	GROUP BOD	MODEL 2006 ~ 2008MY Optima(MG)
	NUMBER 135	DATE June 2016
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 2006 ~ 2008 MY Optima (MG) 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.



File Under: <Body>

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

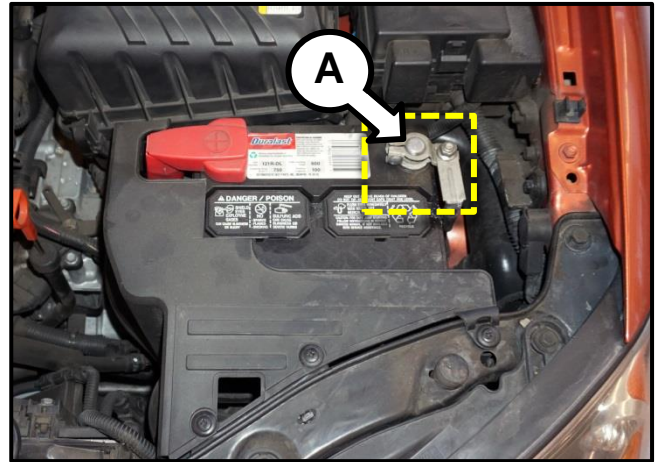
FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

Service Procedure:

1. Record customer's radio presets.
2. Disconnect Negative (-) terminal (A) from the battery. **NOTE: make sure voltage is bled off before proceeding.**

WARNING

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



3. Remove the passenger seat assembly (B) by referring to the applicable Service Manual on KGIS.

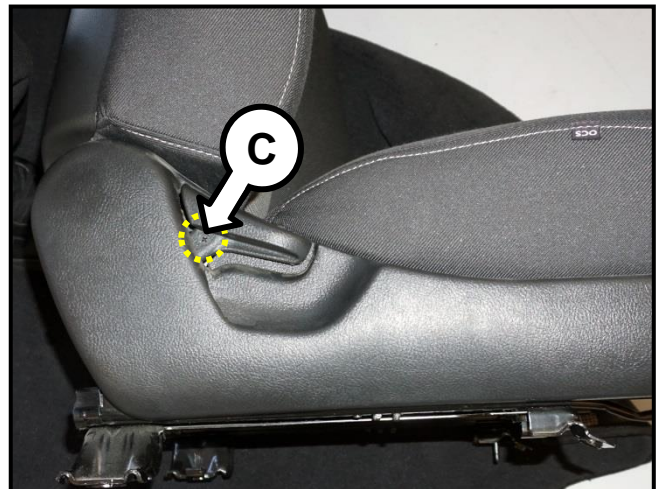
Tightening Torque (Seat Mounting Bolts):
29 ~ 39 lb-ft (39 ~ 53 Nm)

CAUTION

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



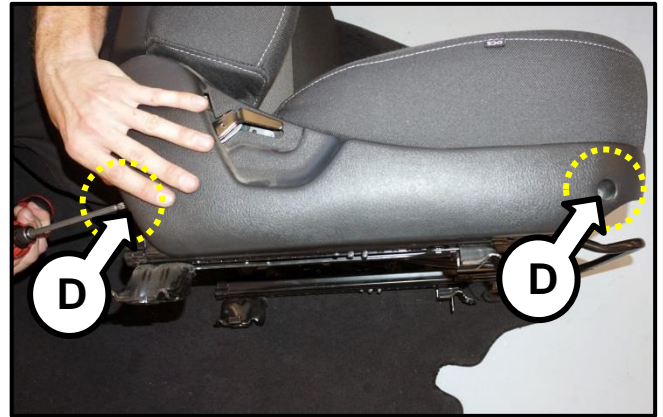
4. Remove one (1) screw (C) securing the seat back release lever cover and remove the cover from the lever.



