



HYUNDAI

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NEW POSSIBILITIES.

Technical Service Bulletin

GROUP

BODY ELECTRICAL

NUMBER

17-BE-002

DATE

MARCH 2017

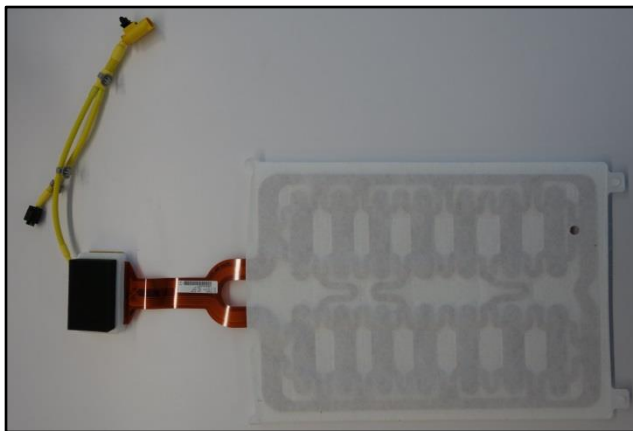
MODEL(S)

Accent (MC)

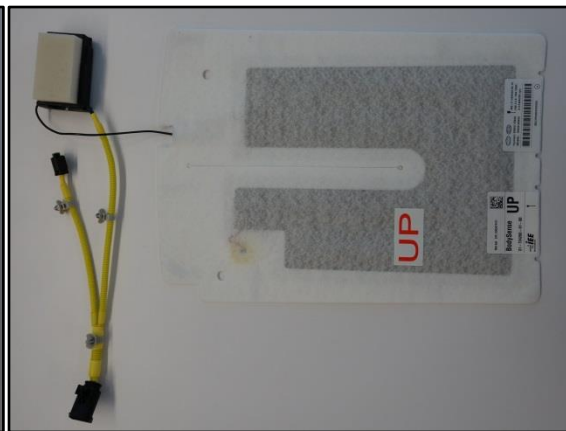
SUBJECT: 2006-2011 ACCENT (MC) OCCUPANT CLASSIFICATION (OCS) SENSOR MAT WARRANTY EXTENSION (TXX6)

Description: The warranty coverage for the front passenger Occupant Classification System (OCS) sensor mat for 2006-2011MY Accent Vehicles has been extended to 15 years/unlimited mileage, starting from the date of original retail delivery or date of first use.

The sensor mat is intended to detect child seats and small stature occupants who could be harmed by deployment of the passenger front airbag. If the sensor mat is not functioning properly and a crash of sufficient severity occurs, the front passenger airbag will deploy even if the passenger seat is occupied by a child or person of small stature. Additionally, the airbag warning light in the instrument cluster will illuminate and **DTC(s) B1447, and/or B1448** may be stored. If the airbag warning light is illuminated and one or more of the above DTCs are stored, follow the diagnostic procedures outlined in this bulletin and replace the OCS mat using the service procedures in this bulletin if replacement conditions are met.



OCS Mat

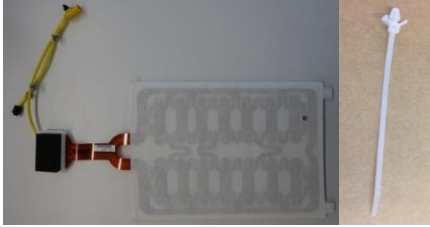
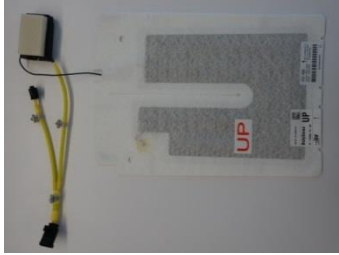



Body Sensor Mat

Applicable Vehicles: 2006-2011MY Accent (MC) vehicles

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Part Information:

Part Name	Production Date	Part Number	Qty.	Remarks
OCS Mat Replacement Kit	10/13/2005 ~ 03/15/2010*		1	<p>*Please note that the following 5 VINs from 3/15/2010 production were manufactured with the Body Sensor Mat: KMHCN4AC5AU508131, KMHCN4AC5AU508128, KMHCM3AC9AU179494, KMHCM3AC4AU179872, KMHCM3AC0AU179870 The vehicles therefore need the Body Sensor Mat Assembly instead of the replacement of the OCS Mat Replacement Kit.</p>
		88907-1E500-FFF		
Body Sensor Mat Assembly	03/16/2010 ~ 02/11/2011		1	
		88950-1E600-FFF		
Staple Clip (Hog Ring)	03/16/2010 ~ 02/11/2011		1 (6 clips per vehicle)	
		88627-11201 (Pack of 10)		

Tools & Equipment Required:

Tool Name	Image	Remark
Clip/trim Tool		
Diagonal Cutter		
Hog Ring Pliers		P/N: 098804F000 or equivalent

NOTICE

Hyundai is extending the warranty for the OCS mat for the affected vehicles to 15 years / unlimited mileage, starting from the date of original retail delivery or date of first use (provided the condition is not caused by obvious external damage to the OCS mat). Only repairs related to the OCS mat and the necessary diagnoses are covered.

Warranty Extension Information:

Model	Op Code	Operation	Op Time	Casual Part No. (Include Color Identifier)	Nature Code	Casual Code
Accent (MC)	88950F00	OCS Sensor Mat Inspection	0.3 M/H	882001E300 882001E310 882001E320 882001E330	111	ZZ3
	88950F01	OCS Sensor Mat Inspection & Replacement	1.0 M/H	882001E500 882001E520 882001E600 882001E620	111	ZZ3

OCS Sensor Mat Inspection: Page 4

OCS Mat Replacement: Pages 5-9, 15-23

Body Sensor Mat Replacement: Pages 5-14, 23

Service Procedure:

OCS SENSOR MAT INSPECTION

Perform the following based on the types of OCS MAT.

NOTICE

Notice NOT ALL vehicles with DTC B1447 require MAT replacement.**

1. OCS MAT (Pressure Sensor)

For vehicles produced between 10/13/2005~03/15/2010*

With DTC B1447 and/or B1448 → Replace the OCS mat.

*Refer to Page 2 “Remarks” section for additional VIN information



DTC	ACTIVE/HISTORY
B1447 – Occupant Classification System (OCS) – Passenger – ECU Defect.	Replace OCS Mat
B1448 – Occupant Classification System (OCS) – Passenger – Mat Defect.	Replace OCS Mat

2. Body Sensor MAT (Electric Field Sensor)

For vehicles produced between 03/16/2010~02/11/2011

The electrical field sensor is sensitive to interference from certain electronic devices, and to the seat getting wet if liquid is spilled on the seat cushion, potentially causing the airbag warning lamp to illuminate with DTC B1447.



Please inspect for the presence (including in the seatback pocket) of the following:

- Cellular phones
- Laptop Computers
- Inverters
- DVD Players
- Radio Transmitters
- GPS Navigation systems
- Satellite Radio Systems
- Liquid spills on the seat cushion

- A) Verify that the seat cushion including cover and foam is completely dry.
- B) Verify that nearby electronic devices are turned off.

If the above conditions are not present and the DTC codes B1447/B1448 are Active/History. Follow the recommendations in the table below.

DTC	ACTIVE	**HISTORY
B1447 - Occupant Classification System (OCS) - Passenger - ECU Defect.	Replace Body Sensor Mat	Clear DTC
B1448 - Occupant Classification System (OCS) - Passenger - Mat Defect.	Replace Body Sensor Mat	Replace Body Sensor Mat

OCS SENSOR MAT REPLACEMENT

1. Record the customer's radio presets.
2. Place the ignition key in the 'OFF' position.
3. Open the hood and disconnect Negative (-) terminal (A) from the battery.

