THIS LSC EXPIRES DECEMBER 31, 2017



FOR

LIMITED SERVICE CAMPAIGN

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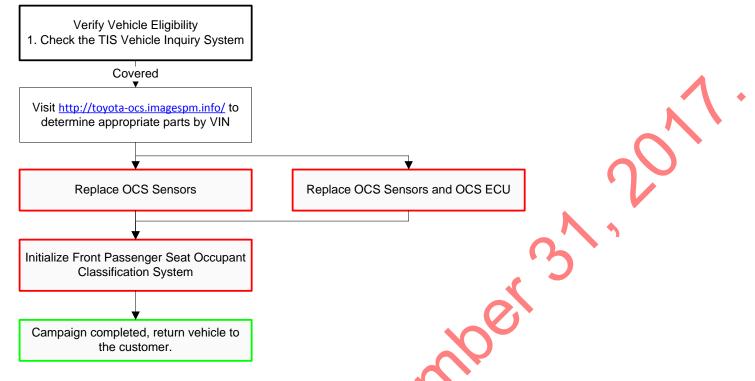
OCCUPANT CLASSIFICATION SYSTEM (OCS) SENSOR

CERTAIN 2012 – 2013 MODEL YEAR PRIUS C

All dealership associates involved in the campaign 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 <u>at least one</u> of the following certifications levels:

- Toyota Expert (Electrical)
- Master
- Master Diagnostic Technicians

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

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NOTE:

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- 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.

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III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity	
04004-71147	SENSOR KIT, WEIGHT DETECTOR*	1	ĺ
	*The kit above includes the following parts.		
89105-47030	SENSOR SUB-ASSY, WEIGHT DETECTOR FR INN	1	
89106-47030	SENSOR SUB-ASSY, WEIGHT DETECTOR FR OUT	1	
Part Number	Part Description	Quantity	
04004-61452*	COMPUTER, OCCUPANT DETECTION*	1	
*The OSC ECU will or	nly be replaced on small number of vehicles. Refer to the we	ebsite below to determine if	
the OCS ECU needs	to be replaced:		
	http://toyota-ocs.imagespm.info/		
	Default Password: xxxxx	\mathcal{O}	

B. TOOLS & EQUIPMENT

- Standard Hand Tools
 Tech
 - Techstream
 - Torque Wrench

SST- These are essential special service tools that the dealership should have.

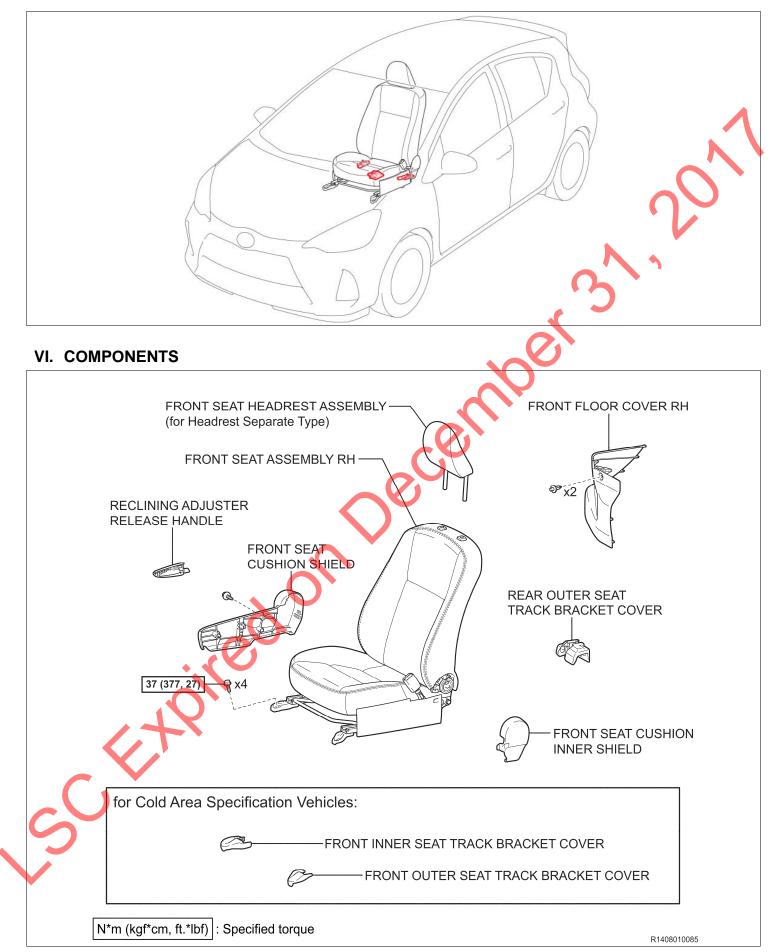
Part Number	Description	Quantity
00002-06000-01	Plastic Pry Tool Set	1
00002-09077-01	OCCUPANT SEAT WEIGHTS	1