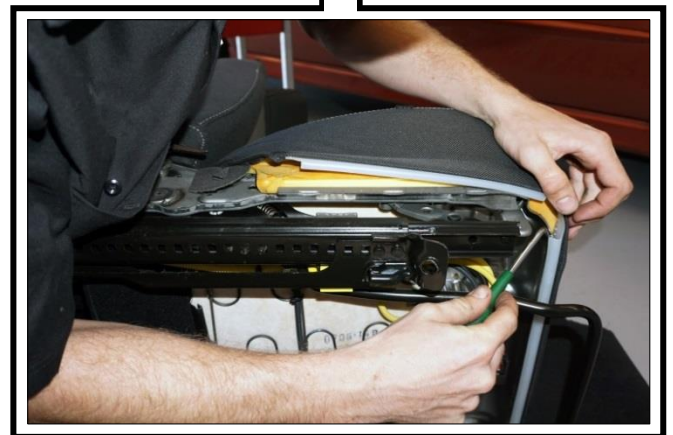
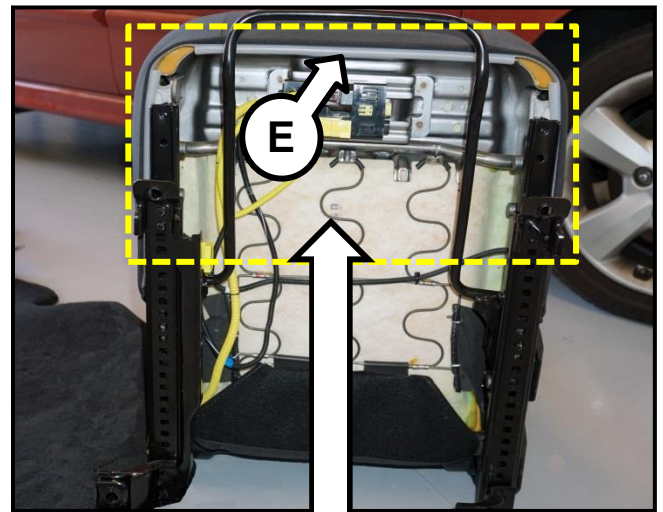
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5. Remove two (2) screws (D) securing the seat side cover to the seat frame and remove the side cover.



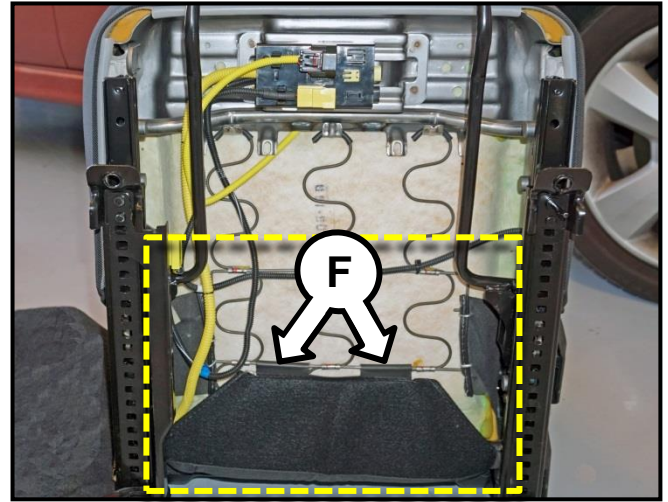
6. Carefully undo the seat cover plastic hooks (E) running across the front of the seat.



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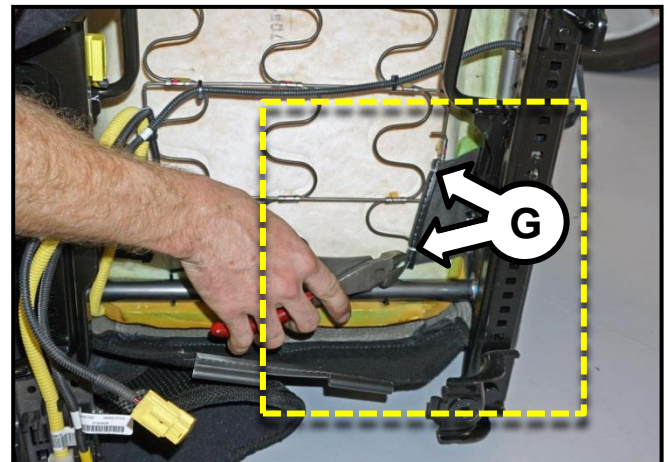
7. Undo two (2) plastic hooks (F) securing the rear seat cover attachment panel.