NOTICE

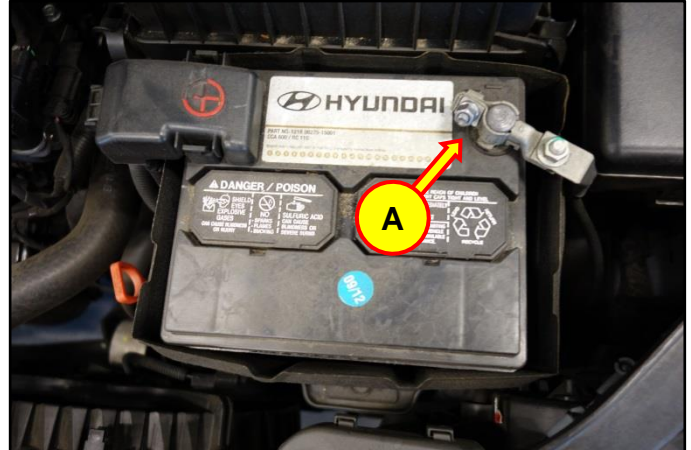
NOTE: Wait at least 3 minutes before proceeding to make sure voltage is bled off.

Negative battery terminal tightening torque:

4.0 ~ 6.0 N.m (0.4 ~ 0.6 kgf.m, 3.0 ~ 4.4lb-ft)

WARNING

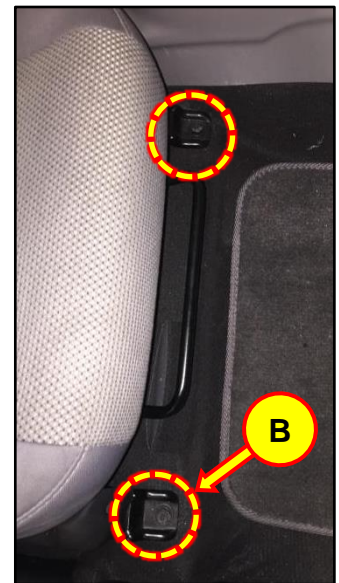
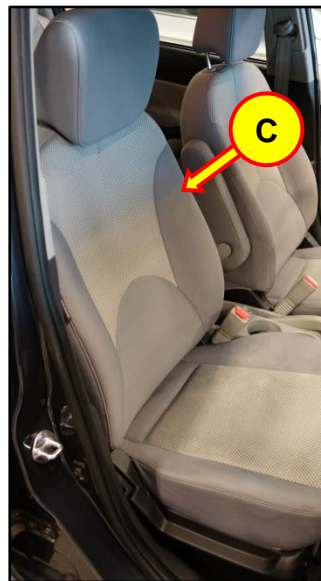
Not removing the Negative (-) terminal from the battery may result in accidental airbag deployment and possible physical injury.



4. Remove 4 bolts (B) on the seat track to uninstall the passenger seat assembly (C).

Tightening Torque:

25.3 ~ 39.8 lb-ft (34.3 ~ 53.9 Nm)



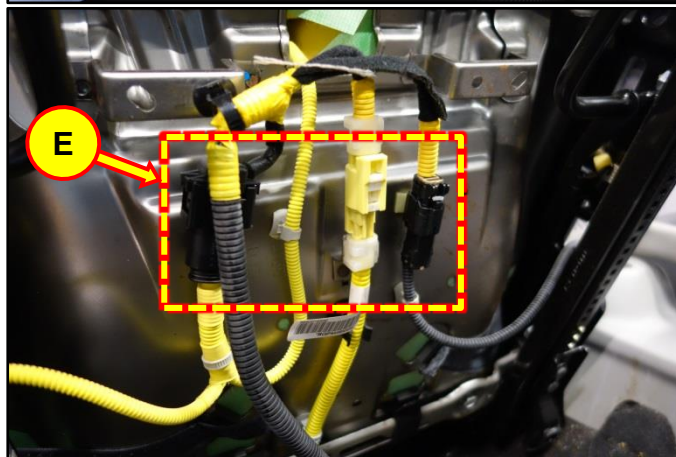
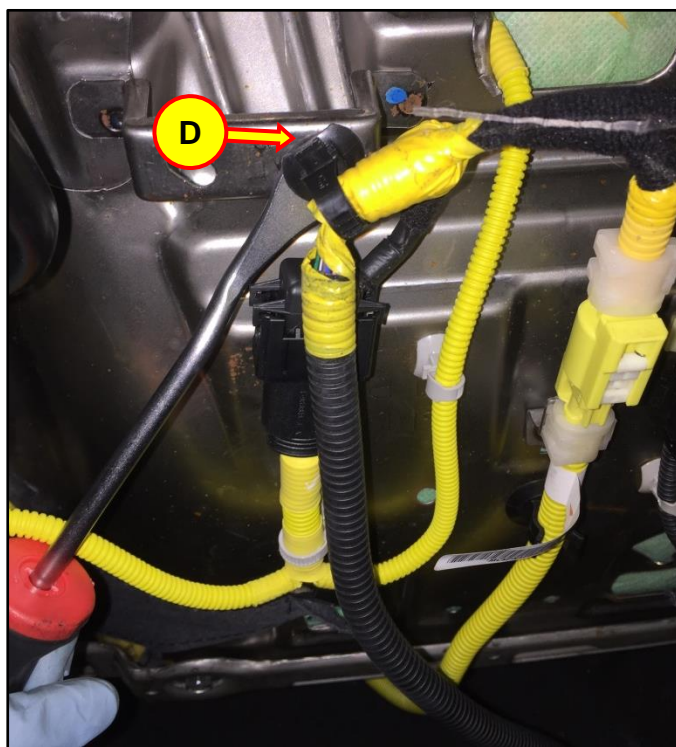
4. Continued



5. Remove harness attachment (D) using a clip tool, disconnect the 3 connectors (E) under the seat and remove the passenger seat assembly.

⚠ CAUTION

Use caution when removing the seat from the vehicle to avoid scratching any interior trim/ or exterior panels.