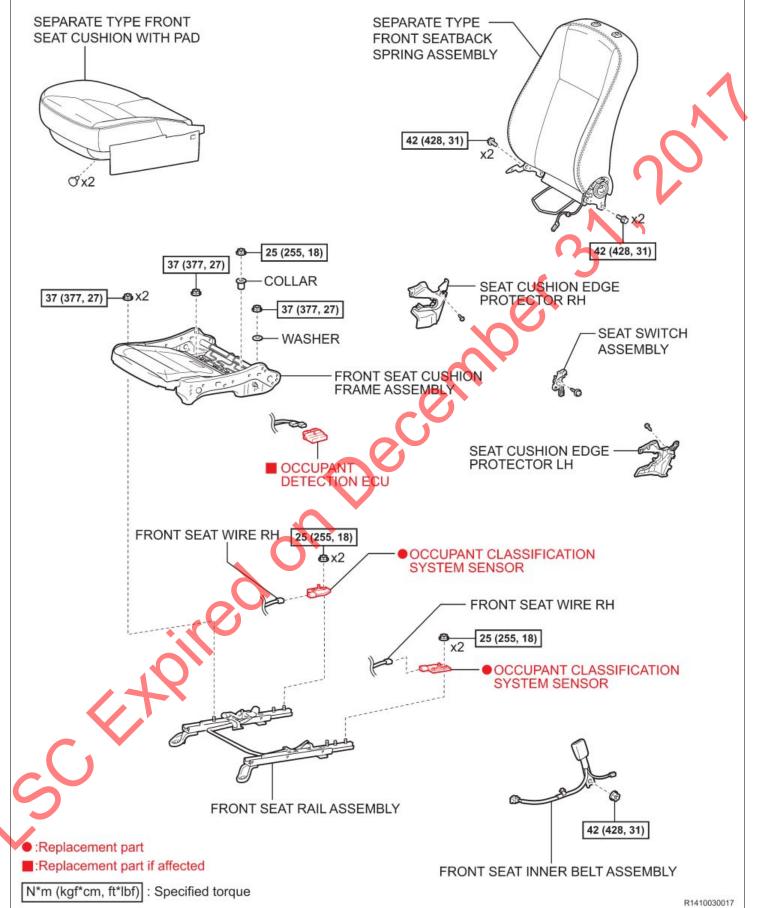
IV. WORK PROCEDURE TABLE OF CONTENTS

COMPONENTS			SECTION VII
REPLACE THE OCCUPANT CLASSIFICATIO	ON SYS	STEM SENSOR	SECTION VIII.
APPENDIX······			

V. BACKGROUND

The front passenger seat assembly is equipped with sensors for the occupant classification system which are used to control the operation of supplemental restraint systems (SRS), including the front passenger airbag. The sensors classify the weight of the occupant and activate or deactivate the front passenger airbag accordingly. Additionally, the sensors are used to detect certain vehicle collisions. Due to the current collision detection thresholds, the system may interpret certain occupant seating usages or road conditions as a rear collision and illuminate the Airbag Warning Light and "AIR BAG OFF" indicator, disabling the front passenger airbag.





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VII. REPLACE THE OCS SENSORS

1. CHECK FOR DTCs



This campaign only covers the replacement of the OCS sensors and on a small number of vehicles the OCS ECU.

- No other components in the SRS system are covered by this campaign.
- a) Using Techstream, perform a health check to confirm if there are any SRS system related DTCs present in the system (<u>current, history or pending</u>).

NOTES:

- Ensure that the Techstream software is 9.2 or higher.
- On the "connect to vehicle" screen, enter the VIN number to ensure that the vehicle information is uploaded to TIS.
- Record any SRS system DTCs to aid in any additional dicussions needed with the customer.

2. RECORD SYSTEM SETTINGS

a) Record any audio and climate control settings prior to disconnecting the negative battery terminal.

3. INSPECT THE OPERATION OF THE RIGHT FRONT SEAT SLIDING & RECLINING FUNCTIONS

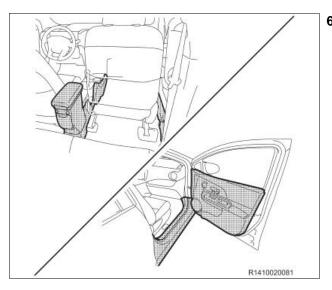
- a) Slide the right front seat fully forward.
- b) Slide the seat back slowly ensuring that the seat fully locks into each position.
- c) Check that the backrest operates smoothly and fully locks in each position.



In case of locking failure, replace the lower seat frame. Confirm the proper seat operation to compare with step 34.

4. RECORD THE POSITION OF THE RIGHT FRONT SEAT

	5. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
	a) Remove the 2 clips.
	b) Disengage the 3 clips.
	c) Disengage the 3 guides and remove the cover.
∴ Clip Clip Clip Clip Clip Clip Clip Clip	d) Disconnect the negative battery cable.
B301468E01	NOTE: Always disconnect the negative terminal before working with any SRS components in order to prevent unintentional deployment. Wait 90 seconds or more after disconnecting the negative terminal before performing any work due to the backup power supply equipped to the airbag system.



6. INSTALL PROTECTIVE COVERS

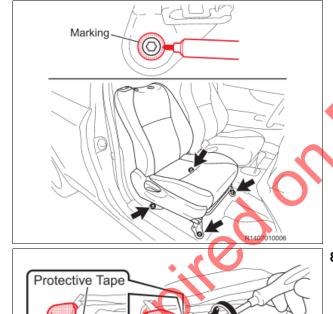
 Apply protective covers to the following areas to prevent interior parts and the vehicle body from being damaged during R&R of the right front seat.

7. REMOVE THE RIGHT FRONT SEAT

- When replacing the OCS sensor, it is necessary to mark the position of certain parts prior to removal in order to assure proper alignment during reassembly.
- DO NOT operate any lever during seat transportation.

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- DO NOT damage interior components during R&R of the right front seat.
- 2 may be required when removing the front seat from the vehicle.



⊖:Claw

- a) Remove the headrest.
- b) Remove any seat track covers (if equipped).
- c) Mark the 4 seat mounting bolts as shown.
- d) Remove the 4 seat mounting bolts.

Disconnect each connector and clamp under the seat.