8. Use a pair of side cutters to remove two (2) hog rings (G) from the right side seat cover attachment panel, as shown.

* NOTICE

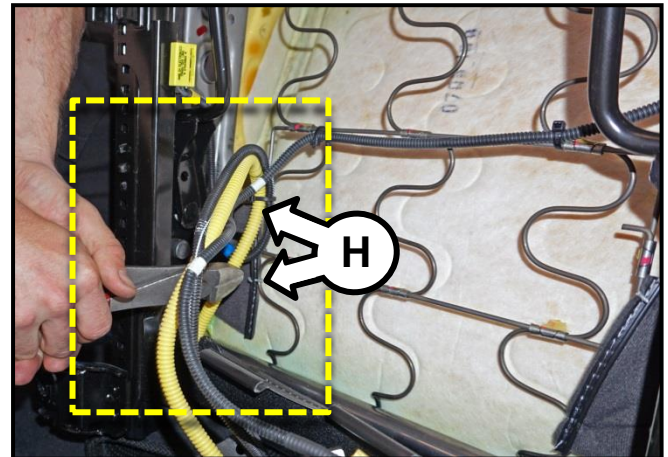
Replace with new hog rings (P/N: 88627 11201). To install the new hog rings, use the Hog Ring Pliers (P/N 09880 4F000A) or equivalent.



9. Use a pair of side cutters to remove two (2) hog rings (H) from the left side seat cover attachment panel, as shown.

* NOTICE

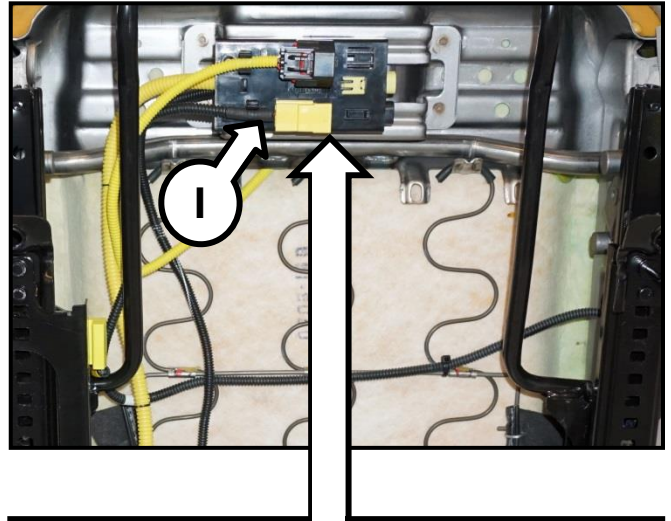
Replace with new hog rings (P/N: 88627 11201). To install the new hog rings, use the Hog Ring Pliers (P/N 09880 4F000A) or equivalent.



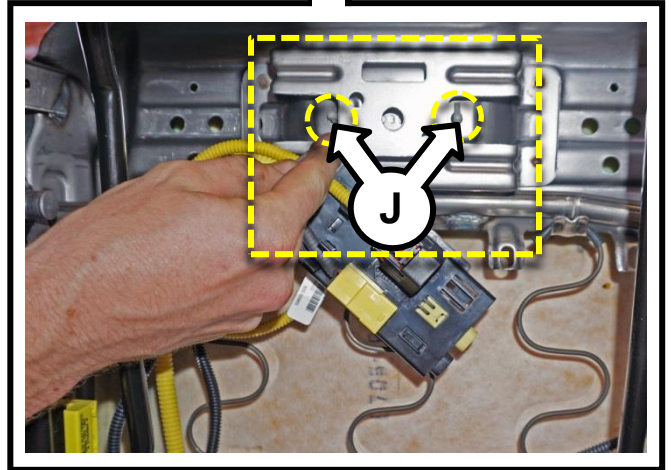
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10. Carefully remove the connector mounting plate (I) from the seat frame.



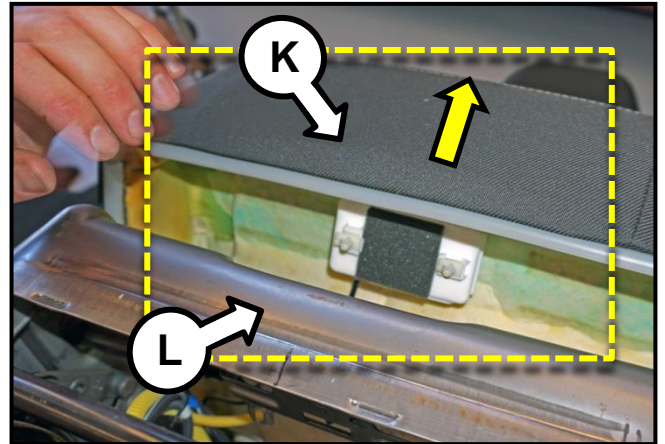
11. Use a pick tool to remove two (2) plastic clips (J) securing the OCS control module to the seat frame.