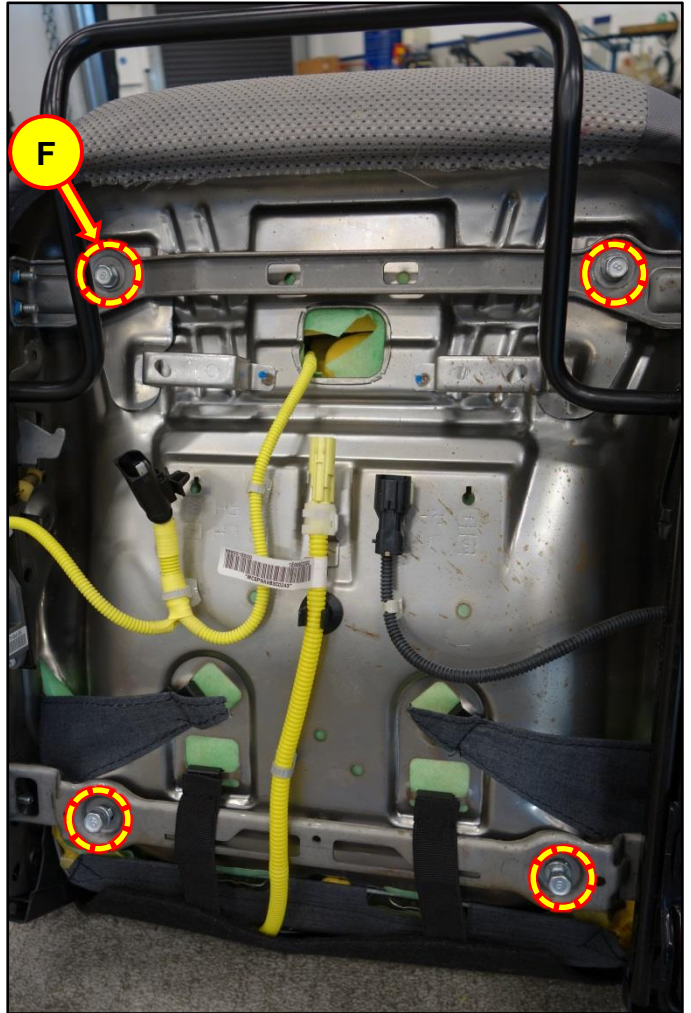


6. Carefully remove the 4 bolts (F) on the seat frame.

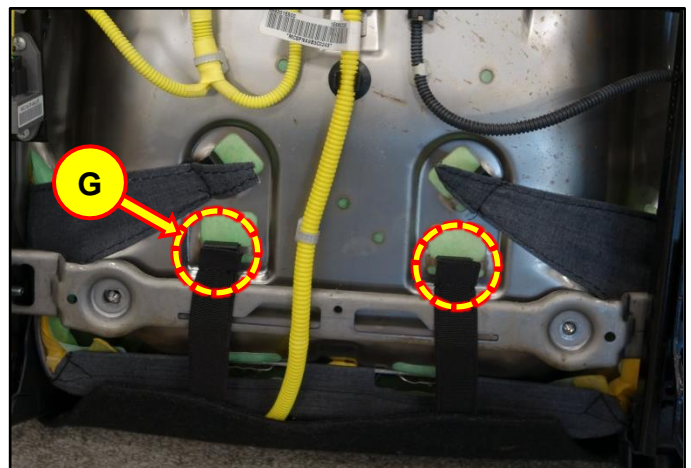
Tightening Torque:
12.2 ~ 18.8 lb-ft (15.6 ~ 25.4 Nm)

⚠ CAUTION

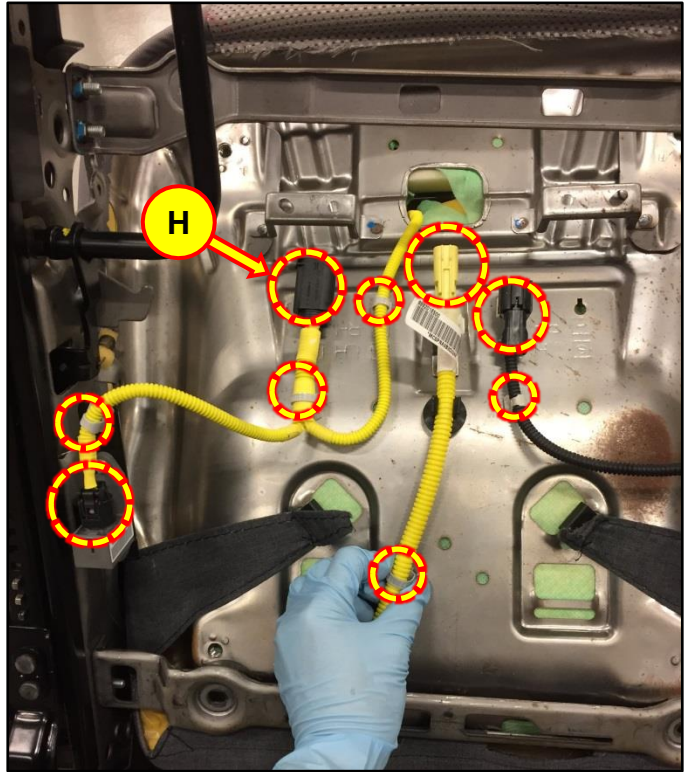
Use caution when removing the bolts to avoid hand injuries from sharp edges.



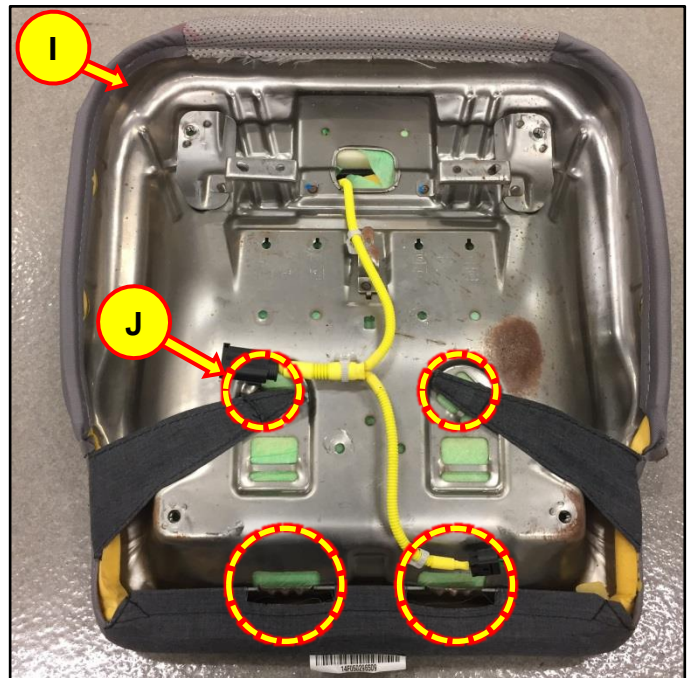
7. Undo the 2 bottom plastic hooks (G).



8. Remove the harness attachments and connectors (H) from the seat bottom and seat frame.



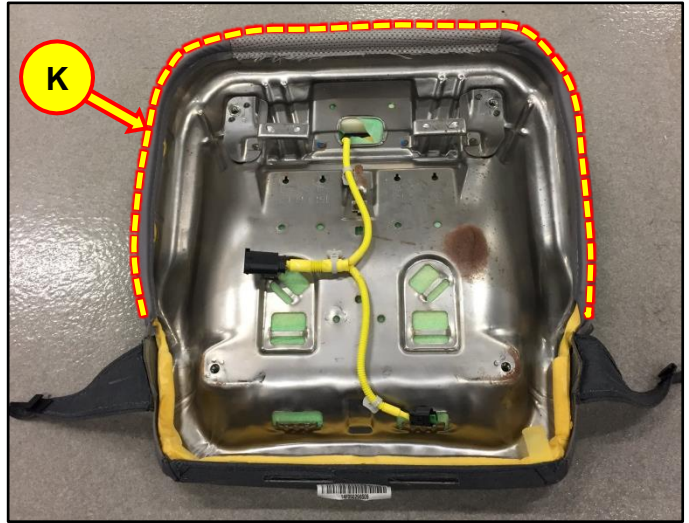
9. Remove the seat cushion (I) and undo the 4 hooks (J).



10. Separate the plastic tabs (K) from the seat cushion.

CAUTION

Use caution when separating the plastic tabs to avoid hand injuries from sharp edges.



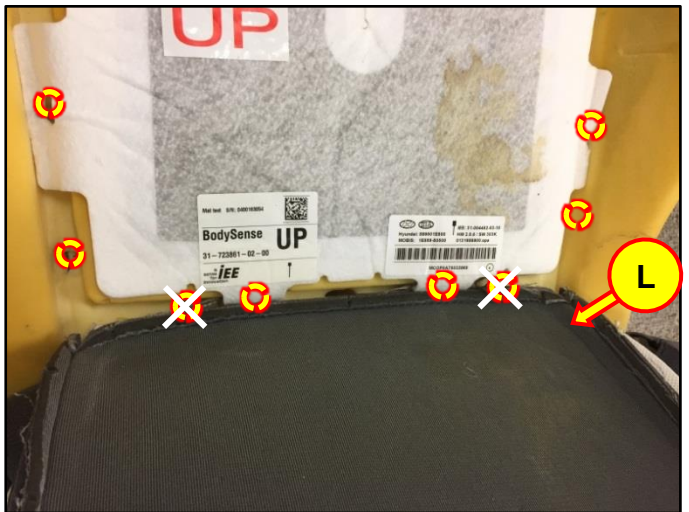
11. **Body Sensor Mat Replacement**

* Proceed to Page 15, Step 19 for **OCS Mat Replacement**.

