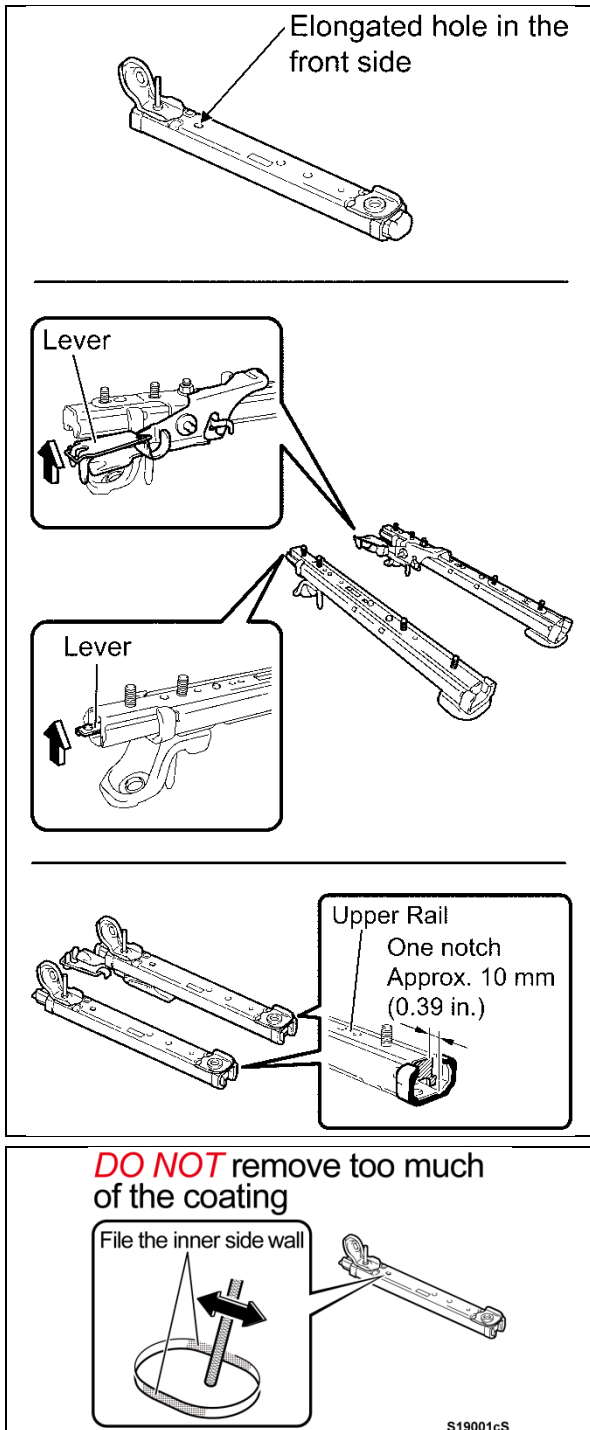
A. SEAT TRACK ALIGNMENT HOLE COATING REMOVAL



- Only remove coating from the holes that do not allow the gauge pins to seat flush.
- DO NOT file the coating too much, only remove the coating as necessary.

1. DETERMINE WHICH HOLES PREVENT THE TOOL FROM SITTING FLUSH

2. ELONGATED ALIGNMENT PIN HOLE COATING REMOVAL



- Confirm that the upper rail is positioned one notch (approx. 10mm, 0.39 in.) from the rear of the lower rail for both tracks.
- If the upper rail is not in the correct position, pull the seat levers to adjust the upper rail positions.