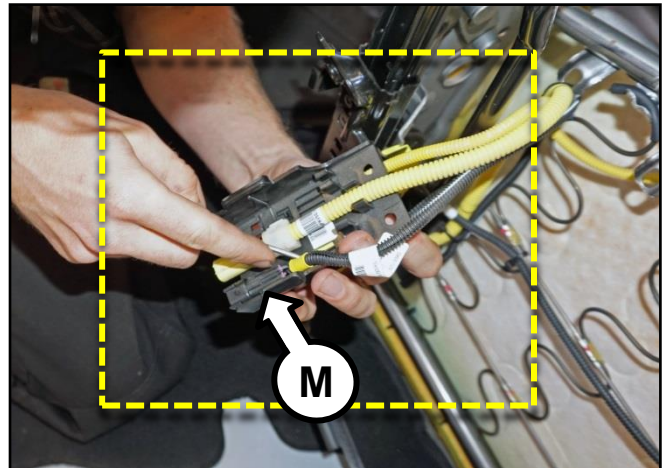
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12. Carefully pull the seat cushion assembly (K) away from the seat frame (L).



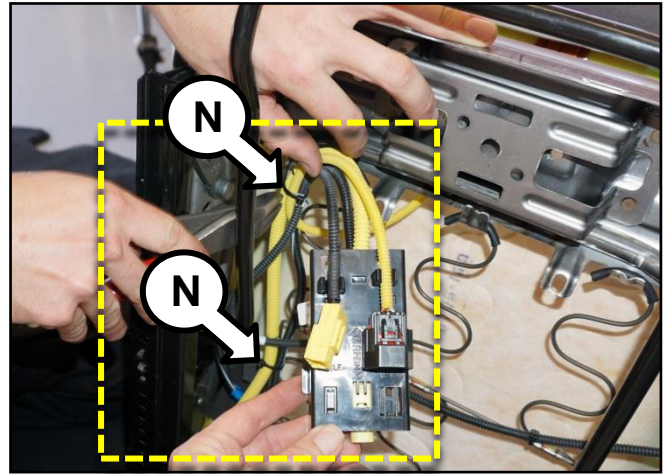
13. Use a pick tool to carefully remove the OCS connector (M) from the mounting plate, as shown.



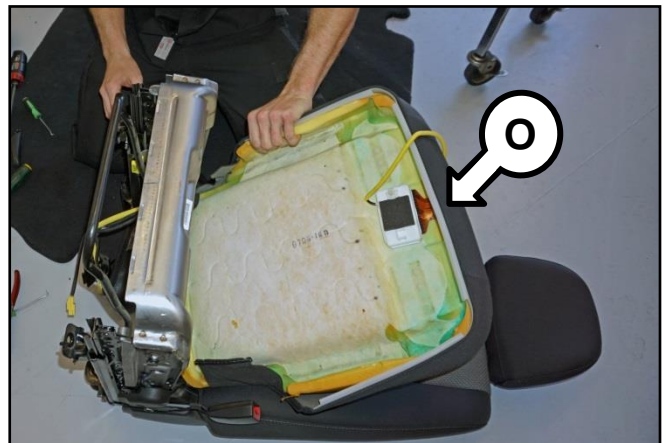
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14. Use a pair of side cutters to carefully remove the cable ties securing all under-seat harnesses together.



15. Carefully remove the seat cushion assembly (O) from the seat frame, as shown.



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- Carefully pull the seat cover material (P) back and remove nine (9) hog rings securing the seat cover to the seat cushion.

★ NOTICE

Replace with new hog rings (P/N: 88627 11201). To install the new hog rings, use the Hog Ring Pliers (P/N 09880 4F000A) or equivalent.

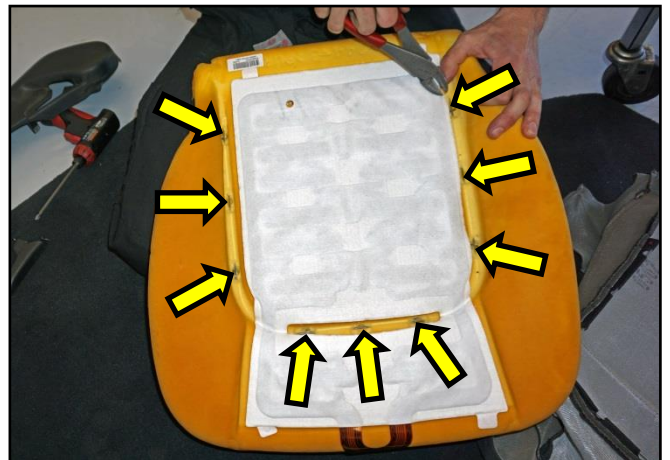


- Remove the seat cover from the lower cushion and inspect each of the nine (9) seat cover attachment points for remaining hog ring debris.