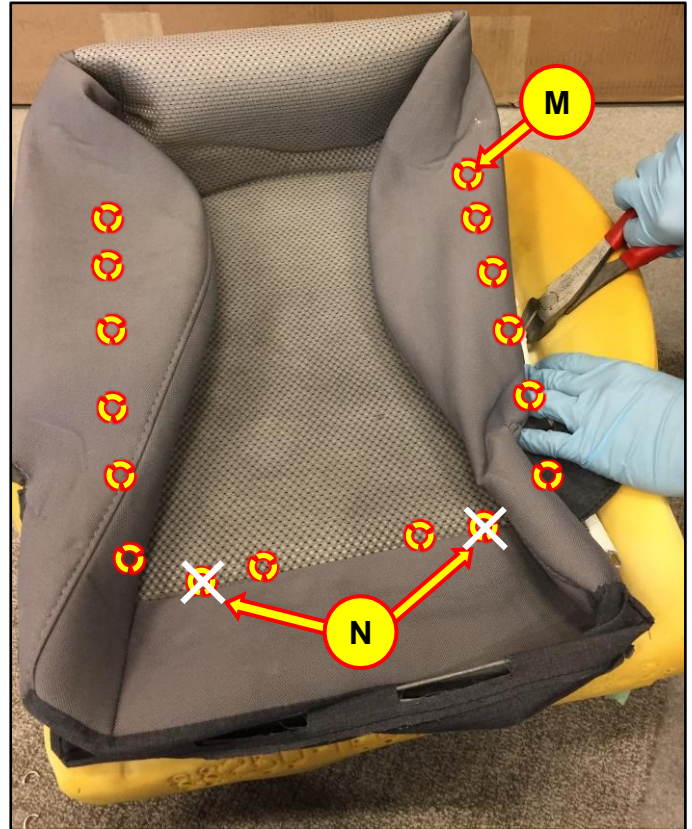
Carefully pull the seat cover (L) back and use a diagonal cutter to remove the 14 hog rings (M) securing the seat cover. Do NOT remove the 2 rear outer hog rings (N).

NOTICE

Replace with new hog rings (P/N: **88627 11201**). To install the new hog rings, use the Hog Ring Clip Pliers (P/N **09880 4F000**) or equivalent.



11. Continued



12. Lift up the seat cover and inspect each of the seat cover attachment points for remaining hog ring debris.

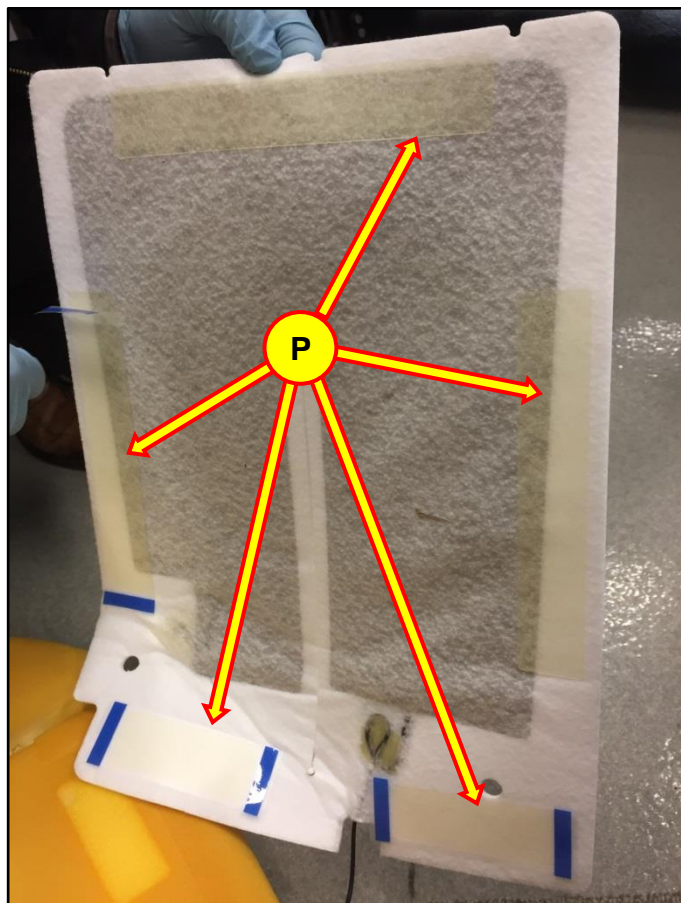
⚠ CAUTION

To prevent damaging the seat cover, make sure to remove all hog ring debris.

13. Remove the original mat (O) and harness from the seat cushion.



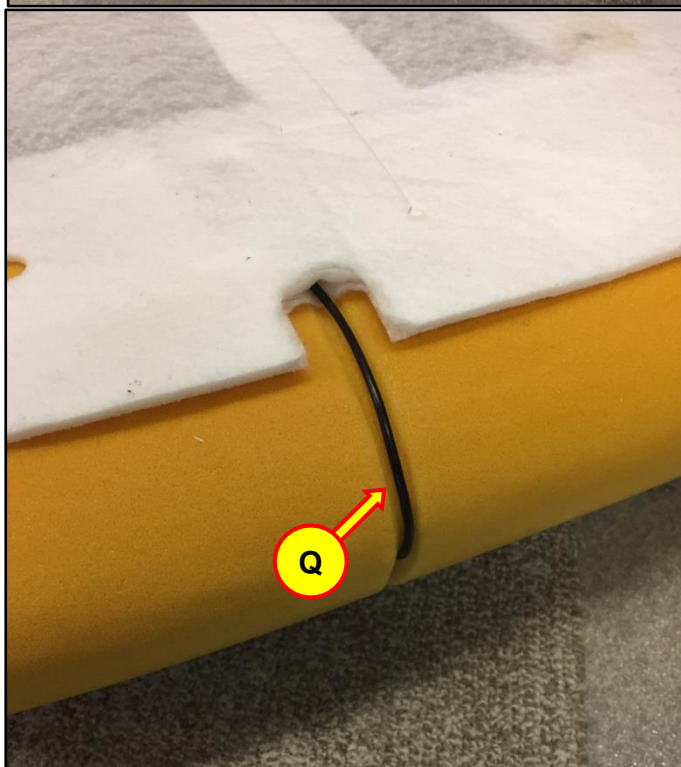
14. Turn the replacement mat over and remove the protective lining (P) from the adhesive strips.



15. Place the replacement mat on top of the seat foam by aligning the mat with the indentation (Q) in the foam and examine the placement of the mat.
Note: Make sure the replacement mat does NOT obstruct access to any of the seat cover attachment points.

NOTICE

The replacement mat **MUST** be in the correct position prior to applying pressure and adhering it to the seat cushion.



16. Press down to ensure the body sensor mat is firmly adhered in place.

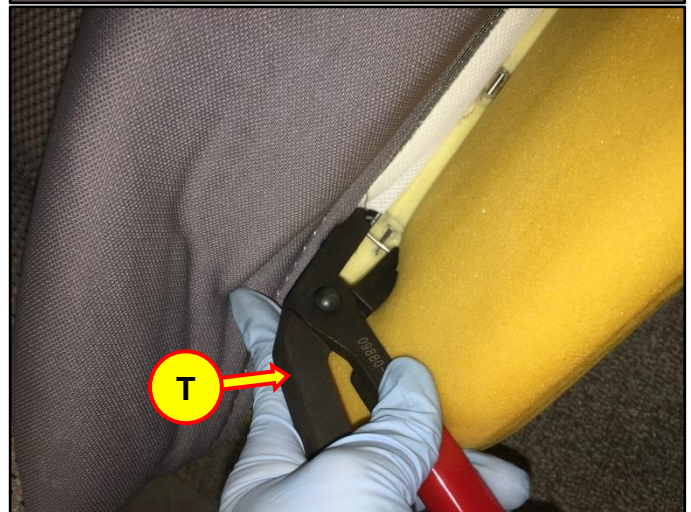
17. Reinstall the harness (R) of the body sensor mat in reverse order of removal.