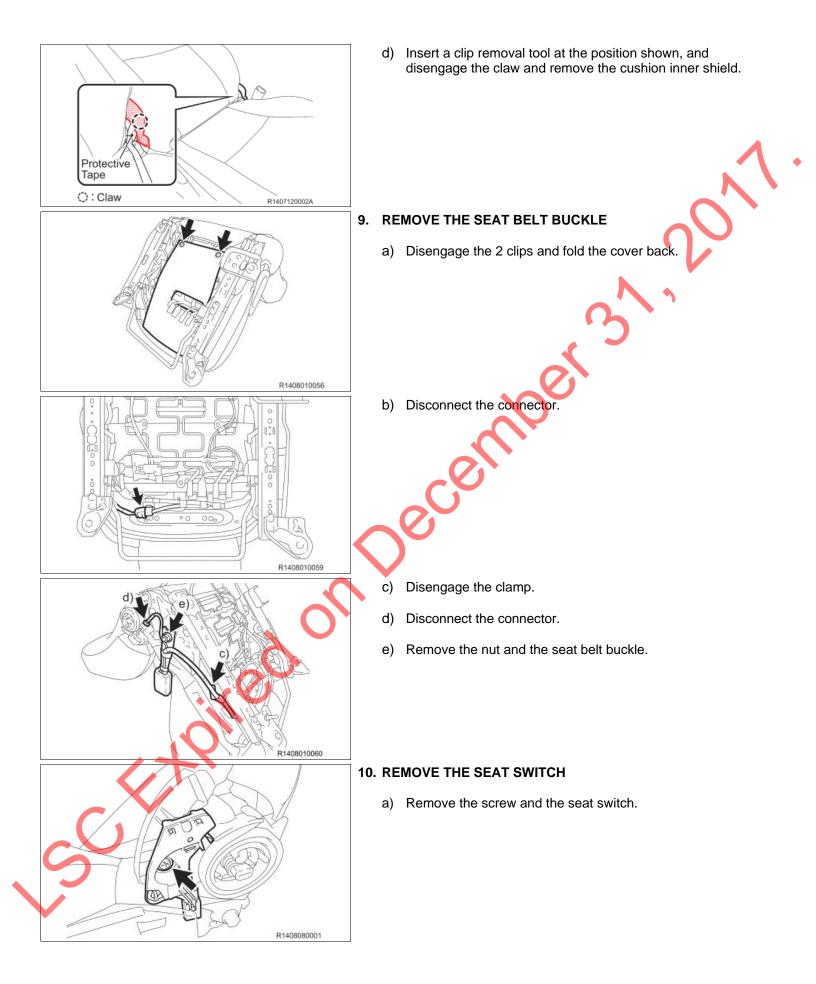
f) Remove the seat, and place it on a clean workbench.

