



GROUP <b>BOD</b>	MODEL <b>2008~2011MY Rio (JB)</b>
NUMBER <b>140</b>	DATE <b>June 2016</b>

## TECHNICAL SERVICE BULLETIN

**SUBJECT:** FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS  
AND REPLACEMENT

This bulletin provides information related to the replacement of the front passenger Occupant Classification System (OCS) sensor mat in 2008~2011MY Rio (JB) vehicles. If the sensor mat is not working properly, the airbag warning light on the cluster will illuminate and **DTC(s) B1447, B1448, B1449 and/or B1450** may be stored. If the airbag warning light is illuminated and one or more of the above DTCs are stored, follow the repair procedure outlined in this bulletin to replace the OCS mat.

Standard OCS Mat  
Applied Through 3/2/2010



Body Sense OCS Mat  
Applied After 3/2/2010



File Under: <Body>

Circulate To:  General Manager  Service Manager  Parts Manager  
 Service Advisor(s)  Technician(s)  Body Shop Manager  Fleet Repair

### OCS Mat Sensor Replacement Service Procedure

1. Record the customer's radio presets.



2. Place the ignition key in the 'OFF' position.
3. Disconnect Negative (-) terminal (A) from the battery. **NOTE: make sure voltage is bled off before proceeding.**



#### **WARNING**

**Disconnect battery and make sure voltage is bled off before performing Service Procedure. Otherwise accidental airbag deployment could occur, which may cause personal injury.**

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4. Remove the passenger seat assembly according to the applicable Service Manual / KGIS.

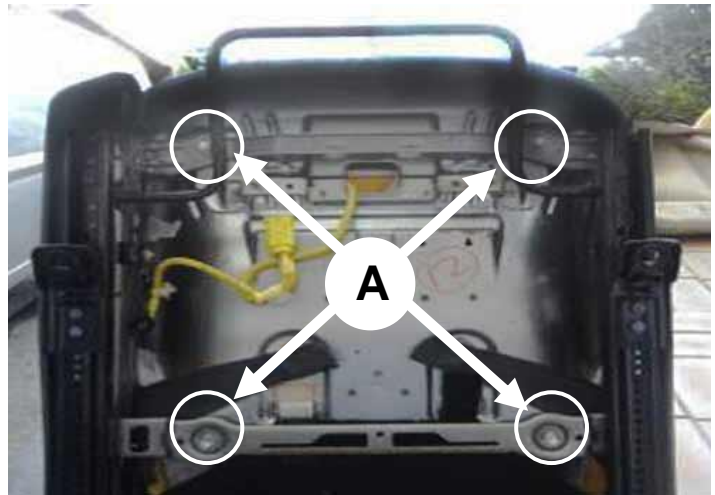
**Tightening Torque Specifications  
(Seat mounting bolt and Nut):  
29 ~ 39 lb-ft (39 ~ 53 Nm)**