18. Install 6 new hog rings (S), using the hog ring pliers (T) or equivalent to secure the seat cover.

Note: Make sure to insert the hog ring pliers or equivalent far enough to hook both rods.

***Proceed to Page 23, Step 31 for the remaining procedures of body sensor replacement.**

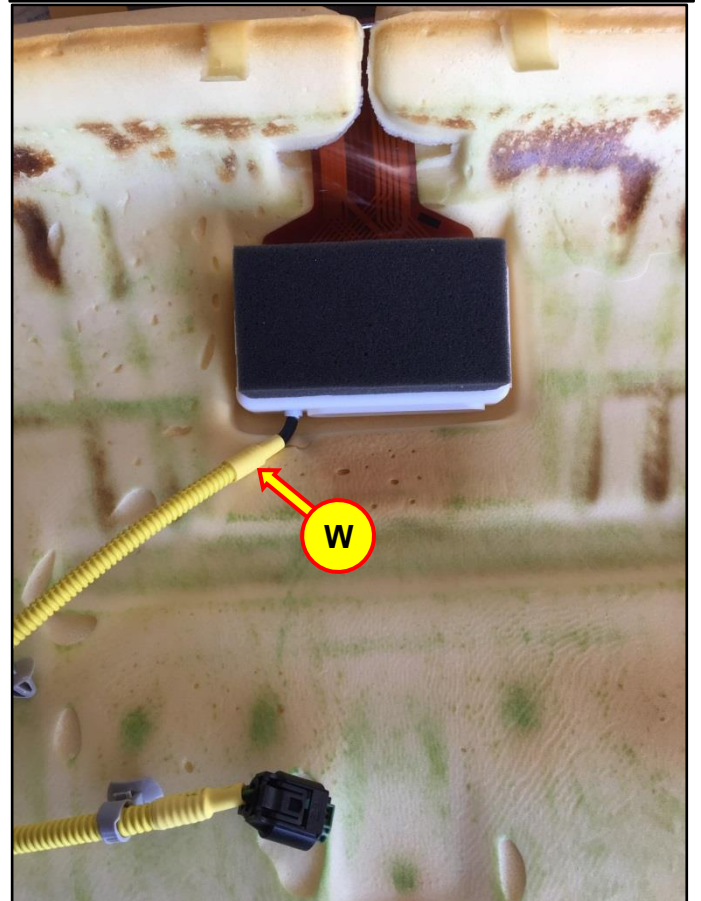
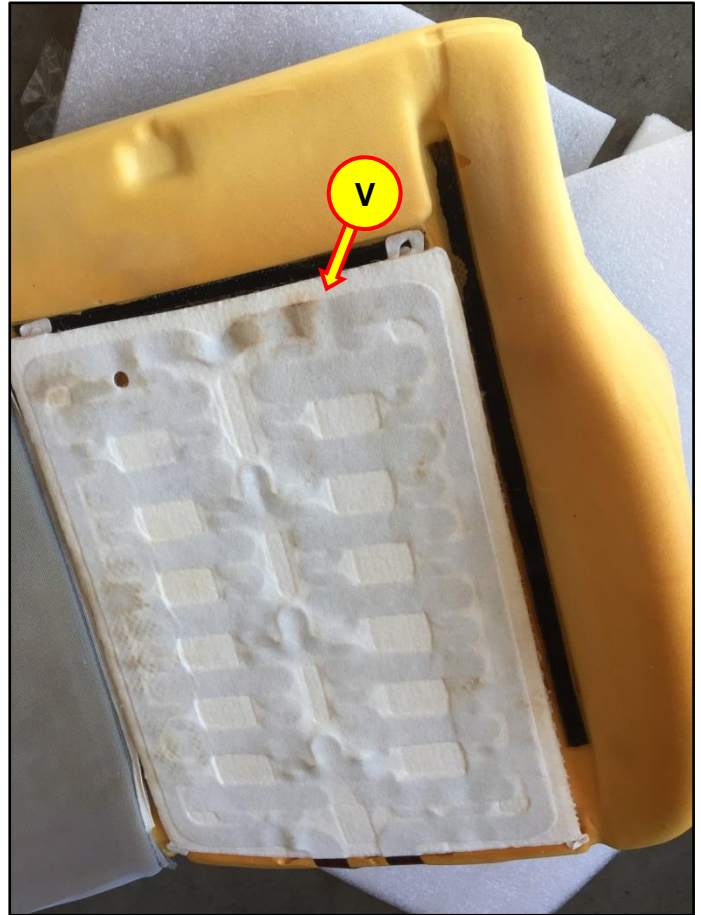


19. **OCS Mat Replacement**

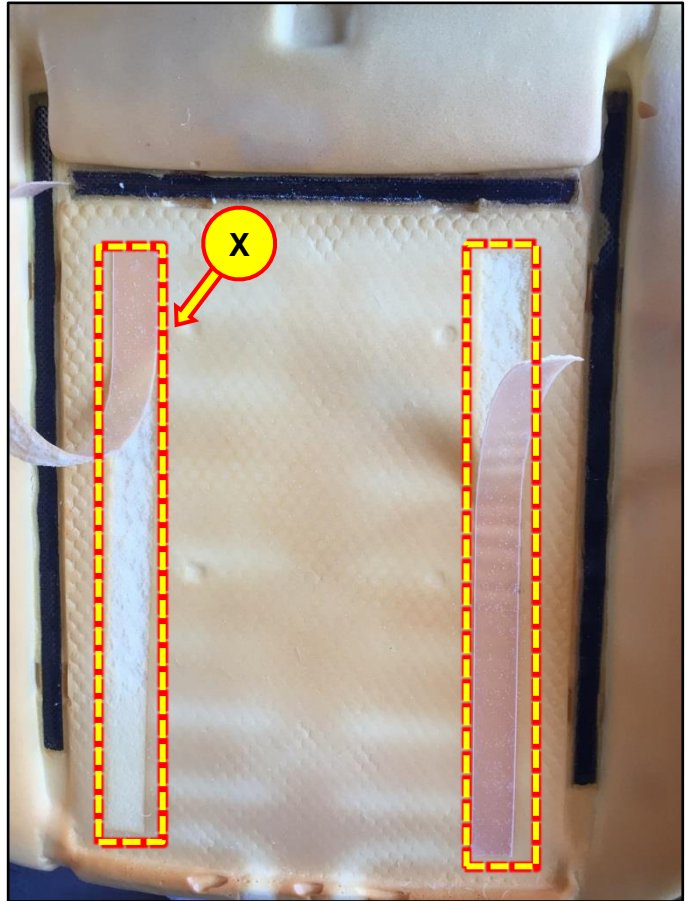
Carefully pull the seat cover (U) back to remove the seat cover.



