



**KIA MOTORS**

GROUP  
Body

MODEL  
Sorento (XM),  
Optima (MG), Rio (JB)

NUMBER  
072

DATE  
October 2010

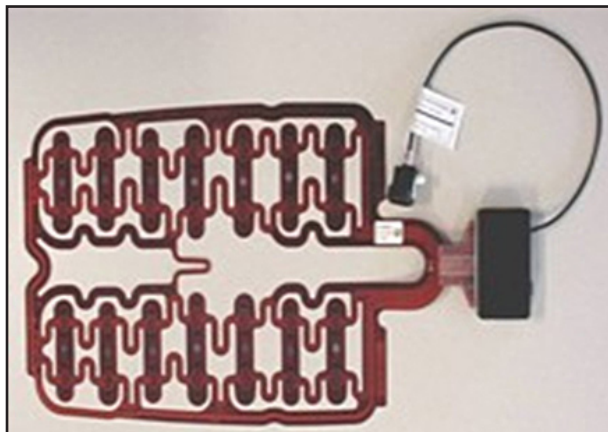
## TECHNICAL SERVICE BULLETIN

**SUBJECT:** TROUBLESHOOTING DTC B1447/B1448/B1764/B1767  
(AIRBAG WARNING LAMP ILLUMINATED) ON VEHICLES WITH  
ELECTRIC FIELD OCCUPANT CLASSIFICATION SENSOR

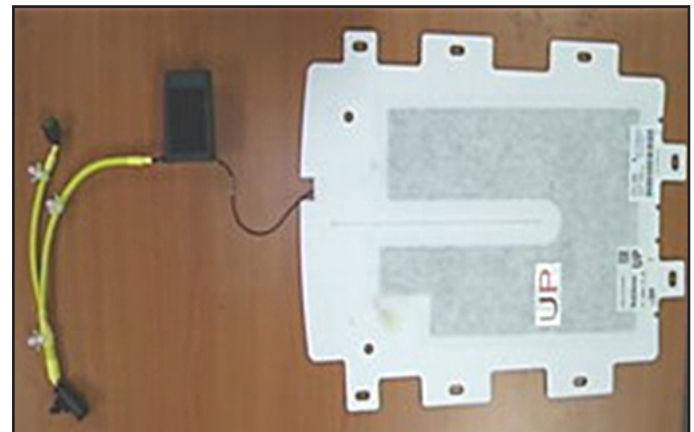
This bulletin provides information relating to the occupant detection and classification system on certain Sorento (XM), Optima (MG), and Rio (JB) vehicles, as shown below:

Model	Model Years	Applicable Production Dates
Sorento (XM)	2011 to current	All 2011 MY to current
Optima (MG)	2009, 2010	August 28, 2008 to current
Rio (JB)	2010 to current	March 3, 2010 to current

The purpose of this TSB is to ensure a proper response to the appearance of certain DTC codes that identify a certain temporary condition. On these vehicles, the occupant detection and classification system uses an **electric field sensor** instead of a pressure sensor. The customer is advised in the Owner's Manual not to place any electronic device on or near the seat cushion because it can defeat the OCS. **The electric field sensor is sensitive to interference from certain electronic devices, and is also sensitive to the seat getting wet.**



*Other models: Pressure sensor*



*Models described in this TSB:  
Electric field sensor*

File Under: <Body>

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

**SUBJECT:**

TROUBLESHOOTING DTC B1447/B1448/B1764/B1767  
(AIRBAG WARNING LAMP ILLUMINATED) ON VEHICLES WITH  
ELECTRIC FIELD OCCUPANT CLASSIFICATION SENSOR

If certain electronic devices such as cellular phones, laptop computers, inverters, DVD players, radio transmitters, GPS navigation systems, satellite radio systems, video games, and MP3 players are put on/around a passenger seat cushion (including in the seatback pocket) or if liquid is spilled on the seat cushion, the airbag warning lamp may illuminate with DTC B1447, B1448, B1764, or B1767.

DTC Description
<b>B1447:</b> OC Passenger ECU Defect
<b>B1448:</b> OC Passenger Sensor Mat Defect
<b>B1764:</b> BodySense MAT Defect
<b>B1767:</b> BodySense Algo Cut-Off

**Before attempting to diagnose or repair the occupant classification system:**

1. Verify that the seat cushion is completely dry.
2. Verify that nearby electronic devices are turned off.
3. Clear DTC(s).
4. If DTC(s) do not re-code after this, review the above information with the customer. Do not attempt to make a repair.
5. If DTC(s) do re-code after this, proceed with diagnosis according to Service Information on KGIS.