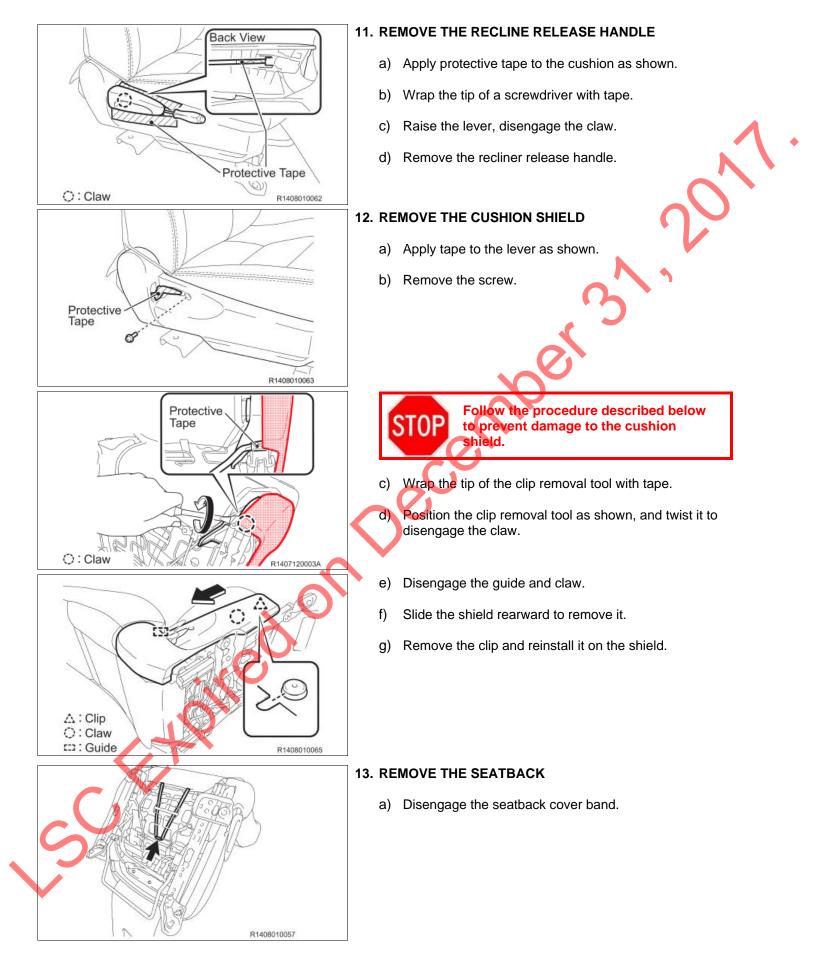
8. REMOVE THE CUSHION INNER SHIELD

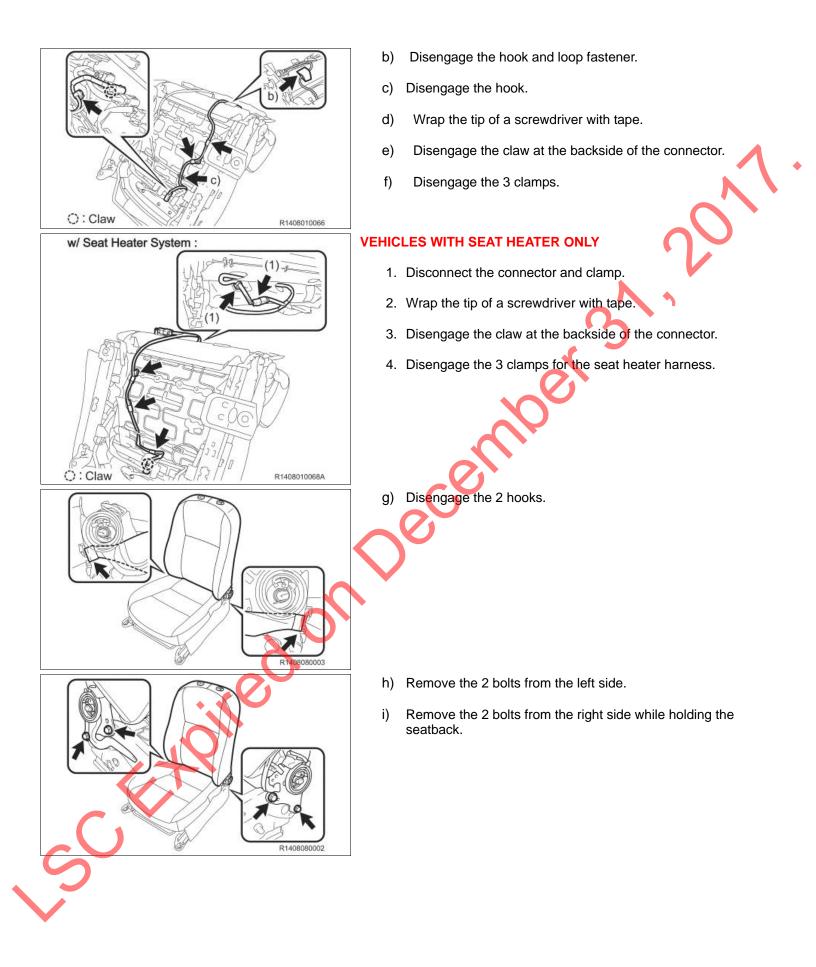


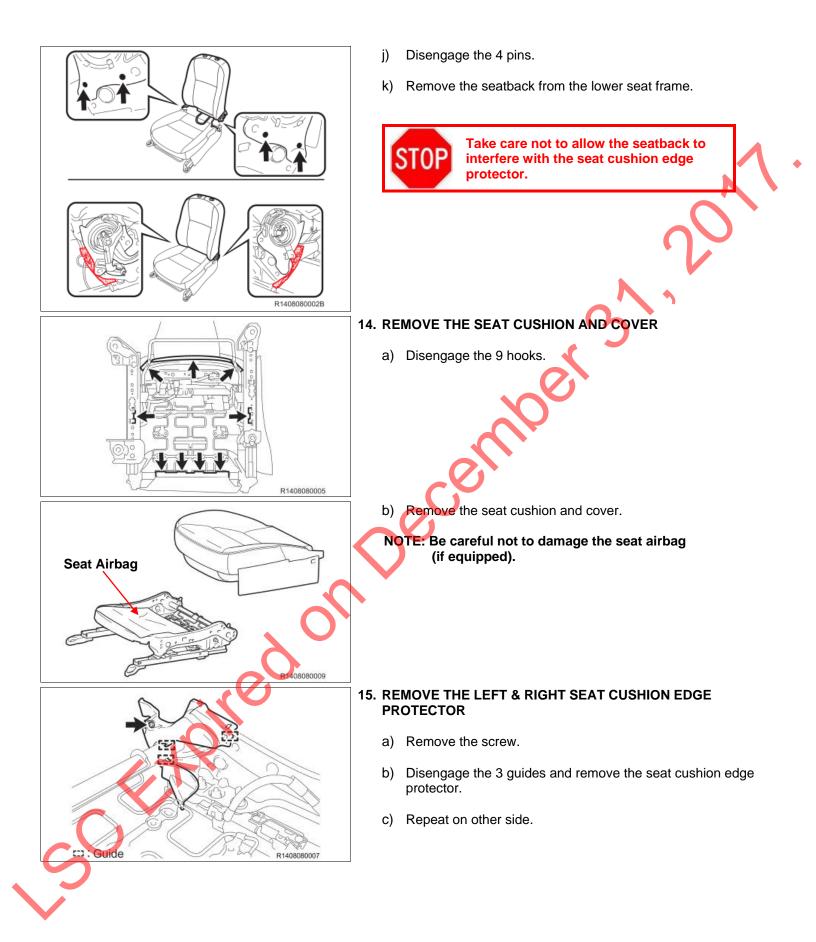
Follow the procedure described to prevent damage to the cushion inner shield.