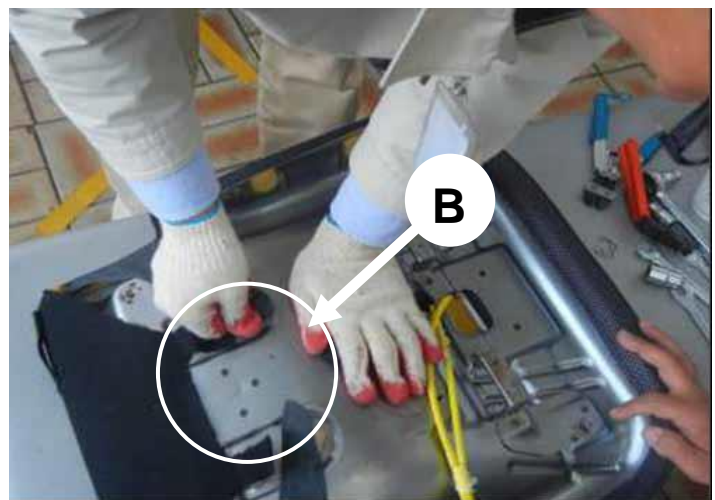
## CAUTION

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

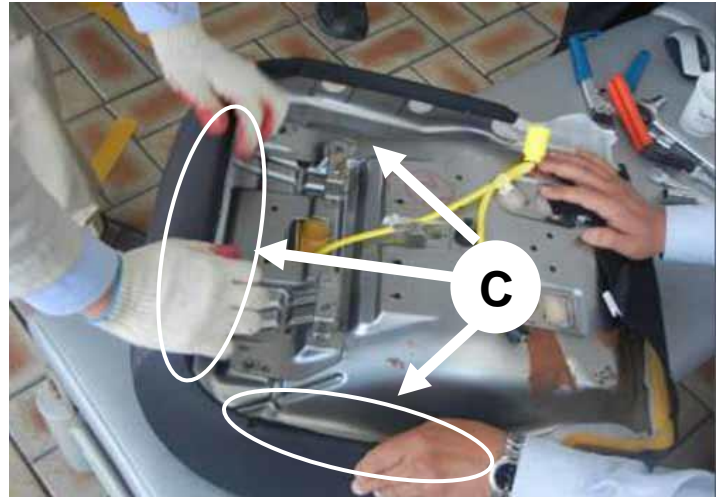
5. Remove the seat cushion assembly from the seat tract frame by removing the four (4) nuts (A).



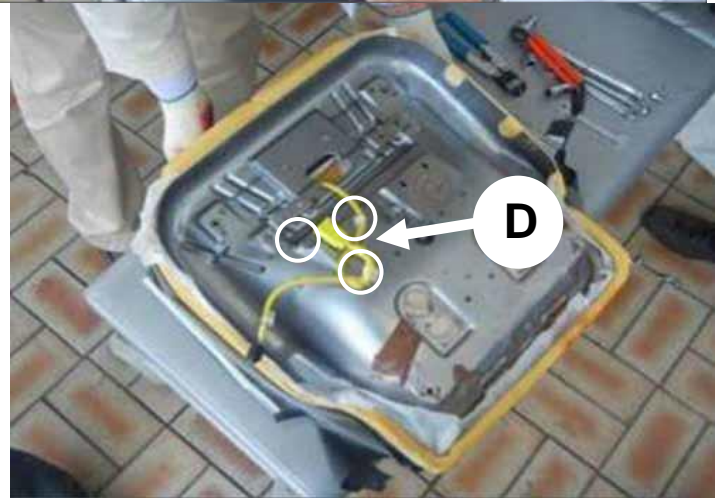
6. Undo the four (4) cushion covering hooks (B) under the seat cushion assembly.



- 7. Remove the seat covering by unhooking the cushion covering hooks (C) marked on the photo (Front, right side, left side).



- 8. Undo the OCS wire harness attaching clips (D) located at the center of the seat cushion panel as shown in the photos.



- 9. Remove the seat cushion panel and non-woven fabric (E) from the seat cushion.

**\* NOTICE**

Be careful not to damage the non-woven fabric, because it will be reused when reassembling.





