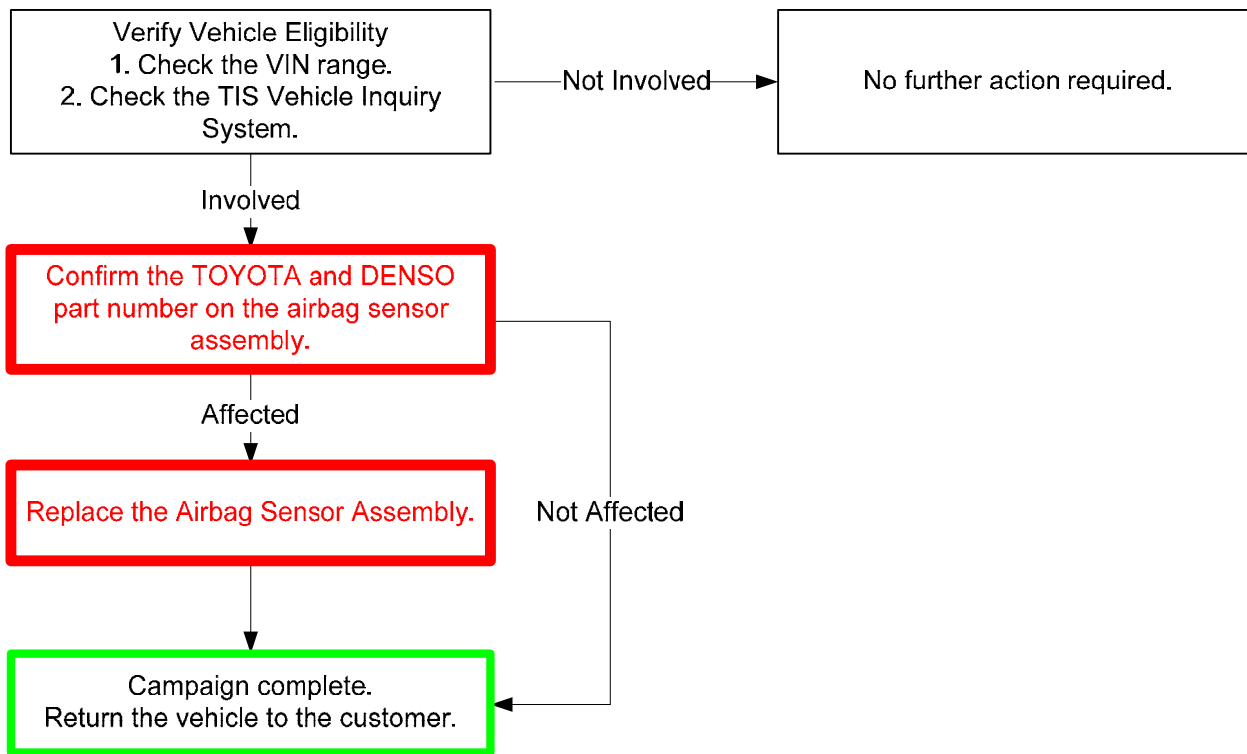


TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL B0E
CURTAIN SHIELD AIRBAG (CSA) SENSOR
CERTAIN 2007 – 2008 MODEL YEAR RAV4

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

A. AFFECTED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
RAV4	JTM	2007	BD31V	5068779 - 5124254
				6030064 - 6054728
			BD32V	5067509 - 5124285
				6030043 - 6054737
			BD33V	5068534 - 5124308
				6029940 - 6054736
			BD34V	5068963 - 5124068
			BD35V	5068706 - 5124278
			BK31V	5018701 - 5040741
				6013465 - 6028074
			BK32V	5018702 - 5040743
				6013012 - 6028066
			BK33V	5018442 - 5040747
				6013469 - 6028069
			BK34V	5018698 - 5040742
			BK35V	5018728 - 5040698
			ZD31V	5044634 - 5077936
				6029151 - 6052970
			ZD32V	5043628 - 5077984
				6028485 - 6052984
			ZD33V	5043738 - 5078025
				6028469 - 6052993
			ZD34V	5044946 - 5077858
			ZD35V	5044702 - 5077997
			ZK31V	5007823 - 5016136
				6004337 - 6010016
			ZK32V	5007837 - 5016123
				6004352 - 6010013
			ZK33V	5007838 - 5016137
				6004338 - 6010017
			ZK34V	5007854 - 5016122
			ZK35V	5007849 - 5016021

