

Technical Service Bulletin

GROUP	NUMBER		
AUTOMATIC TRANSMISSION	13-AT-013-1		
DATE	MODEL		
NOVEMBER 2013	Tucson (LM), Santa Fe (CM/AN/NC), Sonata (YF/YF HEV), Elantra (UD/MD/GD/JK), Accent (RB), Azera (TG/HG), Veloster (FS)		

SUBJECT:

AUTOMATIC TRANSAXLE (6-SPEED)
INHIBITOR SWITCH DTC P0705, P0706, P0707 & P0708

This TSB supersedes TSB 13-AT-013 to revise the Description and Parts Information.

Description: An improperly adjusted or improperly operating inhibitor switch (range switch) may result in one or more of the following conditions:

- Diagnostic trouble codes:
 - > P0705 Range switch sensor circuit
 - > P0707 Range switch open circuit
 - > P0706 Range switch range/performance
 - ➤ P0708 Range switch short circuit or multiple inputs
- Malfunction Indicator Light (MIL) illuminated
- Intermittent no engine crank/no engine start in "P" or "N", with or without DTC

Model Year(s) 2010~	Model		
	Santa Fe (CM)		
2011~		Tucson (LM) produced from January 13, 2011	
Applicable	Sonata (YF) produced from August 26, 2010		
	Sonata (YF) HEV, Elantra (UD/MD) & Azera (TG)		
	Accent (RB), Azera (HG)		
	2013~	Veloster Turbo (FS), Elantra Coupe (JK), Elantra GT (GD) and Santa Fe (AN/NC)	

SUBJECT:

PARTS INFORMATION:

MODEL	APPLIED DATE	PNC CODE	PART NUMBER
2012~ Accent (RB)	ALL		42700-26***
2011 Azera (TG)	ALL		42700-3B000
2012~ Azera (HG)	ALL		42700-3B100
2011~ Elantra (MD/UD)	ALL		42700-26***
2013~ Elantra Coupe (JK)	ALL		42700-26***
2013~ Elantra GT (GD)	ALL		42700-26***
2010~12 Santa Fe (CM)	ALL	45056B	42700-3B000
2013~ Santa Fe (AN/NC)	ALL	45956B	42700-3B100
2011~ Sonata (YF)	ALL		42700-26***
2011~ Sonata Turbo (YF)	ALL	1 The First Control of the Control o	42700-26***
2011~ Sonata HEV (YF HEV)	ALL		42700-26***
2010~ Tucson (LM)	ALL		42700-3B***
2012~ Veloster (FS) DCT	oster (FS) DCT ALL		42700-23000
2013~ Veloster Turbo	ALL		42700-3B100

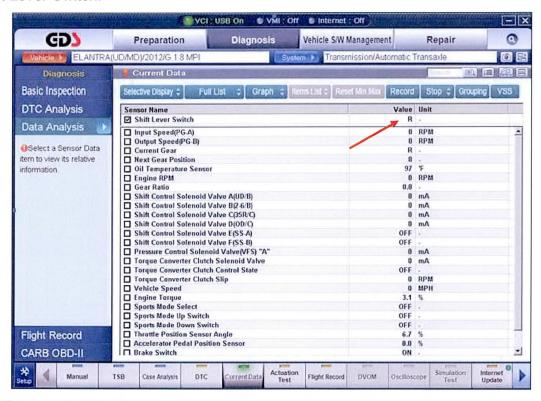
WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
2012~ Accent (RB)	42700R00	Replace inhibitor switch	0.5	42700-**** (See Parts Catalog)	N69	C15
2011 Azera (TG)			0.6			
2012~ Azera (HG)			0.4			
2011~ Elantra (MD/UD)			0.4			
2013~ Elantra Coupe (JK)			0.4			
2013~ Elantra GT (GD)			0.4			
2010~ Santa Fe (CM)			0.5			
2013~ Santa Fe (AN/NC)			0.6			
2011~ Sonata (YF)			0.4			
2011~ Sonata Turbo (YF)			0.4			
2011~ Sonata HEV (YF HEV)			0.4			
2010~ Tucson (LM)			0.4			
2012~ Veloster (FS) DCT			0.4			
2013~ Veloster Turbo (FS)			0.4			
All	42700RQ0	GDS	0.3			

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SERVICE PROCEDURE:

- 1. Turn the ignition key to the ON position or push the Start/Stop Button two times.
- 2. Using a GDS, check for DTC in the "Automatic Transaxle" menu. **Record the DTC and description.** Delete the DTC.
- 3. Select the following parameters. Move the shift lever through all gears and monitor the sensors.
 - · Vehicle and A/T menu.
 - "Current Data"
 - Shift Lever Switch.



