SB-10054172-8916



Technical Service Bulletin

GROUP	NUMBER 12-AT-022-1 MODEL Tucson (LM), Santa Fe (CM), Sonata (YF), Elantra (UD/MD/GD/JK), Accent (RB), Azera (TG/HG), Veloster Turbo		
AUTOMATIC TRANSMISSION			
DATE			
OCTOBER 2012			

SUBJECT:

AUTOMATIC TRANSAXLE (6-SPEED)

INHIBITOR SWITCH DTC P0705, P0706, P0707 & P0708

This TSB supersedes 12-AT-022 to revise the Parts Information

Description: An improperly adjusted or improperly operating inhibitor switch (range switch) may result in 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
- Impossible engine start in "P" or "N"

	Model Year(s)	Model			
	2010~	Santa Fe (CM)			
Applicable 2011~		Tucson (LM) produced from January 13, 2011			
Vehicles:	2011~	Sonata (YF) produced from August 25, 2010			
	2011~	Sonata (YF HEV), Elantra (UD/MD) & Azera (TG)			
	2012~	Accent (RB), Azera (HG)			
2013~		Veloster Turbo (FS) & Elantra Coupe (JK) & Elantra GT (GD)			

PARTS INFORMATION:

MODEL	APPLIED DATE PNC CODE		PART NUMBER	
2010~ Tucson (LM)	1/13/2011~		42700-3B000	
2010~ Santa Fe (CM)	ALL	ALL		
2011~ Sonata Turbo (YF)	ALL		42700-26000	
2011~ Sonata (YF)	AND		42700-26000	
2011~ Sonata HEV (YF HEV)			42700-26000	
2011~ Elantra (MD/UD)	ALL	45055D	42700-26000	
2011 Azera (TG)	ALL	45955B	42700-3B000	
2012~ Azera (HG)	ALL		42700-3B100	
2012~ Veloster Turbo (FS)	ALL		42700-3B100	
2012~ Accent (RB)	ALL		42700-26000	
2013~ Elantra GT (GD)	ALL		42700-26000	
2013~ Elantra Coupe (JK)	ALL		42700-26000	

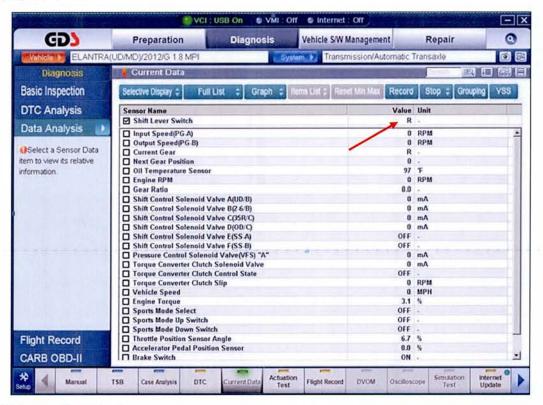
WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE		
2010~ Tucson (LM)	42700R00		0.4					
2010~ Santa Fe (CM)			0.5					
2011~ Elantra (MD/UD)			0.4					
2011~ Sonata (YF)			0.4					
2011 Azera (TG)			0.6					
2012~ Azera (HG)		42700R00	2700R00 Replace inhibitor switch	0.4	See Parts	Noo	045	
2012~ Accent (RB)			1	minoitor owitori	0.5	Catalog	N69	C15
2013~ Veloster Turbo				0.4				
2013~ Elantra Coupe (JK)		*1	0.4					
2013~ Elantra GT (GD)			0.4					
2011~ Sonata YF HEV 4270			0.4					
	42700RH1	Additional	1.5					
All	42700RQ0	GDS	0.3					

TSB #: 12-AT-022-1 Page 2 of 6

SERVICE PROCEDURE:

- 1. Turn the ignition key to the ON position or push the Start/Stop Button two times.
- 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.



- 4. 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.

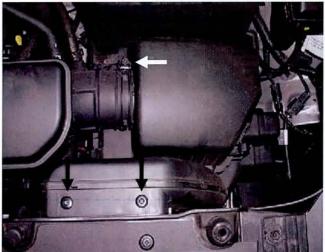
TSB #: 12-AT-022-1 Page 3 of 6

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.



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

* NOTE

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



TSB #: 12-AT-022-1 Page 4 of 6

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.

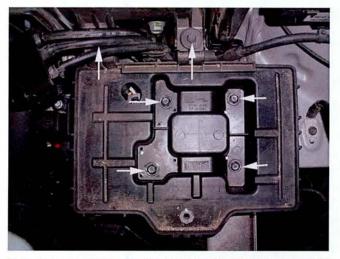
Tightening Torque: 7~9 lb-ft (1.0~1.2kgf.m)

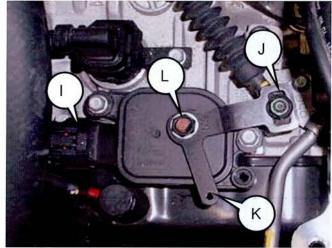
Move the battery tray aside to gain access to the inhibitor switch.



Remove the shift cable mounting nut (J).

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

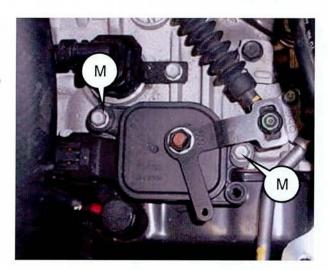




11. Remove 2 mounting bolts (M) and remove the inhibitor switch assembly.

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

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



TSB #: 12-AT-022-1 Page 5 of 6

 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)

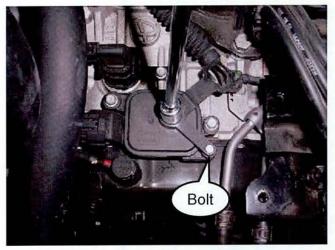


Insert a 5mm bolt or screwdriver in the alignment hole before tightening the nut.

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. Re-install 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.
 - Occur again, repair or replace the control wiring between the PCM and inhibitor switch.
 - If the DTC occur again, replace the PCM/TCM.