

| GROUP | MODEL |
|--------|-----------------------------|
| BOD | 2007~2009MY Spectra (LD) |
| | Specifa (LD) |
| NUMBER | DATE |
| 130 | February 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 2007~2009MY Spectra (LD) vehicles, produced from September 26, 2006 through April 6, 2009. The sensor mat is intended to detect child seats and small stature occupants who could be harmed by deployment of the passenger frontal air bag. 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 the above DTCs are stored, follow the repair procedure outlined in this bulletin to replace the OCS mat.



* NOTICE

Kia is extending the warranty for the OCS sensor mat for the affected vehicles to 15 years / unlimited mileage, starting from the date of first service (provided the condition is not caused by obvious external damage to the OCS sensor mat). Only repairs related to the OCS sensor mat and the necessary diagnoses are covered. For additional information see Kia Warranty Bulletin 2016-03.

| File Under: <body></body> | | | | | | |
|---------------------------|-------|-----------------|----------------------------|-----------------|--|--|
| Circulate To: | ⊠ G | eneral Manager | Service Manager | X Parts Manager | | |
| | or(s) | X Technician(s) | ☒ Body Shop Manager | ☐ Fleet Repair | | |

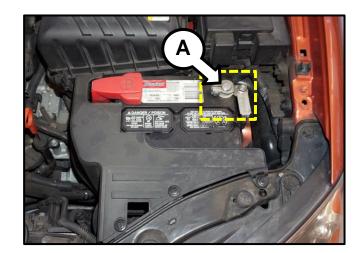
FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

Service Procedure:

- 1. Place the ignition key in the 'OFF' position and record customer's radio presets.
- 2. Disconnect Negative (-) terminal (A) from the battery. **NOTE: make sure voltage is bled off before proceeding.**



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



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

Tightening Torque (Seat Mounting Bolts):

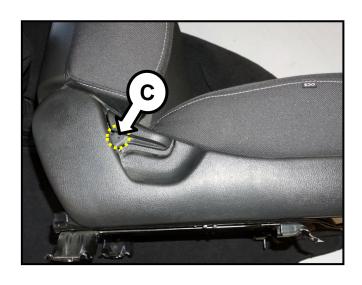
29 ~ 39 lb-ft (39 ~ 53 Nm)



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

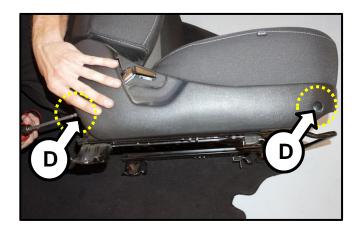
4. Remove one (1) screw (C) securing the seat back release lever cover and remove the cover from the lever.



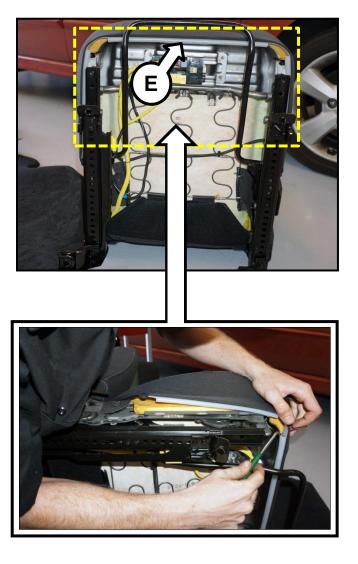


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5. Remove two (2) screws (D) securing the seat side cover to the seat frame and remove the side cover.

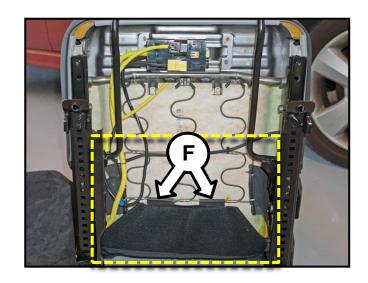


6. Carefully undo the seat cover plastic hooks (E) running across the front of the seat.



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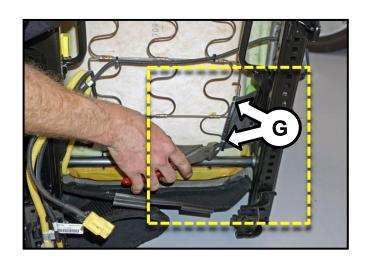
7. Undo two (2) plastic hooks (F) securing the rear seat cover attachment panel.