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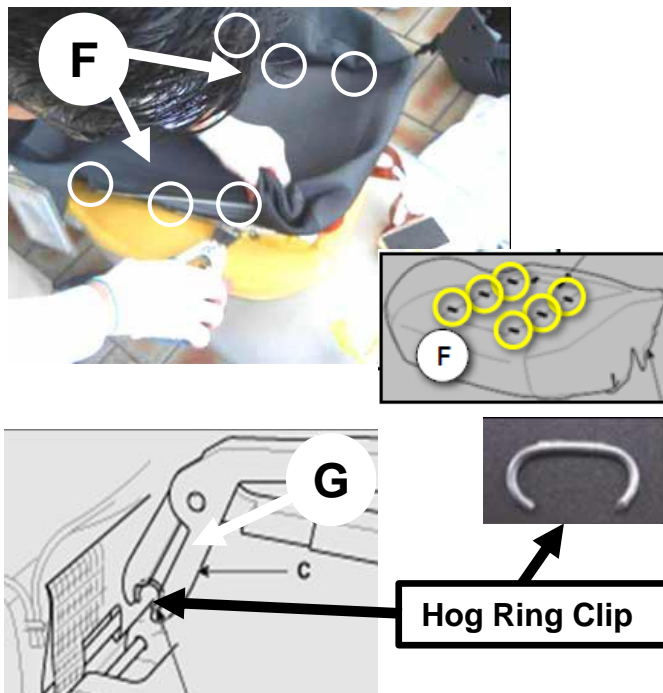
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- Fold back both bolster sides of the seat covering to gain access to the three (3) hog ring clips (F) on each side totaling six (6), then remove clips.

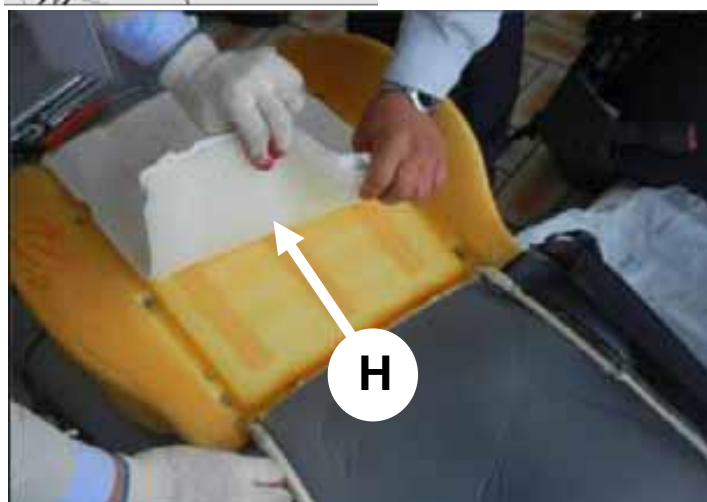
**\* NOTICE**

Please do not remove the two (2) hog rings located in the rear of the seat.

Replace the hog ring clips with new clips (P/N: 88627 11201) using Snap-on (YA808) upholstery pliers or equivalent.



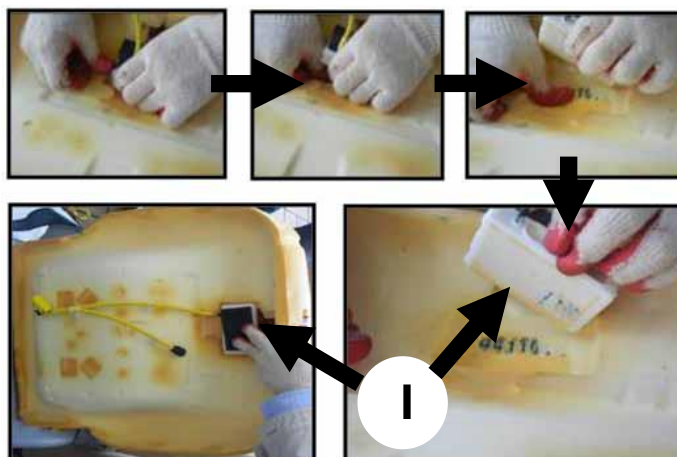
- Slowly detach the OCS mat sensor (H) from the seat cushion to help prevent damage or tearing of the cushion foam.