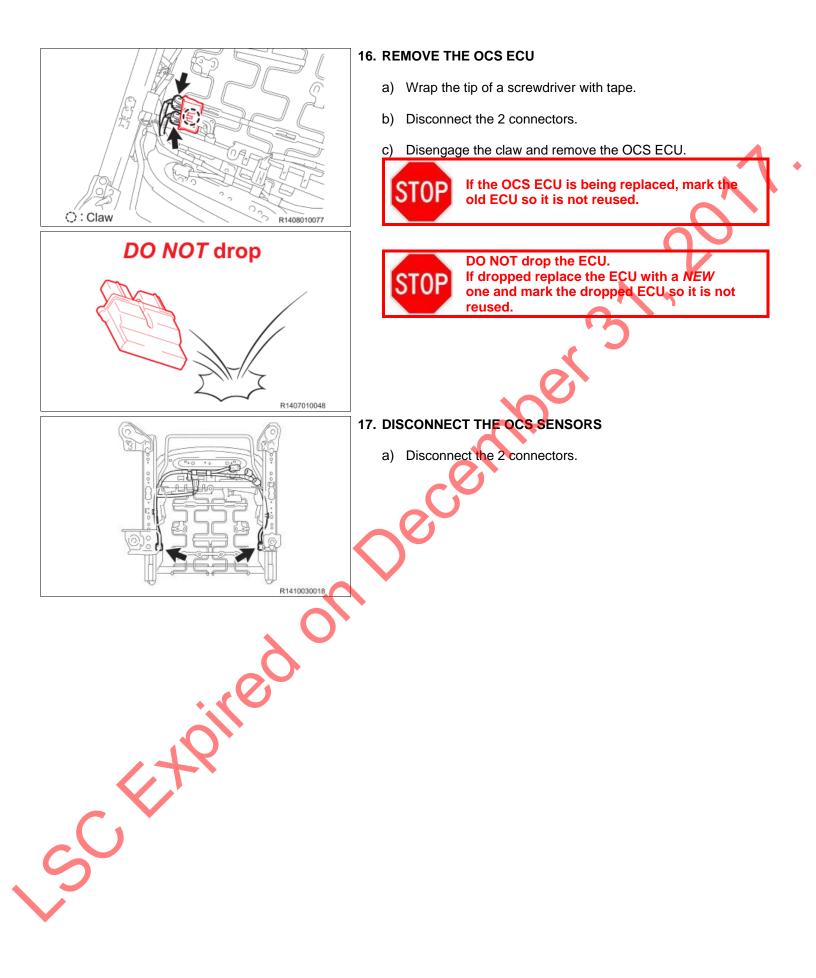
- a) Wrap the tip of the clip removal tool with tape.
- b) Position the clip removal tool as shown, and twist it to disengage the claw.
- c) Disengage the remaining claw by hand.