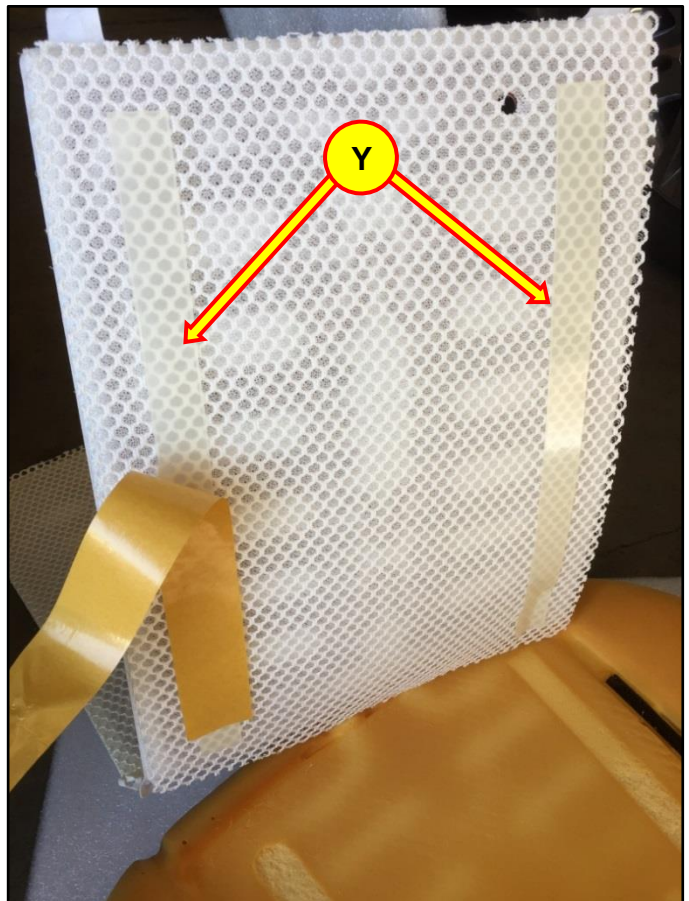
20. Remove the original mat (V) and harness (W) from the seat cushion.



21. Remove 2 original adhesive strips (X) on the seat foam before installing the replacement mat.



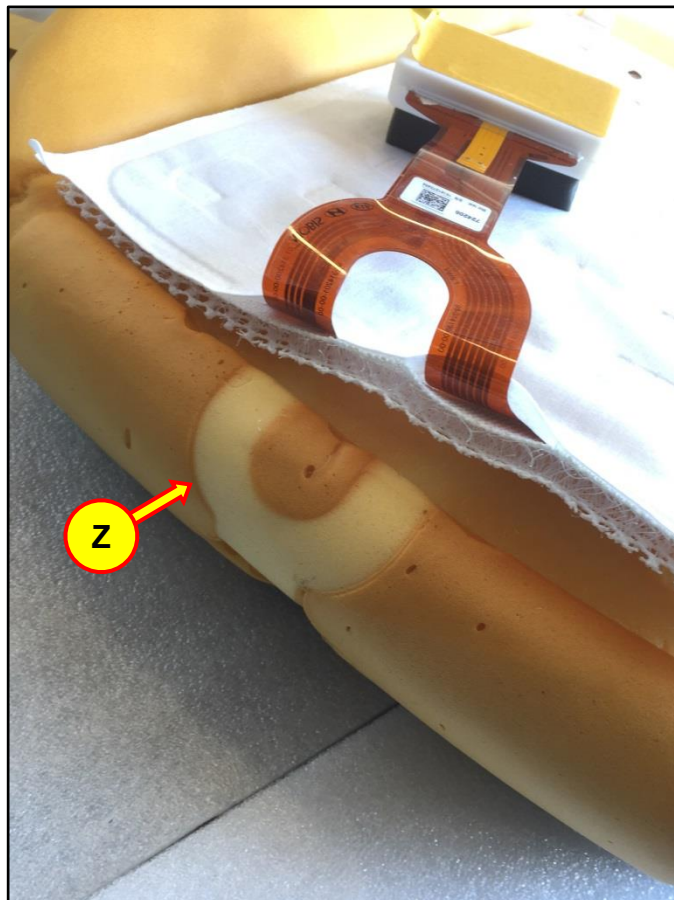
22. Turn the replacement mat over and remove the protective lining (Y) from the adhesive strips.



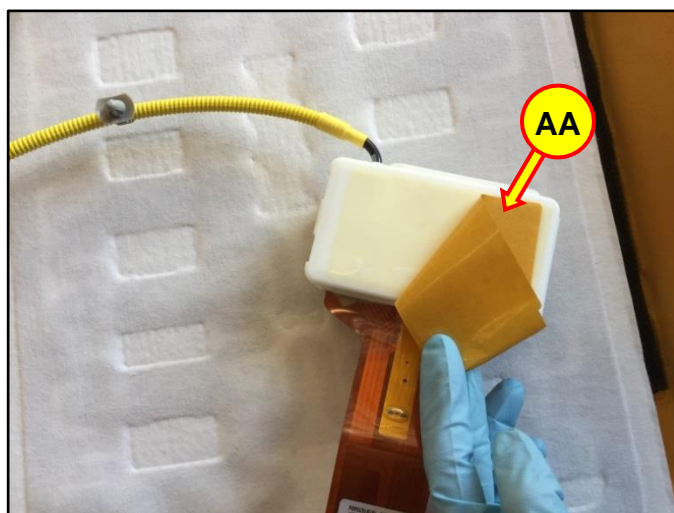
23. Place the replacement mat on top of the seat foam by aligning the mat with the indentation (Z) in the foam and examine the placement of the mat.

NOTICE

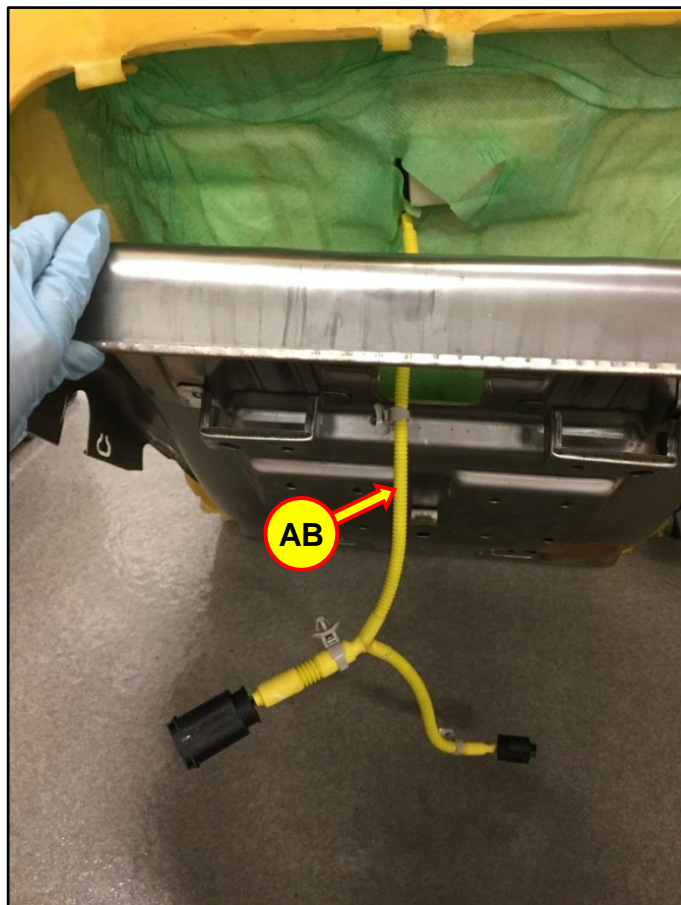
The replacement mat **MUST** be in the correct position prior to applying pressure and adhering it to the seat cushion.



24. Press down to ensure the OCS mat is firmly adhered in place.
25. Remove the protective lining (AA) from adhesive strip on the module and press down to ensure the module is firmly adhered on the bottom of the seat foam. Next reinstall the harness (AB) of the OCS mat in reverse order of removal.