Model	WMI	Year	VIN Range	
			VDS	Range
RAV4	JTM	2008	BD31V	5122515 - 5169009
				6054747 - 6072681
			BD32V	5124567 - 5169084
				6054743 - 6072693
			BD33V	5124318 - 5169082
				6054075 - 6072694
			BD34V	5124315 - 5168913
			BD35V	5124310 - 5169031
			BK31V	5040755 - 5054935
				6028076 - 6038778
			BK32V	5039902 - 5054931
				6028075 - 6038777
			BK33V	5040768 - 5054862
				6028079 - 6038779
			BK34V	5040763 - 5054884
			BK35V	5040804 - 5054933
			ZD31V	5078027 - 5094838
				6052994 - 6068710
			ZD32V	5078035 - 5094812
				6052998 - 6068714
			ZD33V	5076662 - 5094894
				6052995 - 6068712
			ZD34V	5078041 - 5094882
			ZD35V	5078033 - 5094899
			ZK31V	5015779 - 5019496
				6010018 - 6013027
			ZK32V	5016141 - 5019494
				6010023 - 6013022
			ZK33V	5016138 - 5019482
				6010021 - 6013026
			ZK34V	5016157 - 5019473
			ZK35V	5016148 - 5019472

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.

III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity
04001-51142	Airbag Sensor Assy Kit*	1
*The kit above includes the following part		
89170-42252	Airbag Sensor Assy	1

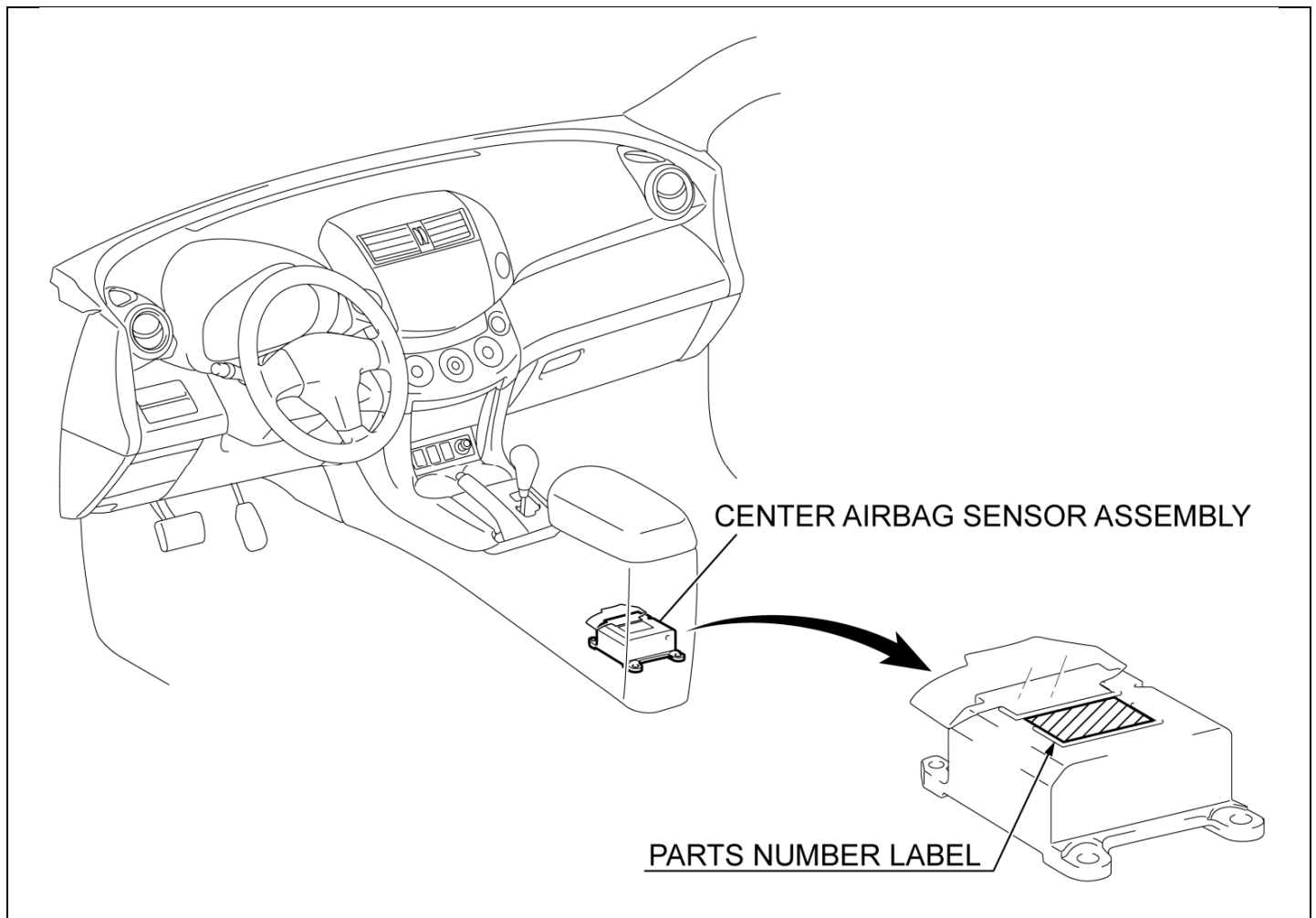
Not all vehicles will require airbag sensor assembly replacement, follow these instructions to determine if replacement is necessary. Inappropriate parts replacement will result in the claim being debited.