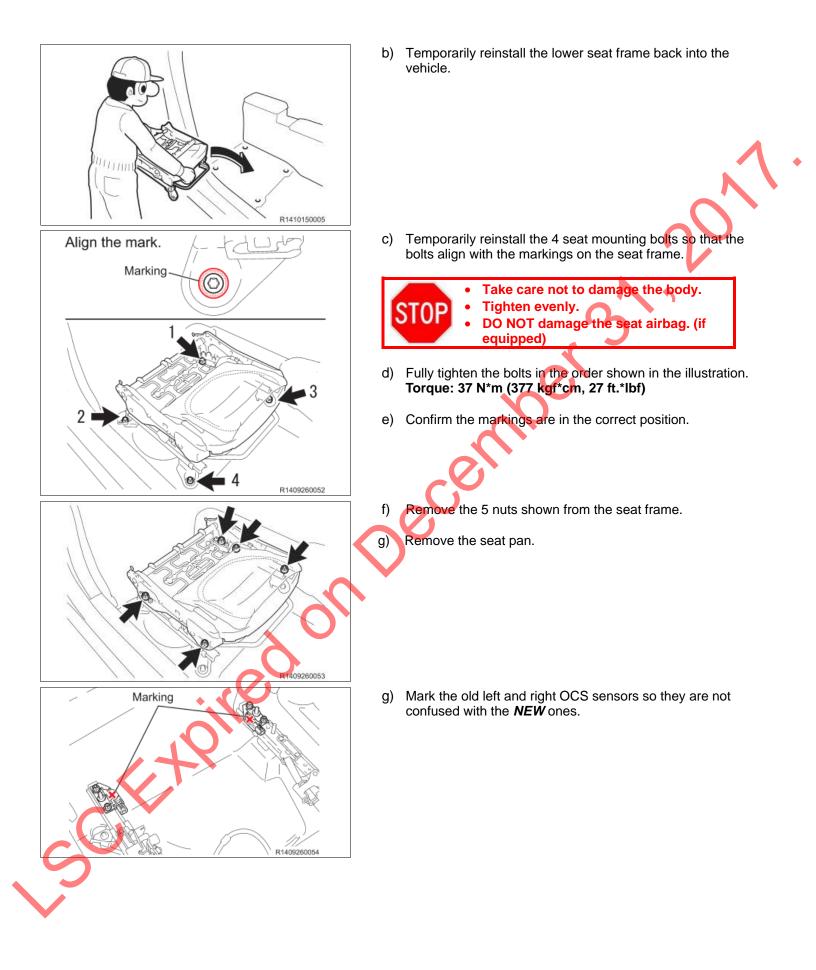


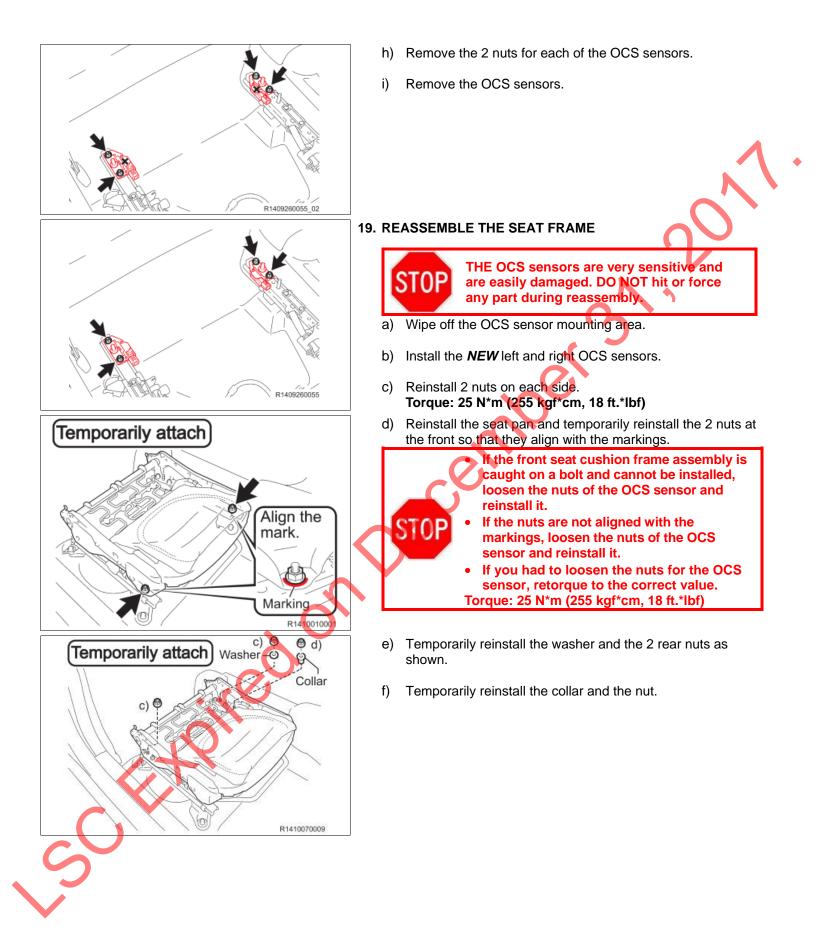


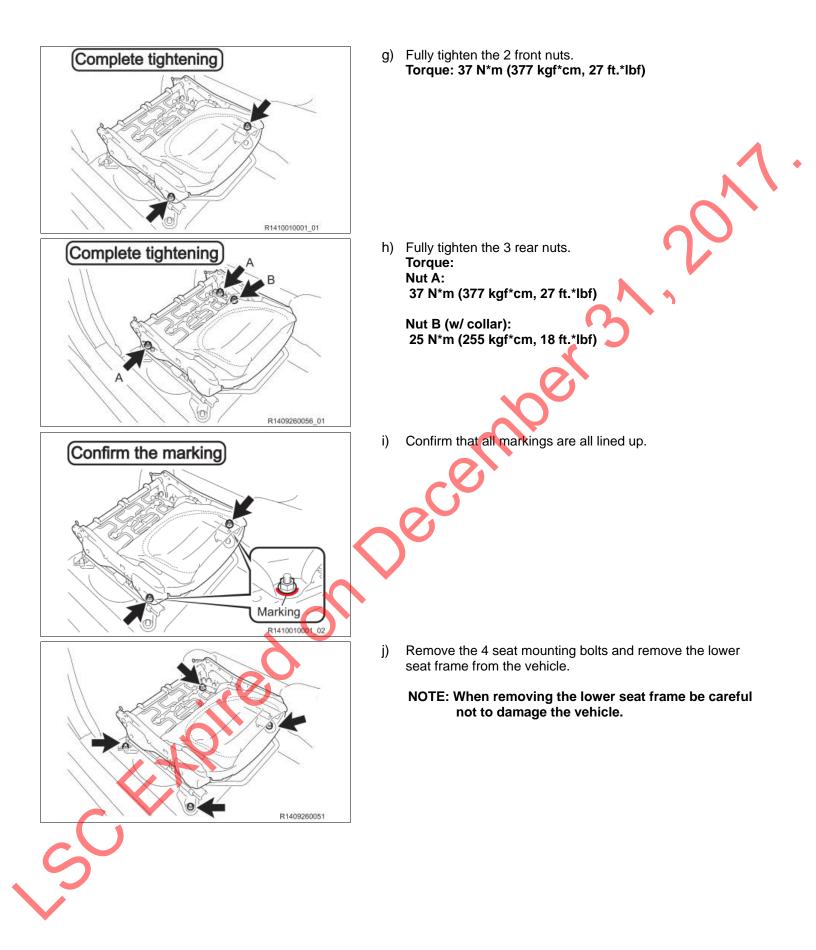
18. DISASSEMBLE THE LOWER SEAT FRAME