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

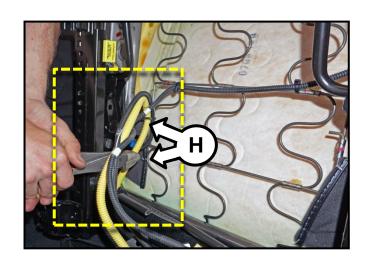
Replace with new hog rings (P/N: 88627 11201). To install the new hog rings, use the Hog Ring Pliers (P/N 09880 4F000A) or equivalent.



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

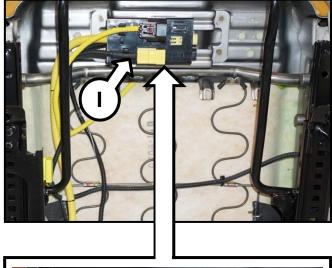
* NOTICE

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.

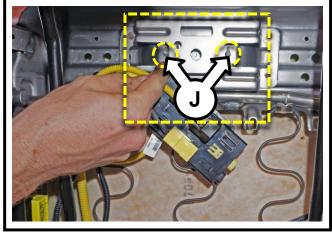


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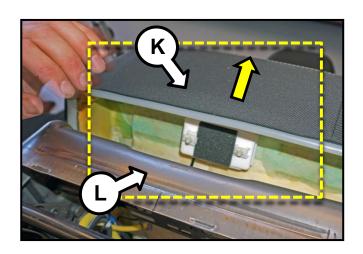
10. Carefully remove the connector mounting plate (I) from the seat frame.



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

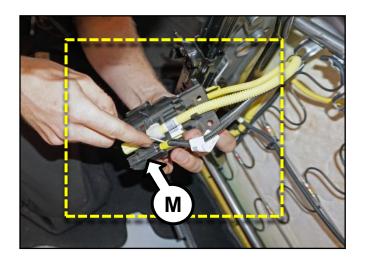


12. Carefully pull the seat cushion assembly (K) away from the seat frame (L).

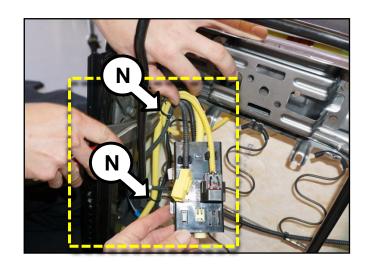


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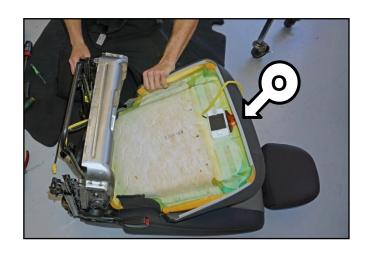
13. Use a pick tool to carefully remove the OCS connector (M) from the mounting plate, as shown.



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.

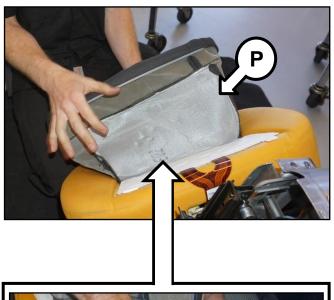


FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

 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.