B. TOOLS & EQUIPMENT

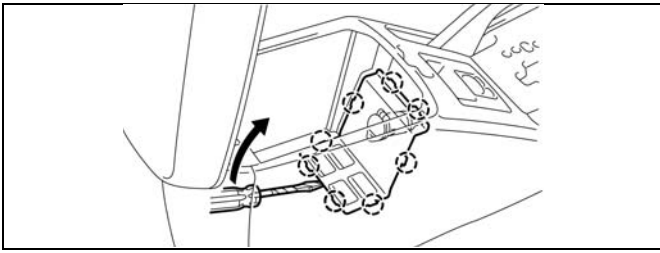
- Standard hand tools
- Torque wrench
- Techstream

IV. BACKGROUND

In the curtain shield airbag (CSA) system of the subject vehicle, there are two sensors in the airbag sensor assembly which are designed to detect vehicle roll angle. If one of these sensors malfunctions, the airbag warning light (Malfunction indicator Light: MIL) will illuminate and the roll detection system will be suspended; however, the airbag (CSA) remains available in the event of a side crash. If both sensors fail nearly simultaneously after initial airbag system check, the CSA and the seat belt pretensioner could be inadvertently activated. Inadvertent activation of the CSA and/or the seat belt pretensioner can cause injury to a vehicle occupant.



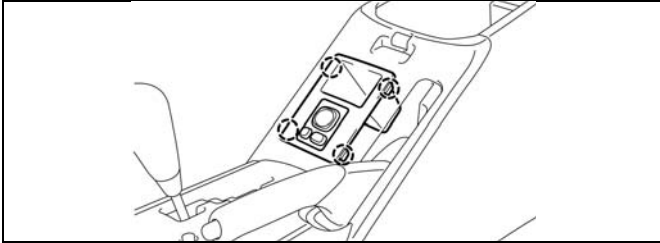
V. AIRBAG SENSOR ASSEMBLY VERIFICATION



1. REMOVE THE CONSOLE BOX PANEL

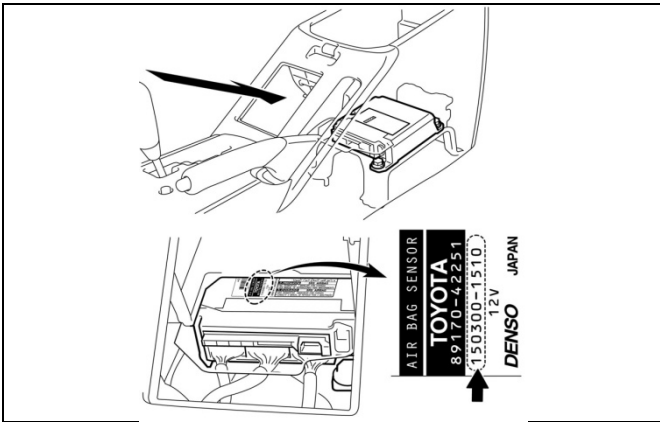
- Remove the console box carpet.
- Remove the console box panel.