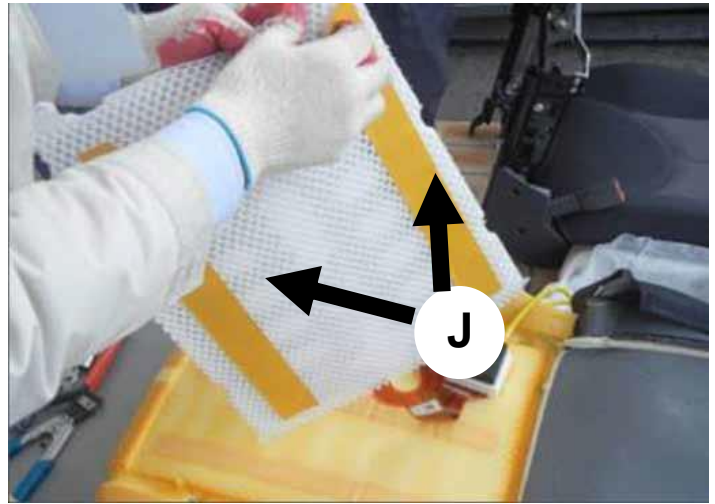
- Carefully and slowly remove the OCS ECU (I) from the seat cushion.

**\* NOTICE**

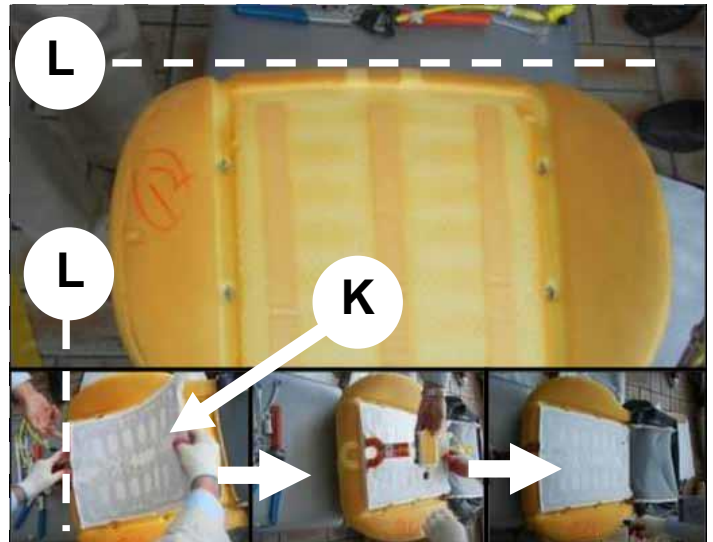
Make sure not to damage the seat cushion foam when detaching the OCS ECU.



- 13. Attach the new OCS mat sensor assembly to the seat cushion.
- 14. Detach the protective tape (J) from new OCS mat sensor assembly.



- 15. Attach the new OCS mat sensor (K) to the seat cushion, aligning the front side of the OCS mat sensor assembly to the front side (L) of the seat cushion as shown in the photo.



**\* NOTICE**

Place the new OCS mat sensor in the correct position prior to applying pressure and adhering it to seat cushion.

- 16. Attach the OCS ECU to the underside of the seat cushion inward as far as possible.

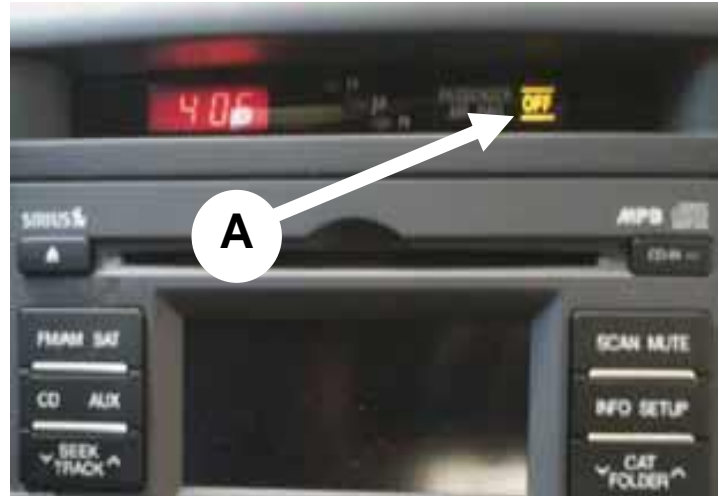
**\* NOTICE**

Carefully reinstall removed non-woven fabric and use new hog rings when reinstalling seat covering.

