



GROUP  
Transmission

MODEL  
2011-2012MY  
Sorento (XMa)

NUMBER  
045 [Rev 1], 11/13/12

DATE  
November 2012

## TECHNICAL SERVICE BULLETIN

**SUBJECT:** COMBINED TSB/SERVICE ACTION: 6-SPEED AUTOMATIC  
TRANSAXLE INHIBITOR SWITCH BRACKET INSTALLATION (SA126)

### \*NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information relating to some Sorento (XMa) vehicles produced from October 27, 2009 to February 25, 2011 which may experience a No-Start condition, uneven engagement when shifting gears and/or P0705 stored in the Power-train Control Module (PCM). To correct this concern, install the inhibitor switch bracket on the inhibitor switch by following the Service Procedure outlined below. Kia is requesting the completion of this Service Action on all affected Sorento vehicles. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

For vehicles not on the Affected Vehicles List, but with a customer concern as described above, perform the following procedure outlined in this bulletin and submit a warranty claim per "customer concern" (Standard TSB) claim information on page 6.

- **DTC P0705:** Transmission Range Sensor Circuit Malfunction



*Inhibitor Switch  
Bracket Kit*

### \*NOTICE

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on WebDCS (Service> Warranty Coverage> Warranty Coverage Inquiry> Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs> Not Completed Recall> Recall VIN> Select Report), which includes a list of affected vehicles.

This issue number is SA126.

File Under: <Engine>

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

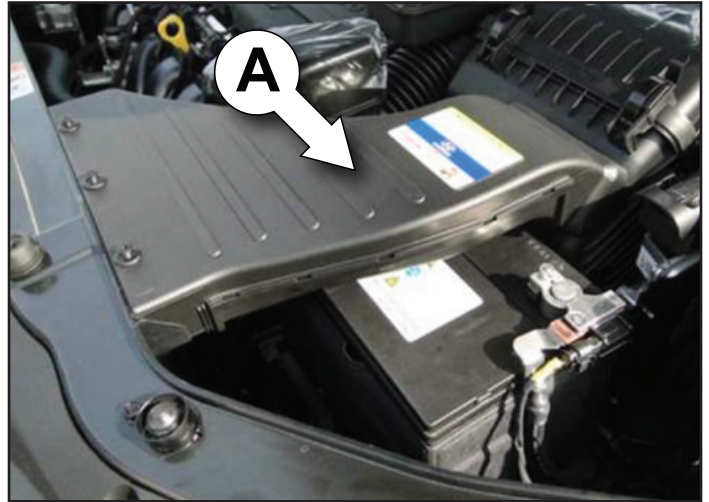
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**Service Procedure:**

1. Apply parking brake. Place the shift lever in the "N" position.

Turn the ignition switch to the OFF position.

Remove the air duct (A).

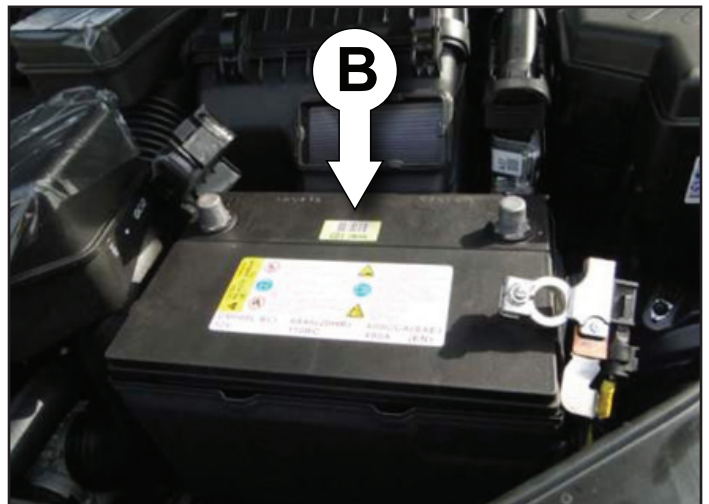


2. Record customer's radio stations before disconnecting battery.

Remove the battery assembly (B).