NOTE: When using a screwdriver, always tape the end to protect the body panels.

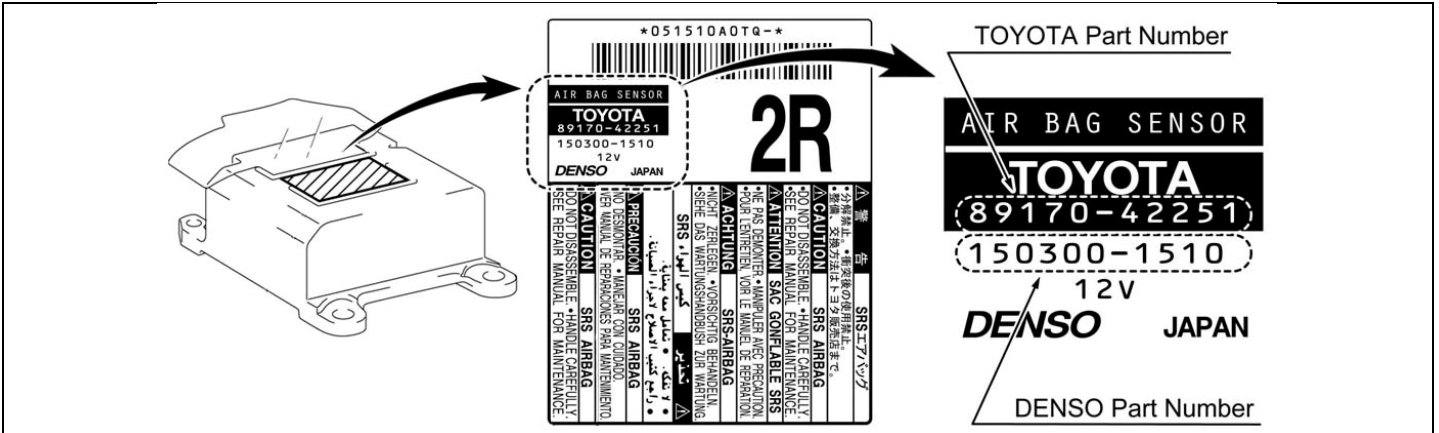


2. REMOVE THE CONSOLE BOX SWITCH PANEL

- Detach the 4 claws, disconnect the connectors and remove the switch panel.



3. CONFIRM THE TOYOTA AND DENSO PART NUMBERS



- Record the **Toyota** part number on the repair order. Refer to the table below for instruction.

TOYOTA PART NUMBER	ACTION REQUIRED
89170-42250	Proceed to section V. AIRBAG SENSOR ASSEMBLY REPLACEMENT
89170-42251	Proceed to step b) Confirm the Denso part number
89170-42252	Not affected, campaign complete
89170-0R020	Not affected, campaign complete
89170-0R021	Not affected, campaign complete

- Record the **Denso** part number on the repair order. Refer to the table below for instruction.

TOYOTA PART NUMBER	DENSO PART NUMBER	ACTION REQUIRED
89170-42251	150300-1510	Proceed to section VI. AIRBAG SENSOR ASSEMBLY REPLACEMENT
	150300-1511	Not affected, campaign complete