25. Continued

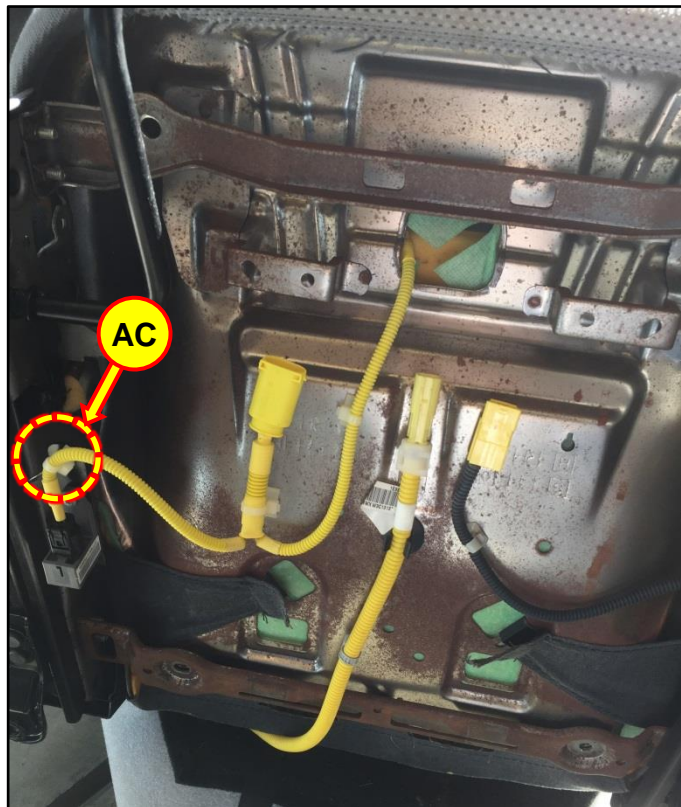


26. Reinstall all removed components in reverse order of removal.

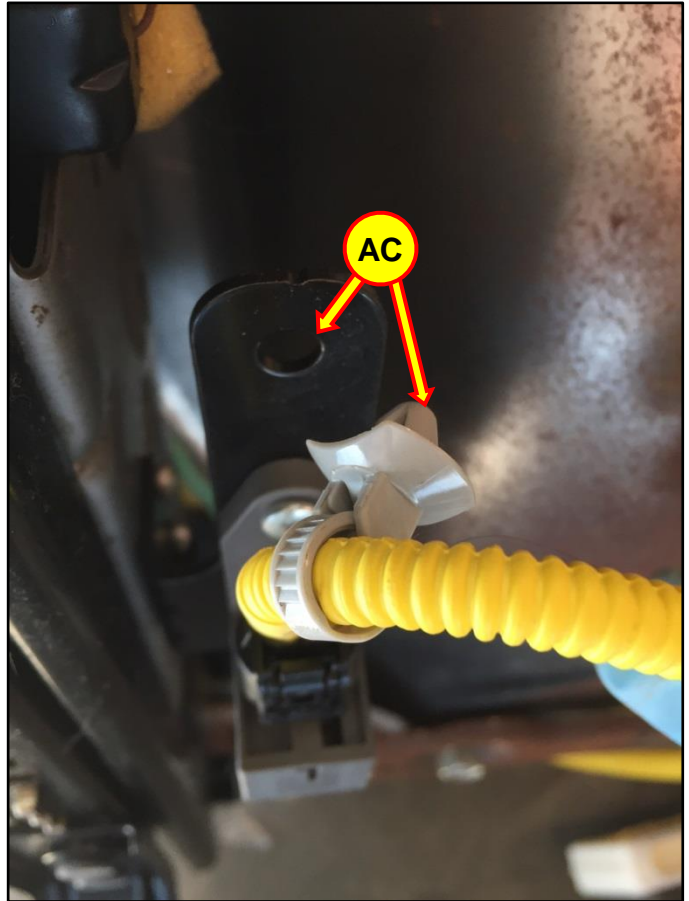
NOTICE

For installation of harness attachments to the seat frame under the seat bottom:
IF the grey clip (AC) from the replacement mat DOES NOT attach to the frame, follow the next Steps, 27~30.

IF the grey clip (AC) DOES attach to the seat frame, proceed to Page 23, Step 31.



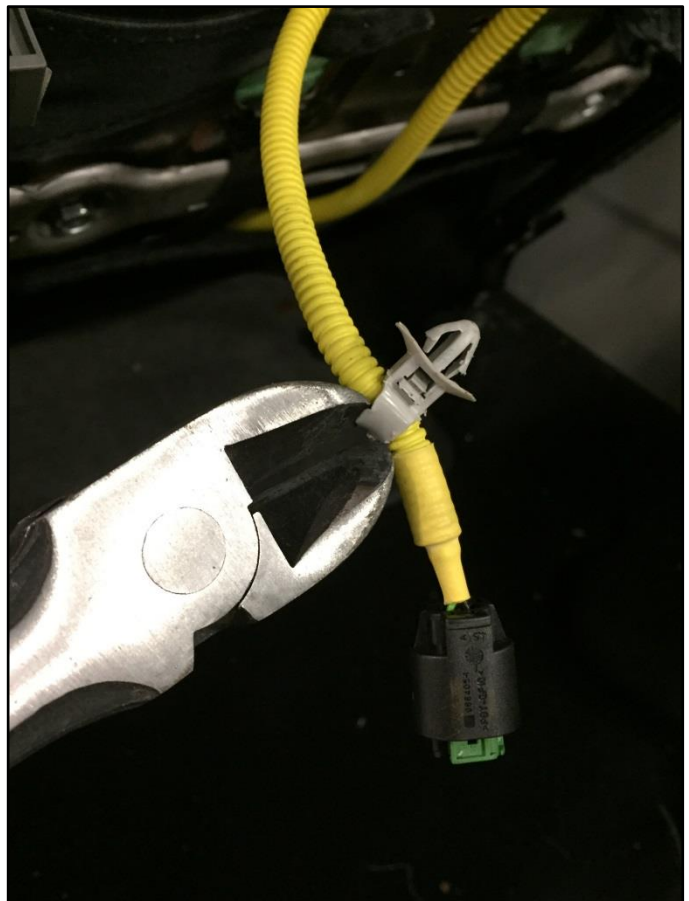
26. Continued



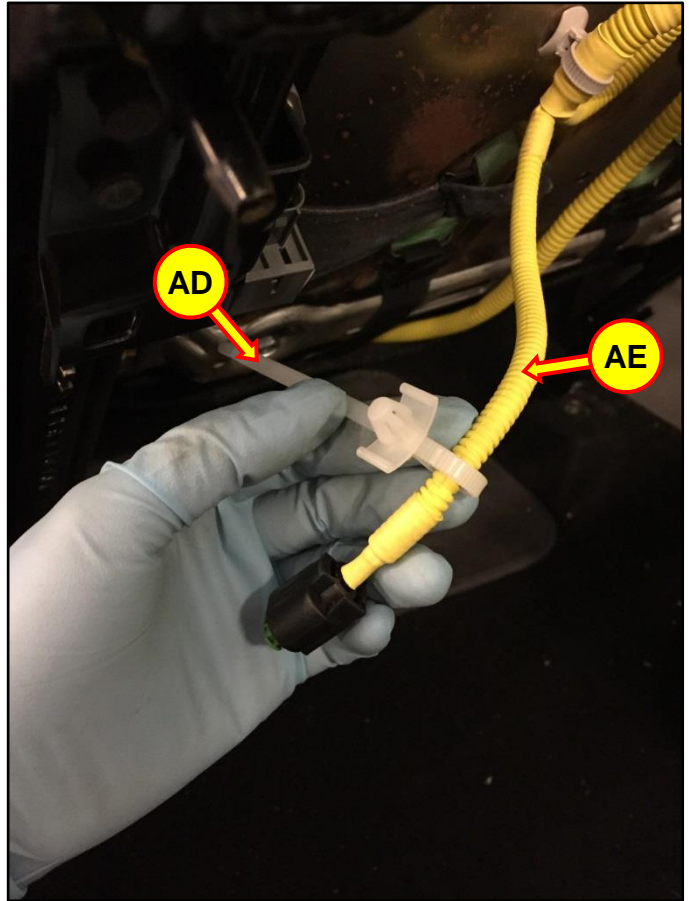
27. Carefully cut off the grey clip using a diagonal cutter.