**Tightening Torque Specification:**

**Battery mounting bolt:**  
7.2~8.7lb-ft (9.8~11.8 Nm)

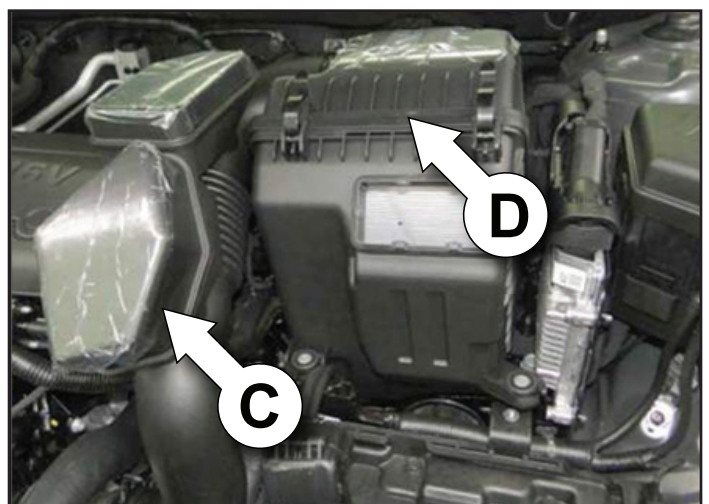


3. Remove the air intake hose (C) and the air cleaner assembly (D).

**Tightening Torque Specifications**

**Hose clamp bolt:**  
2.2~3.6 lb-ft (2.9~4.9 Nm)

**Air cleaner assembly bolt:**  
5.8~7.2lb-ft (7.8~9.8Nm)

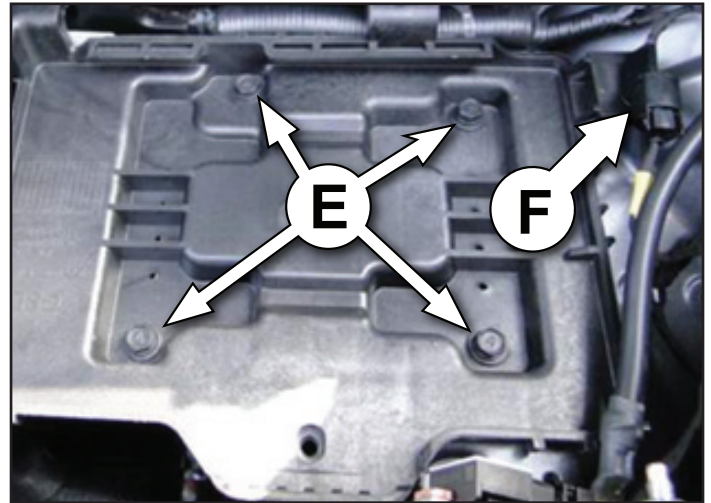


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4. Remove the battery tray by loosening mounting bolts (E).

**Tightening Torque Specification: (E)  
9.8~11.8 Nm 7.2~8.7 lb-ft**

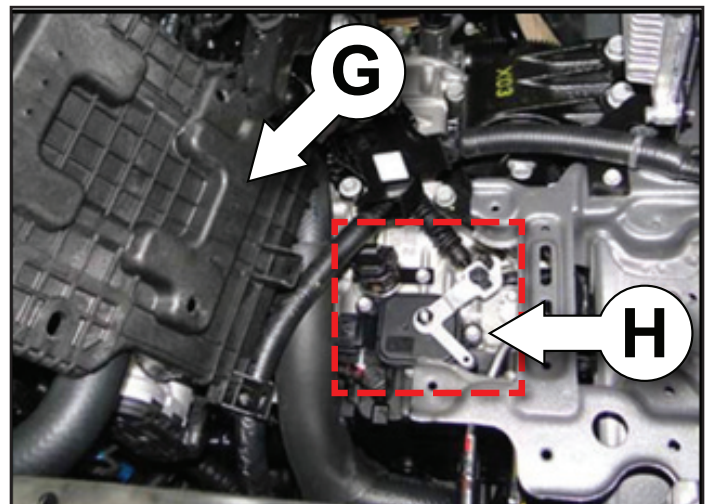
Disconnect connector (F) from the battery tray.