VI. AIRBAG SENSOR ASSEMBLY REPLACEMENT



1. DISCONNECT THE NEGATIVE BATTERY CABLE

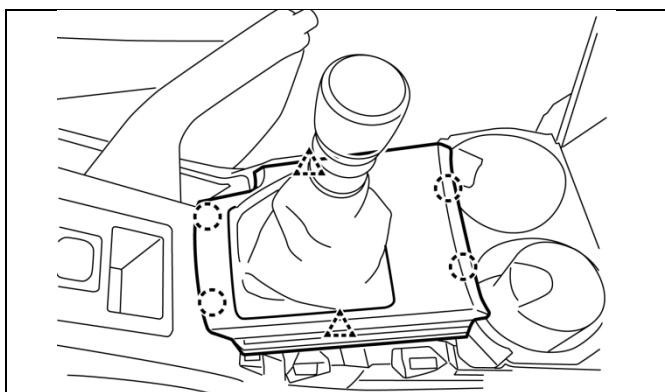


- Wait at least 90 seconds after disconnecting the cable from the negative battery terminal to prevent airbag and seat belt pretensioner deployment.
- Follow all precautions as outlined on TIS before servicing the SRS system

2. REMOVE No. 1 & No. 2 CONSOLE UPPER PANEL GARNISHES

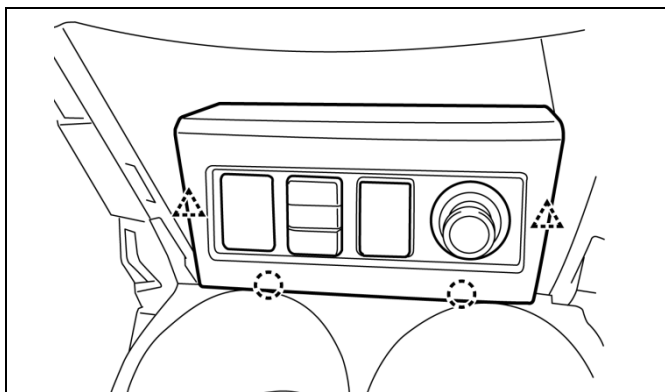
- a) Remove the right and left panel garnishes.

NOTE: When using a screwdriver, always tape the end to protect the body panels.



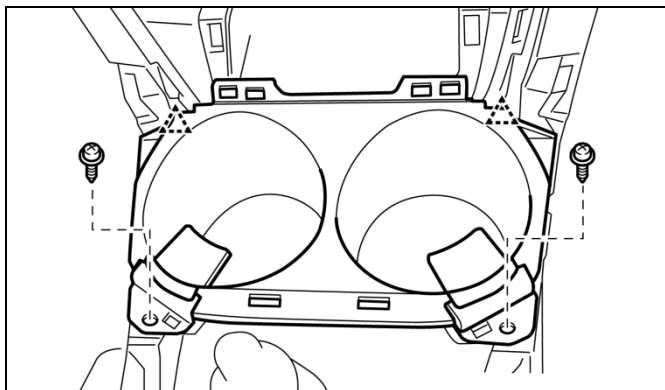
3. REMOVE THE UPPER CONSOLE PANEL SUB-ASSEMBLY

- a) Remove the shift lever knob.
b) Detach the 2 clips, and 4 claws, and disconnect the connector and remove the panel.



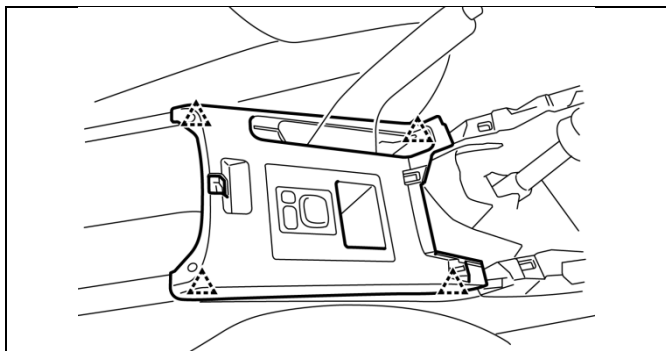
4. REMOVE THE SWITCH BASE

- a) Detach the 2 clips, and 2 claws, and disconnect the connectors and remove the switch base