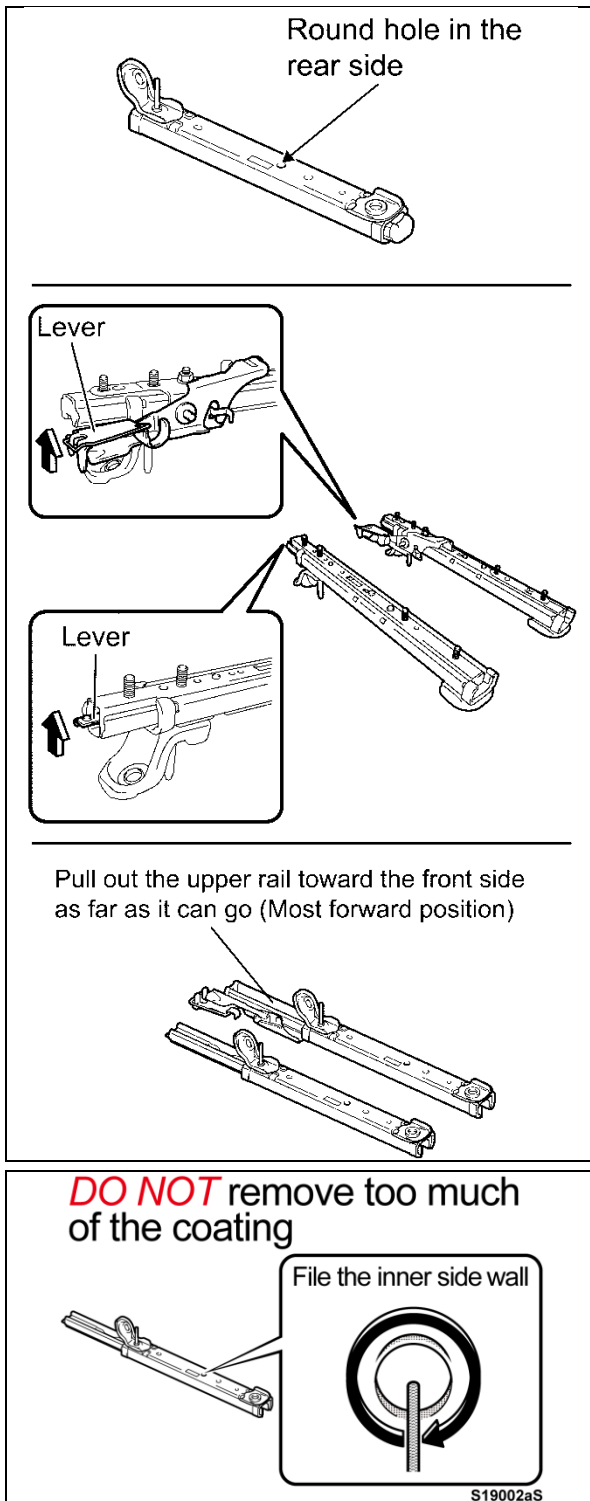
If the upper rail is not in the specified position, damage to the seat track can occur from the filings.

- Using a round file, remove a little bit of the coating on the inner side wall.
- Check to see if the gauge alignment pin will fit properly.
- If not repeat steps c) and d) until it fits properly.



DO NOT remove too much of the coating. Otherwise the alignment gauge pin can easily move or come out during seat track installation.

3. ROUND ALIGNMENT PIN HOLE COATING REMOVAL



- a) Pull the seat adjustment lever and adjust the upper rail so that it is in the forward most position.



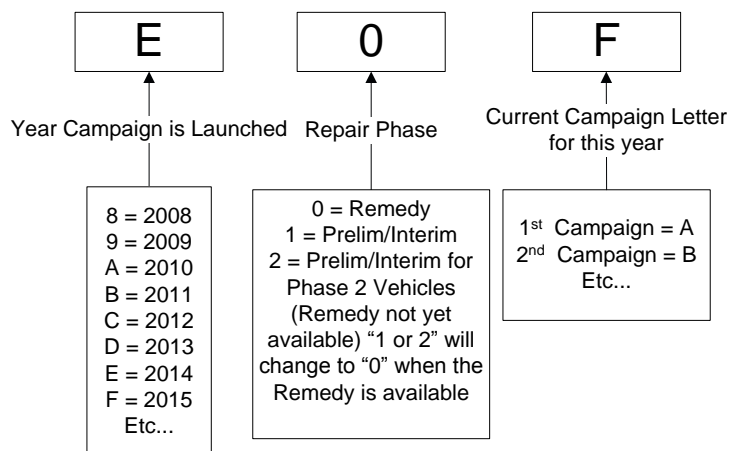
If the upper rail is not in the specified position, damage to the seat track can occur from the filings.

- b) Using a round file, remove a little bit of the coating on the inner side wall.
c) Check to see if the gauge alignment pin will fit properly.
d) If not repeat steps c) and d) until it fits properly.



DO NOT remove too much of the coating. Otherwise the alignment gauge pin can easily move or come out during seat track installation.

A. CAMPAIGN DESIGNATION DECODER



B. CAMPAIGN PARTS DISPOSAL

Make sure all campaign 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.***