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

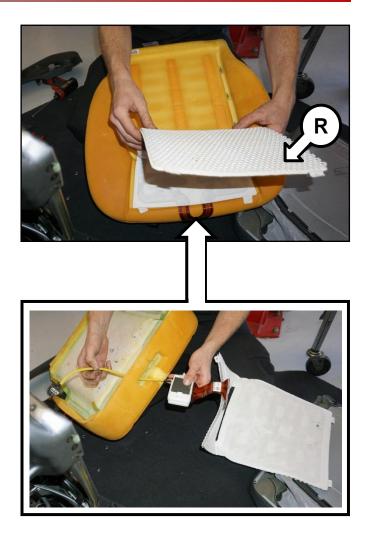
A CAUTION

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

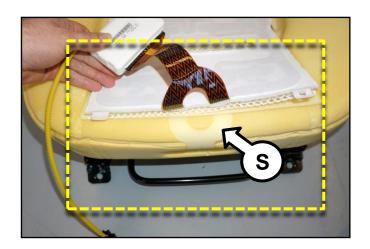


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18. Remove the original OCS mat (R) and harness from the seat cushion, as shown.

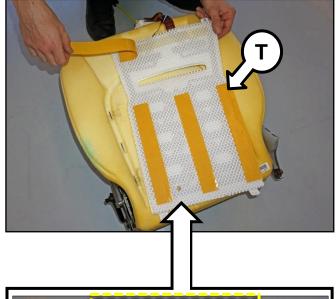


19. Place the replacement OCS mat on the lower cushion and note the indentation in the foam (S). This indentation should be used to align the replacement mat with the seat cushion.



FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

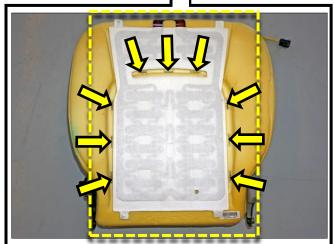
20. Turn the replacement OCS mat over and remove the protective lining (T) from the four (4) adhesive strips



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 <u>MUST</u> be in the correct position prior to applying pressure and adhering it to seat cushion.



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



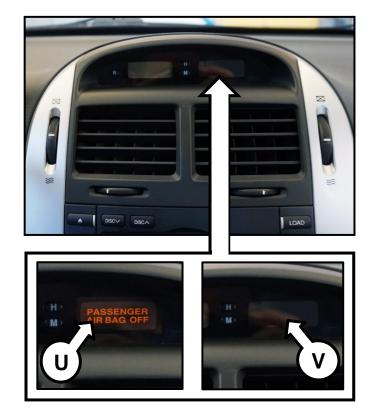
FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

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



To prevent damage to the underseat 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 "OFF" indicator lamp, as described below:
 - 1) Indicator lamp ON (U):
 - Infant or child restraint system with a 12 month old.
 - Unoccupied
 - 2) Indicator lamp OFF (V):
 - Properly positioned adult or child age 13 and up.



- 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.

FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

AFFECTED VEHICLE PRODUCTION RANGE:

| Model | Production Date Range | | |
|--------------|-----------------------|--|--|
| Spectra (LD) | 2007~2009MY | | |

REQUIRED PART:

| Part Name | Part Number | Figure | Qty. |
|----------------------------|----------------|---|------|
| OCS Mat Sensor Assembly | 88906 2F510FFF | | 1 |
| Hog Ring (Staple Clip) | 88627 11201 | \$8627 11201 19 Person 122.00 100 x 2 1123 10 | 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 B4150 FOUND):

| Claim Type | Causal P/N | Qty. | N Code | C Code | Repair Description | Labor Op Code | Op Time | Replacement P/N | Qty. |
|---------------|---------------|-------|-----------|----------------------|---|----------------------------------|-------------|-----------------|------|
| W | W 88906 | 1 I3R | I3R | ZZ3 | (BOD 130) OCS Sensor Mat Replacement | Primary Labor Op: 88907F00 | 0.7 M/H | - 88627 11201 | 13 |
| | 2F510FFF | | 220 | GDS/KDS Operation | Add: 88951RQ0 | 0.3 M/H | 00027 11201 | | |

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

FRONT PASSENGER OCS SENSOR MAT DIAGNOSIS AND REPLACEMENT

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 2F510FFF | 0 | I3R | ZZ3 | GDS/KDS Operation | 88951RQ0 | 0.3 M/H | N/A | 0 |

See Warranty Bulletin 2016-03 for additional claim submission information.