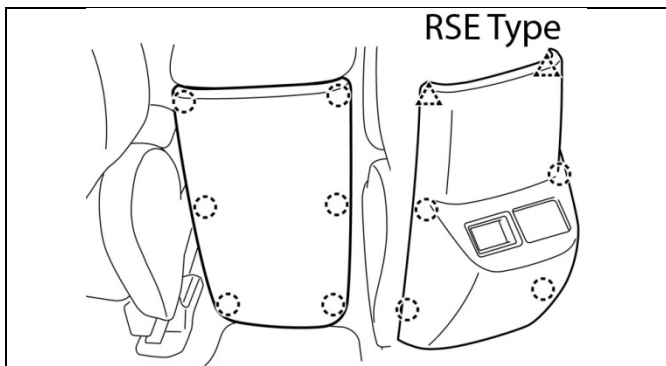
5. REMOVE THE CONSOLE CUP HOLDER BOX

- a) Remove the 2 screws, detach the 2 clips and remove the cup holder.



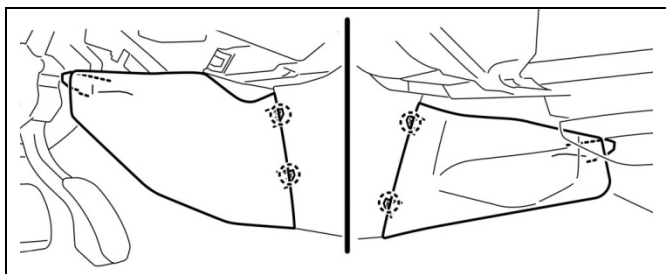
6. REMOVE THE UPPER REAR CONSOLE PANEL SUB-ASSEMBLY

- a) Detach the 4 clips, disconnect the connector and remove the panel.



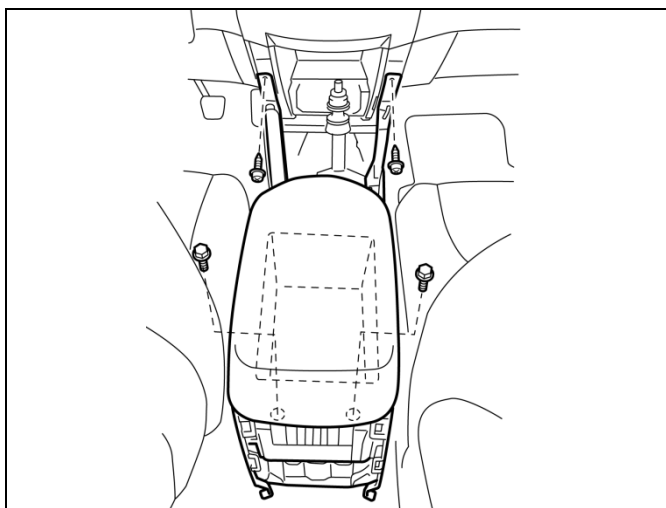
7. REMOVE THE CONSOLE REAR END PANEL

- Non-RSE: Detach the 6 claws and remove the panel.
- RSE: Detach the 4 claws, 2 clips and remove the panel.



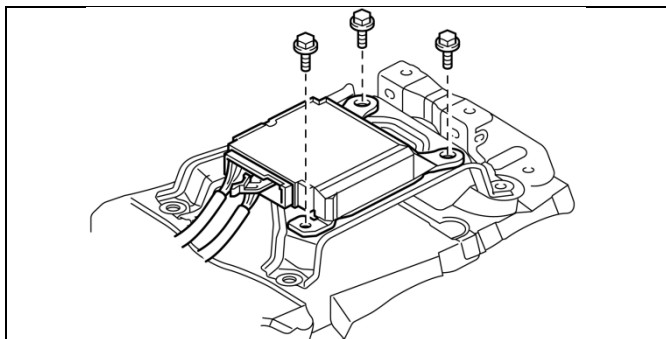
8. REMOVE THE No. 1 INSTRUMENT PANEL BRACKET COVER INNER LH & RH

- a) Detach the 2 claws and remove the RH and LH bracket covers.