CAUTION

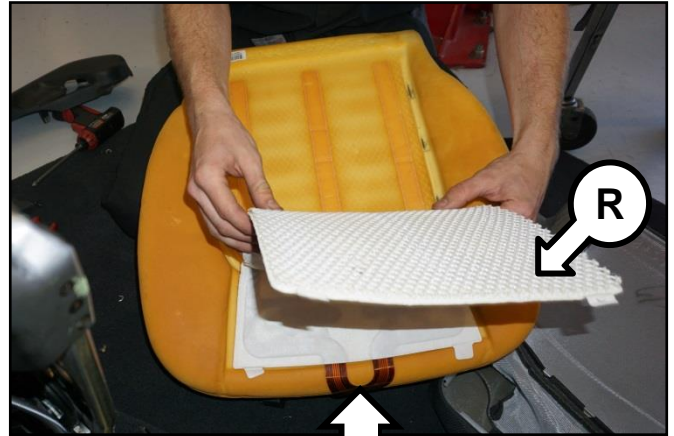
To prevent damaging the seat cover material, make sure to remove all hog ring debris from the lower cushion.



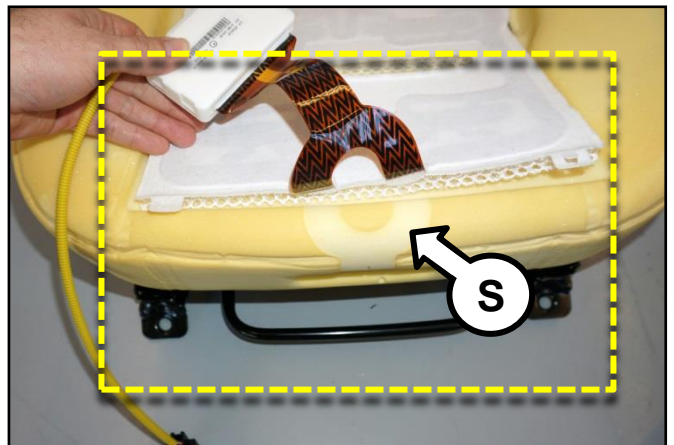
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18. Remove the original OCS mat (R) and harness from the seat cushion, as shown.

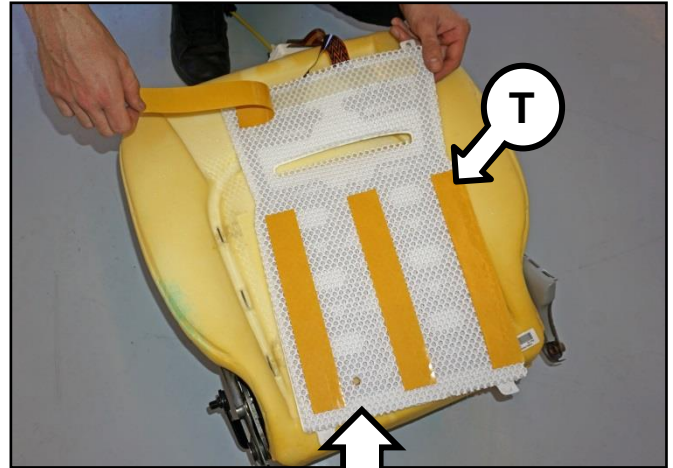


19. Place the replacement OCS mat on the lower cushion and note the indentation in the foam (S). This indentation should be used to align the replacement mat with the seat cushion.