⚠ CAUTION

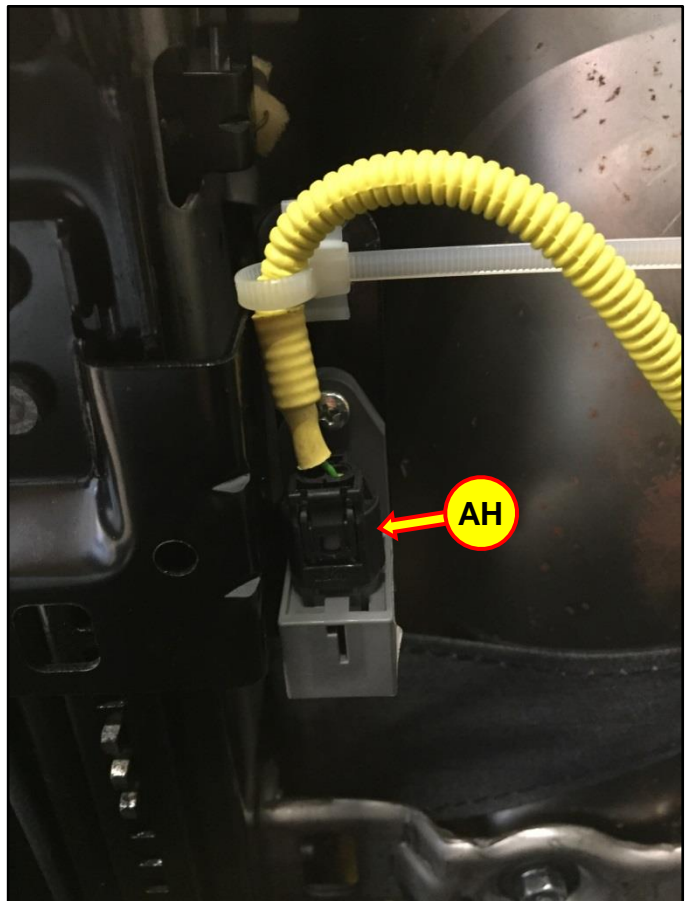
Use caution when cutting the clip not to damage the wire harness.



28. Loosely tie the white clip (AD) provided in the OCS Mat Replacement Kit around the wire harness (AE).

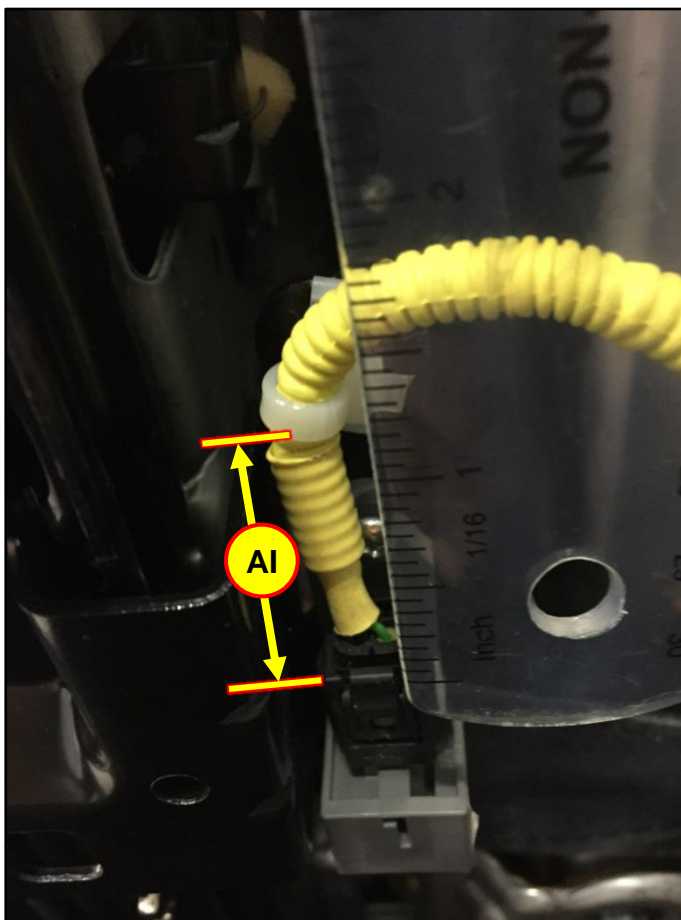
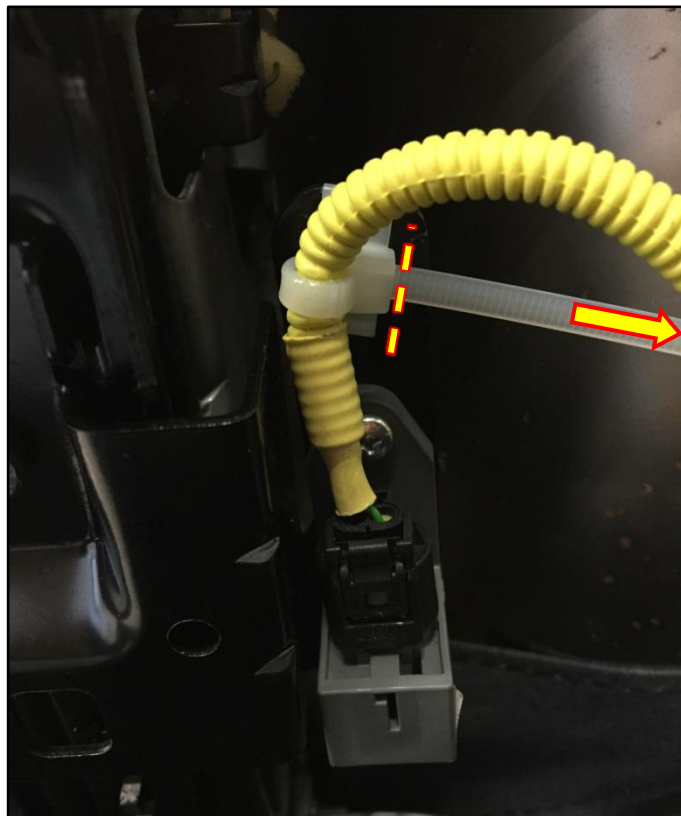


29. Install the connector (AH) and attach the clip to the seat frame.



30. Tighten the tie and cut it close to the clip head using a diagonal cutter.

Note: the distance (AI) between the tie and the connector should be 1.25 inches.



31. Reinstall all removed components in reverse order of removal.
32. Reconnect the Negative (-) terminal to the battery.

Negative battery terminal tightening torque:

4.0 ~ 6.0 N.m (0.4 ~ 0.6 kgf.m, 3.0 ~ 4.4lb-ft)

33. Verify operation of the PASSENGER AIRBAG “OFF” indicator lamp, as described below:

- 1) Indicator lamp ON (AJ):
 - Infant or child restraint system with a 12 month old.
 - Unoccupied
- 2) Indicator lamp OFF (AK):
 - Properly positioned adult or child age 13 and up.



34. Check for any diagnostic trouble codes (DTC) and erase any DTC(s) present. Confirm no DTC(s) return after being erased.