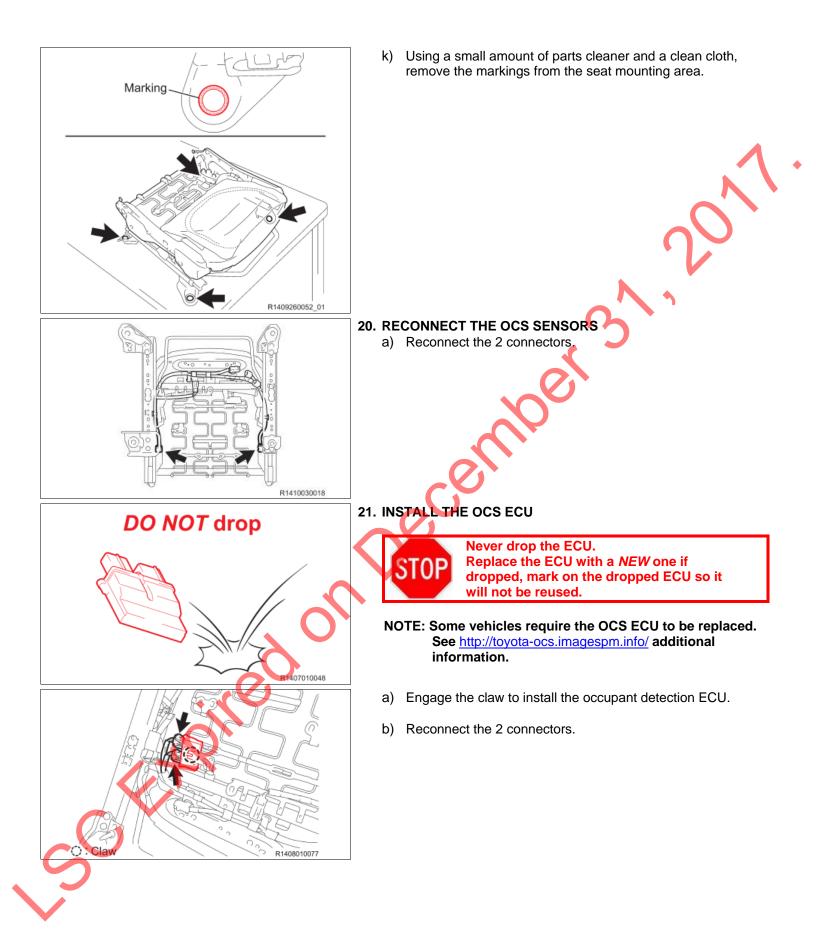


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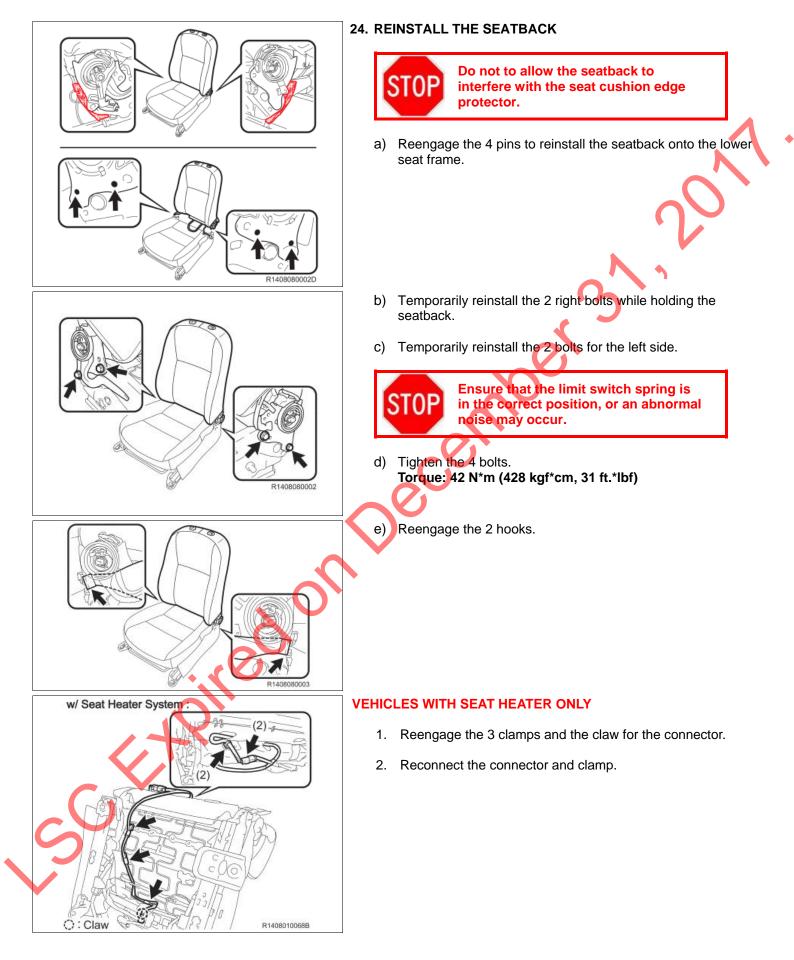