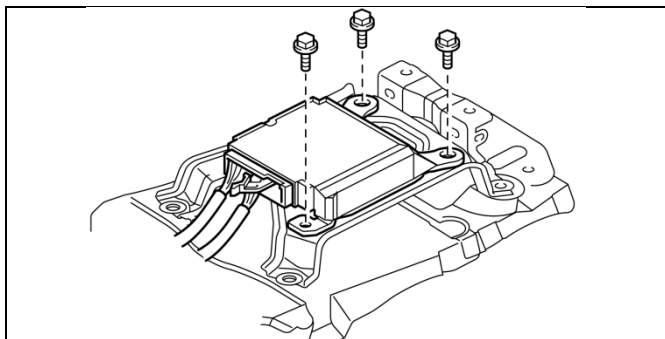
9. REMOVE THE REAR CONSOLE BOX ASSEMBLY

- a) Remove the console box carpet.
- b) Remove the 2 bolts and 2 screws.
- c) Disconnect the connector and remove the console box.



10. REMOVE THE CENTER AIRBAG SENSOR ASSEMBLY

- a) Disconnect the connectors.
- b) Remove the 3 bolts and the sensor assembly.



11. INSTALL THE NEW CENTER AIRBAG SENSOR ASSEMBLY

- a) Install the sensor assembly with the 3 bolts.

Torque: 13ft.·lb.(18N·m)

NOTE:

- Confirm the airbag sensor assembly has not been dropped and there is no sign of damage or defects in the case, bracket, or connector.
- Confirm all SRS wiring is routed correctly.

12. REASSEMBLE THE VEHICLE IN THE REVERSE ORDER OF DISASSEMBLY

Refer to TIS for detailed instructions on reassembly

[Airbag Sensor Assembly Installation](#)

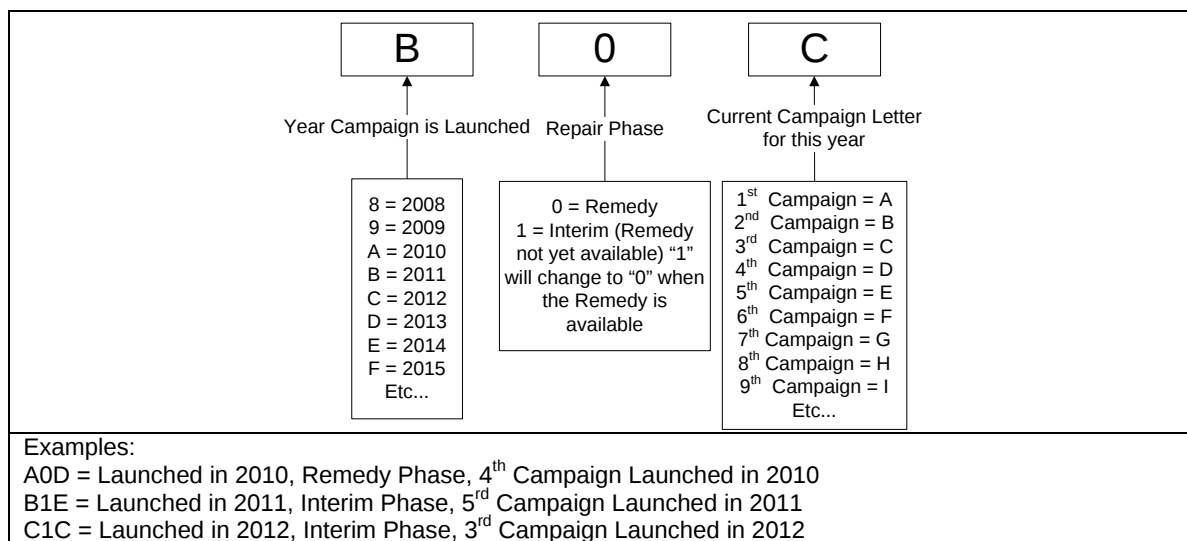
13. CHECK FOR DTCs

◀ VERIFY REPAIR QUALITY ▶

- Confirm the TOYOTA and DENSO part numbers before replacing the airbag sensor assembly
- Read all precautions as outlined on TIS before servicing the SRS system
- If you have any questions regarding this recall, please contact your regional representative

VII. APPENDIX

A. CAMPAIGN DESIGNATION DECODER



B. RECALL PARTS DISPOSAL

As required by Federal Regulations, 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.***