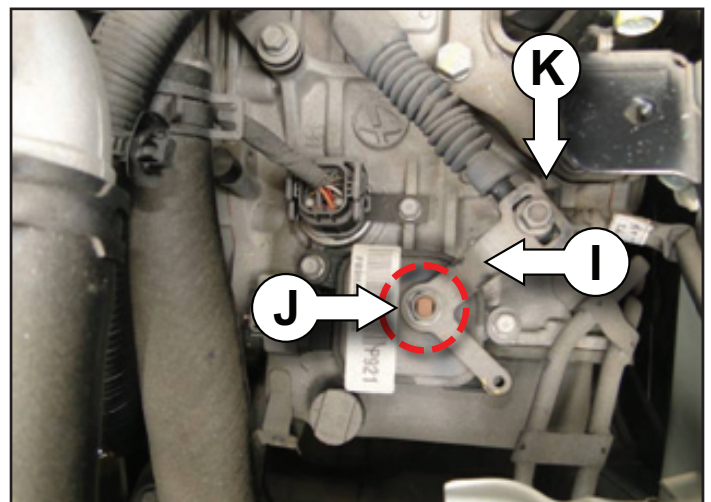
5. Move the battery tray (G) aside to gain access to the inhibitor switch (H).

**\*NOTICE**

Before performing step 6, make sure the shift gear selector is in the neutral position.

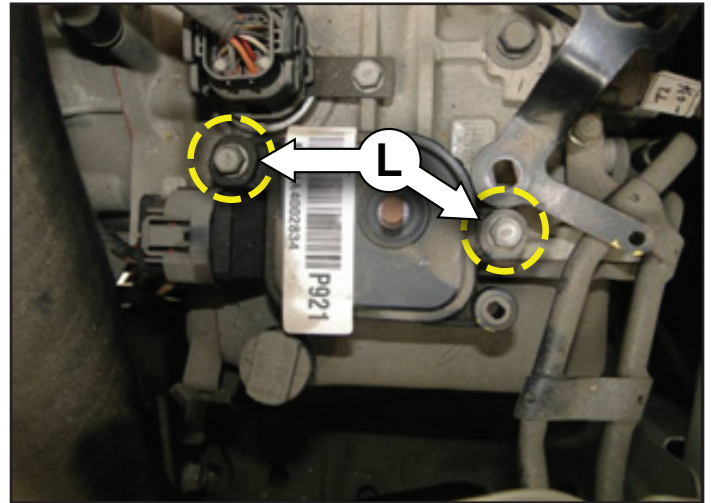


6. Remove the manual control lever mounting nut (J) and washer. Set the manual control lever (I) aside. Do not loosen or remove the shift cable mounting nut (K) or adjustment may be required.

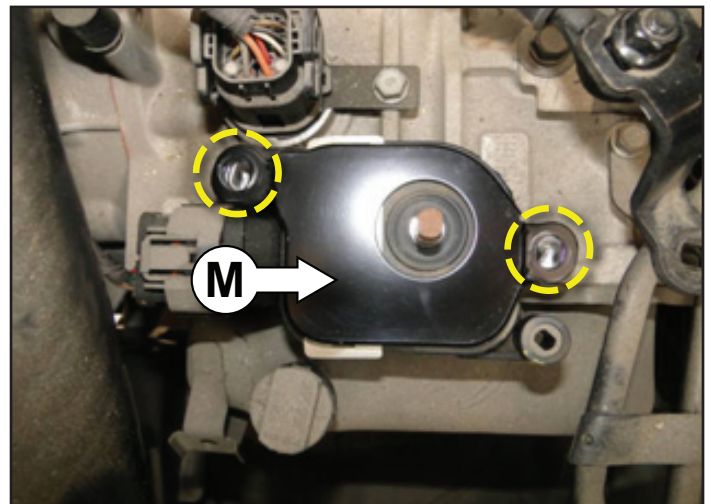


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7. Remove two (2) inhibitor switch mounting bolts (L). Discard the bolts as they will not be re-used.



8. Install the new inhibitor switch bracket (M) to the inhibitor switch, install new retaining bolts but leave slightly loose for adjustment.