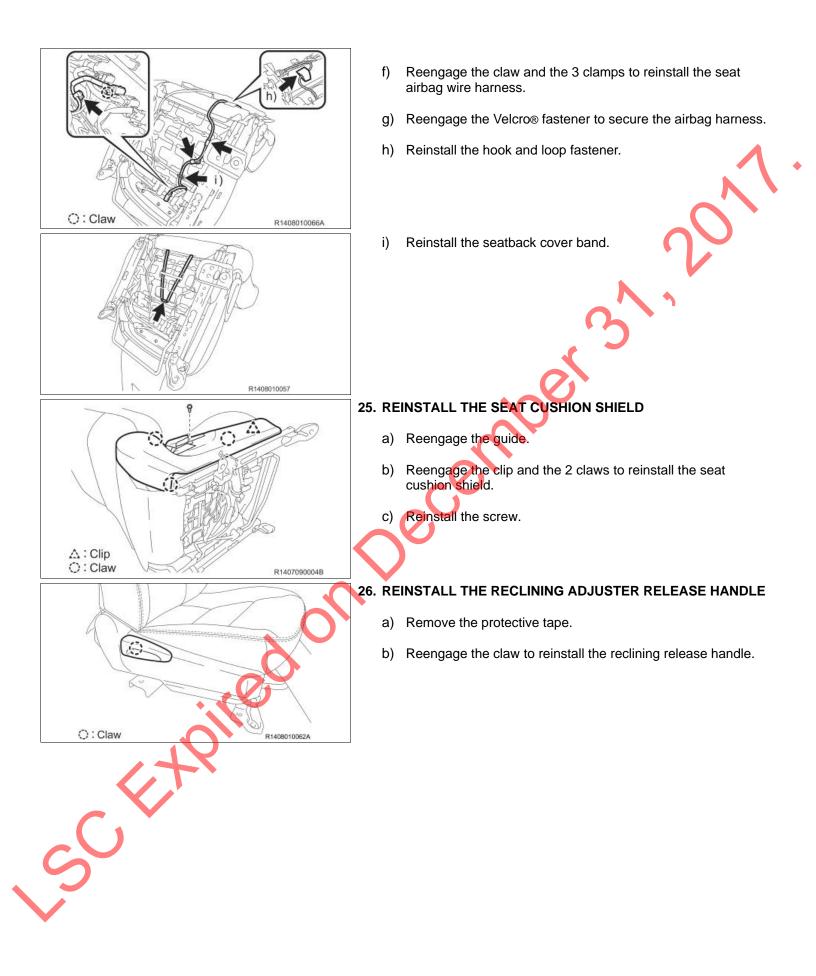


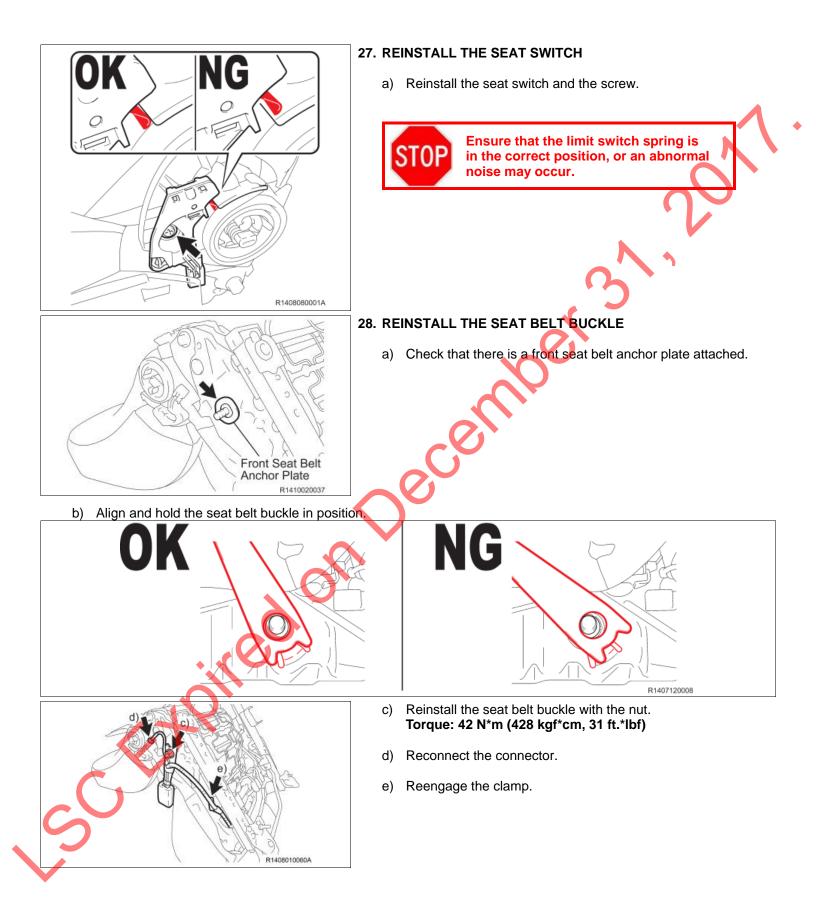


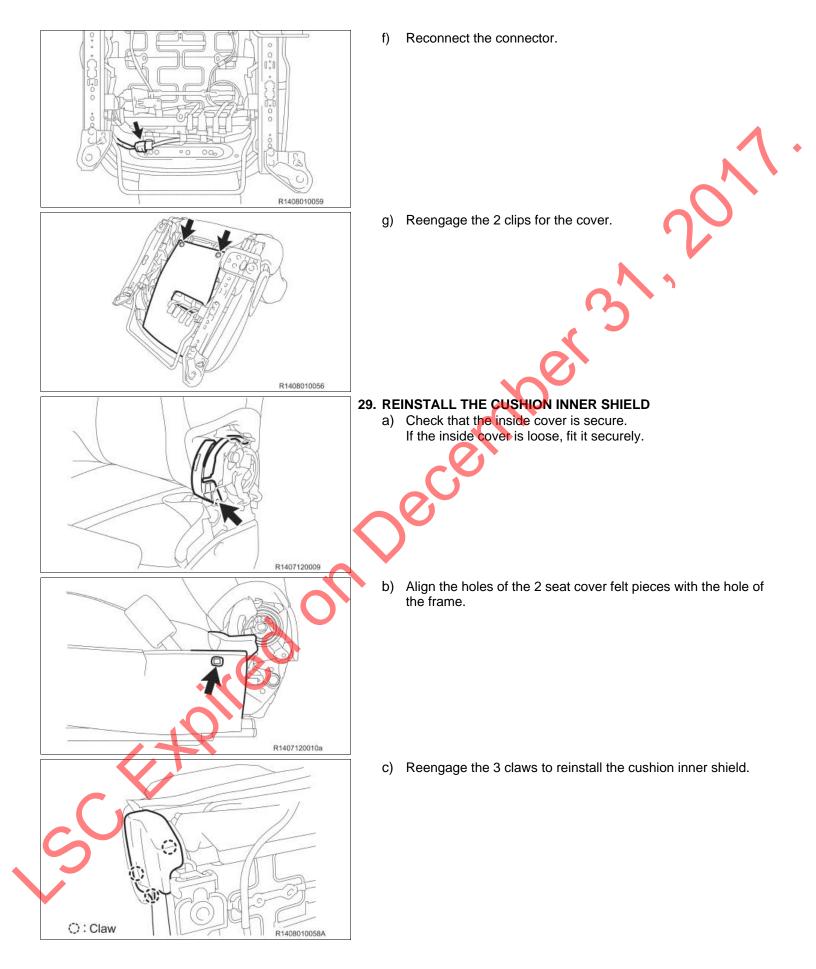












30. REINSTALL THE RIGHT FRONT SEAT

a) Reinstall the right front seat.

- Follow the procedure described below in order to prevent the seat tracks from locking separately.
 DO NOT damage components during R&R front seat.
 - 2 people may be required when installing the front seat into the vehicle.



NOTE: If the bolts are not tightened in the correct sequence, the alignment may be incorrect.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- b) Reinstall seat track covers (if equipped)
- c) Reinstall the headrest.
- d) Reconnect all connectors under the seat.

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31. RECONNECT THE NEGATIVE BATTERY TERMINAL

- a) Reconnect the negative battery cable.
- b) Reinstall the floor cover and reengage the 3 guides.
- c) Reengage the 3 clips.
- d) Reinstall the 2 clips.
- 32. REMOVE ANY PROTECTIVE COVERS
- 33. CHECK THE OPERATION OF THE PASSENGER AIRBAG ON/OFF INDICATOR
- 34. INSPECT THE SEAT OPERATION OF SEAT SLIDING & RECLINING



Always perform inspection.

In case of heavy sliding, abnormal noise, or locking failure of sliding/reclining, compared to before replacement, replace the separate type front seat cushion spring assembly with a *NEW* one.

35. CHECK SEAT HEATER OPERATION (if equipped)

- 36. CHECK FOR DTCs
- 37. PERFORM OCS ECU INITIALIZATION
 - a) Perform zero point calibration and sensitivity check.

Refer to the Technical Information System (TIS), using the applicable vehicle and model year.

<u>2012</u> <u>2013</u>

NOTE: If the standard value cannot be satisfied, change the weight position and perform check again.

38. REINITIALIZE SYSTEMS

a) Restore any memory settings and initialize any system needed (i.e. power windows, moonroof, etc.)

39. RETURN THE SEAT TO THE ORIGINAL POSITION

◄ VERIFY REPAIR QUALITY►

- Proper seat operation
- Proper passenger side airbag light operation

-If you have any questions regarding this OCS sensor replacement, please contact your regional representative.

VIII. APPENDIX

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A. PARTS DISPOSAL

As required by Federal Regulations, please 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.**

B. CAMPAIGN DESIGNATION DECODER