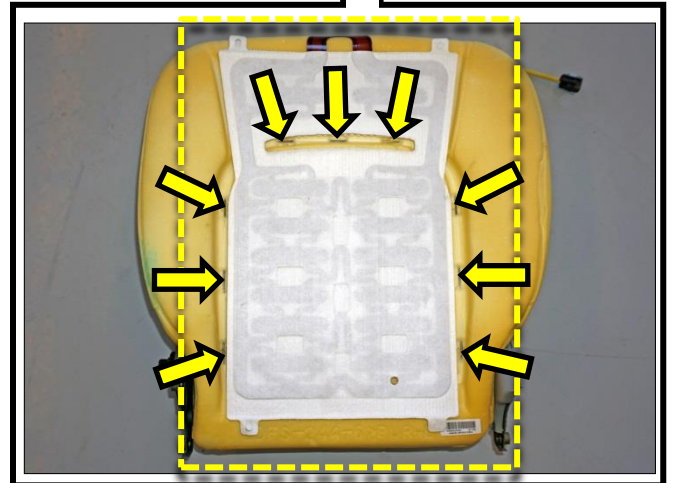


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20. Turn the replacement OCS mat over and remove the protective lining (T) from the four (4) adhesive strips



21. Place the OCS mat on top of the seat and examine the placement mat. **NOTE: make sure the OCS mat does NOT obstruct access to any of the nine (9) seat cover attachment points, as shown.**



* NOTICE

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

22. Press down, as shown, to ensure the OCS mat is firmly adhered in place.



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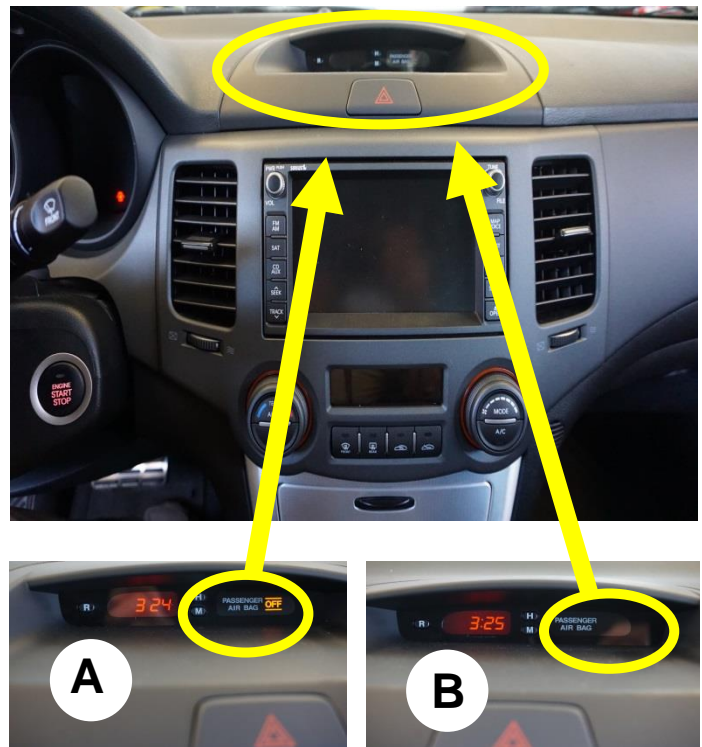
23. Reinstall all removed components by reversing the order of removal.



CAUTION

To prevent damage to the under-seat harnesses, make sure to replace all cable ties removed in step 14.

24. Reconnect the Negative (-) terminal to the battery.
25. Verify the operation of the PASSENGER AIR BAG indicator, as described below:
- A. Indicator lamp shows **OFF**:
Air bag system is not active.
 - B. Indicator lamp does not show **OFF**:
Air bag system is active



26. Check for any diagnostic trouble codes (DTC) and erase any DTC(s) present.
27. Restore the customer's radio presets as recorded in step 1.

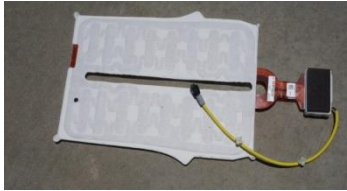

AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Optima (MG)	2006 – 2008 MY


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REQUIRED PART:

Part Name	Part Number	Figure	Qty.
OCS Mat Sensor Assembly	88906 2G500FFF		1
Hog Ring (Staple Clip)	88627 11201		13

REQUIRED TOOL:

Part Name	Part Number	Figure
Hog Ring Pliers	09880 4F000A	

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	88906 2G500FFF	1	I3R	ZZ3	(BOD 130) OCS Sensor Mat Replacement	Primary Labor Op: 88950F10	0.7 M/H	88627 11201	13
					GDS/KDS Operation	Add: 88951RQ0	0.3 M/H		

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

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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	88906 2G500FFF	0	I3R	ZZ3	GDS/KDS Operation	88951RQ0	0.3 M/H	N/A	0

See Warranty Bulletin 2016-12 for additional claim submission information.