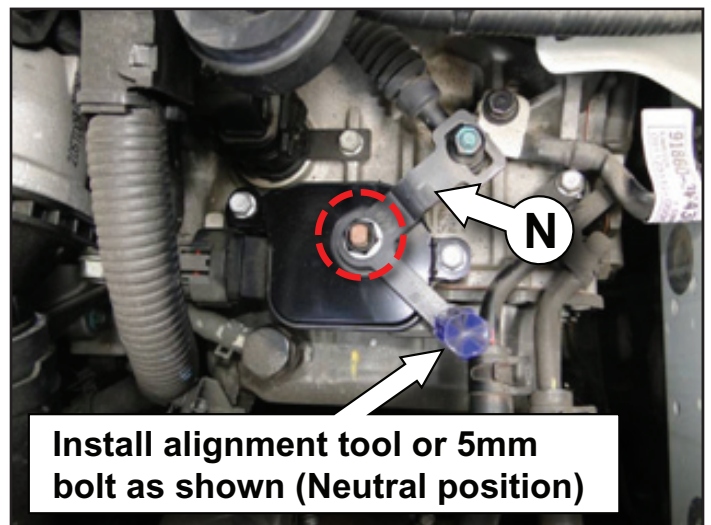


9. Re-install the removed manual control lever (N) to the inhibitor switch and tighten nut.

**Tightening Torque:**  
**13.0~18.0 lb-ft (17.7~24.5 Nm)**

**\*NOTICE**

During installation, position the manual control lever in place with a 5mm bolt or suitable alignment tool, then tighten the inhibitor switch assembly mounting nut and washer.

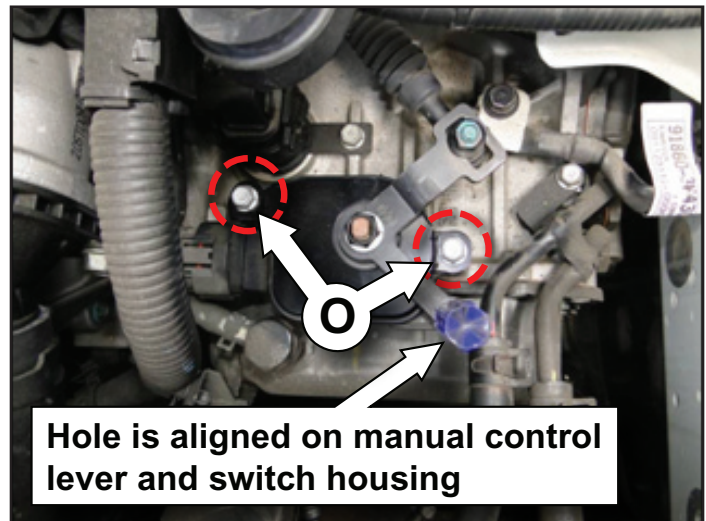


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10. Tighten the two (2) inhibitor switch bolts (O).

**Tightening Torque:  
7.2~8.7 lb-ft (9.8~11.8 Nm)**

Reinstall the other removed components in reverse order of removal.




11. Reprogram radio station presets as recorded in step 2.

12. Start the vehicle and check for proper operation of transmission.

**AFFECTED VEHICLE PRODUCTION RANGE:**

Model	Production Range
Sorento (XMa)	October 27, 2009 to February 25, 2011

**REQUIRED PART:**

Part Name	Part Number	Figure
Inhibitor Switch Bracket	42700 3B900QQK	
Inhibitor Switch Bracket	42700 3B900FFF	

**REQUIRED SST:**

SST Name
Alignment tool or 5mm bolt to align lever to switch assembly.

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**SERVICE ACTION WARRANTY CLAIM INFORMATION:**

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Replacement P/N	Qty
V	42700 3B000	0	N69	C15	(SA126) A/T Inhibitor Switch Bracket (6-spd)	120A04R0	0.6 M/H	42700 3B900QQK	1

**Note: Only one Labor Op can be claimed.**

**STANDARD WARRANTY CLAIM INFORMATION:**

Use this information only to file a warranty claim for vehicles for which:

1. A customer complains of the same concern.
2. The VIN does not appear on the Affected Vehicles List for Service Action 126.
3. The vehicle model year and production date range are as identified in this bulletin.

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Replacement P/N	Qty
W	42700 3B000	0	N69	C15	(TRANS 045) A/T Inhibitor Switch Bracket (6-spd)	42700F00	0.6 M/H	42700 3B900FFF	1

**Note: Only one Labor Op can be claimed.**

**\*NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA126 when accessing the WebDCS system.