- If the Shift Lever Switch shows:
 - The correct shift lever position, the wiring <u>currently</u> has no open/short circuits. Go to Step 6.
 - Does not show the correct shift lever position, go to Step 5.
- Visually check the wiring harness between the PCM and inhibitor switch for a damaged wire or open circuit/short circuit to ground. Check for a damaged pin or pin not fully inserted into the connector.
 - If damage exists, repair or replace the control wiring and drive the vehicle to confirm the repair.
 - If no damage or open/short circuit is found, go to Step 6.

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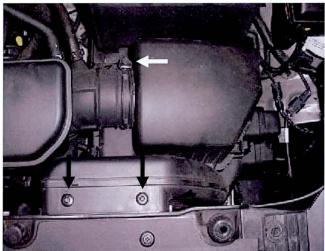
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6. Place the shift lever to the "N" position.

Turn the ignition switch to the OFF position.



7. Remove the air duct and air cleaner, if needed, to access the inhibitor switch.



8. Remove the battery, if needed, to access the inhibitor switch.

* NOTE

Record the preset radio stations and reset after repairs are completed.



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9. If the battery was removed in Step 8:

Remove 2 bolts to the air cleaner.

Remove 4 bolts to the battery tray and remove the battery tray.

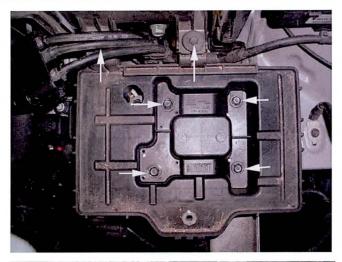
Tightening Torque: 7~9 lb-ft (1.0~1.2kgf.m)

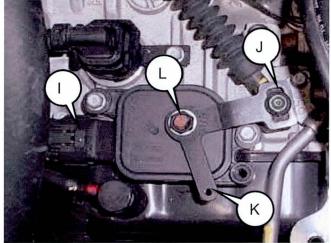
Move the battery tray aside to gain access to the inhibitor switch.



Remove the shift cable mounting nut (J).

Remove the nut (L) and washer and remove the manual control lever (K).

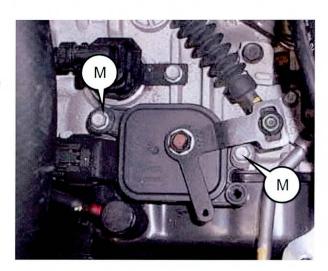




11. Remove 2 mounting bolts (M) and remove the inhibitor switch assembly.

Install the new inhibitor switch assembly to the transaxle and tighten the mounting bolts.

Torque: 7~9 lb-ft (1.0~1.2kgf.m)



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12. Install the manual control lever, washer and nut to the new inhibitor switch and tighten the nut.

Torque: 13~18 lb-ft (1.8~2.5kgf.m)

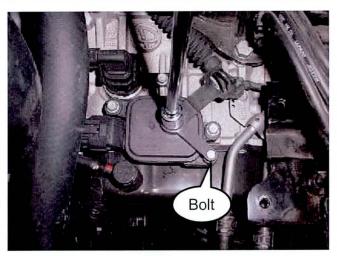


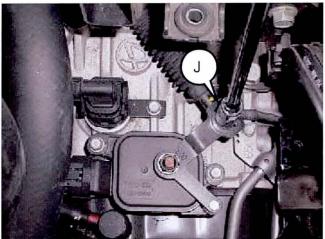
Insert a 5mm bolt or screwdriver in the alignment hole before tightening the nut.

13. Install the shift cable mounting nut (J) and tighten the mounting nut to specification.

Torque: 6~9 lb-ft (0.8 ~ 1.2 kgf.m)

Remove the bolt or screwdriver from the alignment hole.





14. Reinstall all the removed parts in reverse order of removal

* NOTE

Reset the radio stations after repairs are completed.

- 15. Clear the codes and test drive the vehicle for two drive cycles (two key-on to key-off driving cycles). If the DTC:
 - Do not occur again, return the vehicle to the customer.
 - Occurs again, tighten the ground bolts for the rear combination lights. If the bolt was not loose, go to the next step.
 - If the DTC occur again, repair or replace the control wiring between the PCM and inhibitor switch.
 - If the DTC occur again, replace the PCM/TCM.
- 16. Clear DTC in the BlueLink system per instructions of TSB 12-BE-005-2, if applicable.

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