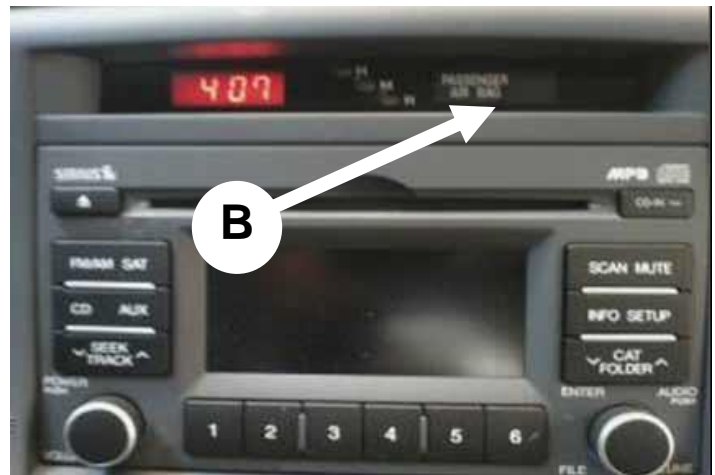


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17. Reinstall all removed components in reverse order of removal.  
Reconnect the battery.
18. Check the operation of PASSENGER AIR BAG indicator lamp.
  - A. Indicator lamp shows **OFF**:
    - Infant or child restraint system with a 12 month old.
    - Unoccupied



- B. Indicator lamp does not show **OFF**: Properly positioned adult or child age 13 and up.



19. Check for any diagnostic trouble codes (DTC) and erase any DTC(s) present.
20. Reset customer's radio station presets as recorded earlier.




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# FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT


## AFFECTED VEHICLE PRODUCTION RANGE:

Model	Model Years	Production Date Range
Rio (JB)	2008 - 2010	Through 3/2/2010
	2010 - 2011	On or after 3/3/2010

## REQUIRED PART:

Part Name	Part Number	Figure	Qty.
OCS Mat Sensor Assembly (produced through 3/2/2010)	88907 1G000QQK		1
OCS Mat Body Sense (produced on or after 3/2/2010)	88950 1G500FFF		1
Hog Ring (Staple Clip)	88627 11201		6

## REQUIRED TOOL:

Part Name	Part Number	Figure
Hog Ring Pliers	09880 4F000A	



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## FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

WARRANTY CLAIM INFORMATION:

OCS SENSOR MAT REPLACEMENT (DTC 1447, 1448, 1449 AND/OR B1450 FOUND):

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty
W	88907 1G000QQK	1	I3R	ZZ3	(BOD 140) OCS Sensor Mat Replacement	Primary Labor Op: 88950F10	0.7 M/H	88627 11201	6
					GDS/KDS Operation	Add: 88951RQ0	0.3 M/H		
W	88950 1G500FFF	1	I3R	ZZ3	(BOD 140) OCS <b>Body Sense</b> Replacement	Primary Labor Op: 88950F10	0.7 M/H	88627 11201	6
					GDS/KDS Operation	Add: 88951RQ0	0.3 M/H		

**Note: Labor time includes R&R seat, seat cushion, and clearing DTCs.**

AIRBAG ILLUMINATION DIAGNOSIS ONLY (NO OCS SENSOR MAT REPLACEMENT):

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	88907 1G000QQK	0	I3R	ZZ3	GDS/KDS Operation	88951RQ0	0.3 M/H	N/A	0

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	88950 1G500FFF	0	I3R	ZZ3	GDS/KDS Operation	88951RQ0	0.3 M/H	N/A	0

**See Warranty Bulletin 2016-13 for additional claim submission information.**