



HYUNDAI Technical Service Bulletin

Group	TRANSAXLE
Number	06-40-013
Date	SEPTEMBER, 2006
Model	2001~ SANTA FE & XG, 2002~ SONATA, 2003~ TIBURON, 2005~ TUCSON, 2006~ AZERA

Subject
AUTOMATIC TRANSAXLE “SHIFTRONIC” DIAGNOSIS

This TSB supersedes bulletin 02-40-013-1 to add new models.

DESCRIPTION:

If you are servicing a vehicle equipped with a “SHIFTRONIC™” automatic transaxle that has the following symptoms, refer to the repair procedure shown below:

- Will not shift in “D” position, but shifts correctly in “Sports Mode”
- Will not upshift or downshift in “Sports Mode”



TEST PROCEDURE:

Attach a Hi-Scan Pro or GDS and select:

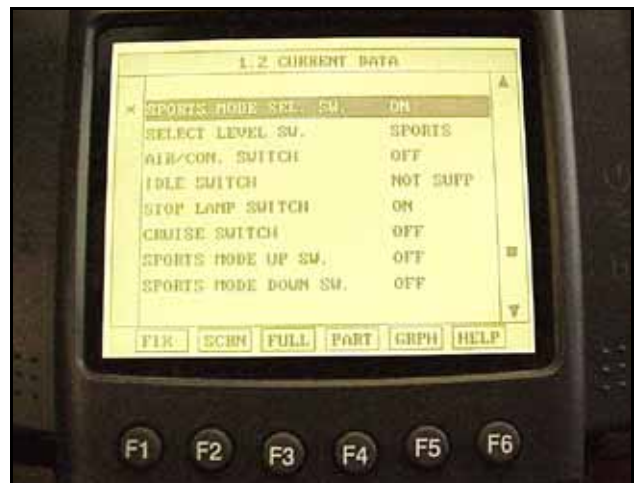
- Hyundai Vehicle Diagnosis
- “Automatic Transaxle”, “Current Data”

1. SPORTS MODE SELECT SWITCH TEST:

With ignition key “ON” and engine off, select “Sports Mode Select Switch.”

Check the operation of the select switch when the shift lever is moved from “D” to “Sports Mode” and back.

SELECT	NORMAL MODE	SPORTS MODE
Sports Mode Select Switch	OFF	ON



2. SPORTS MODE UPSHIFT & DOWNSHIFT SWITCH TEST:

Select:

- “Sports Mode Up Switch”, F1 “FIX”
- “Sports Mode Down Switch.”, F1 “FIX”
- F2, “SCRN” two times (this will isolate top two data to provide a quick refresh rate)

Shift the Sports Mode lever to the upshift and downshift positions and check the operation of the switches:

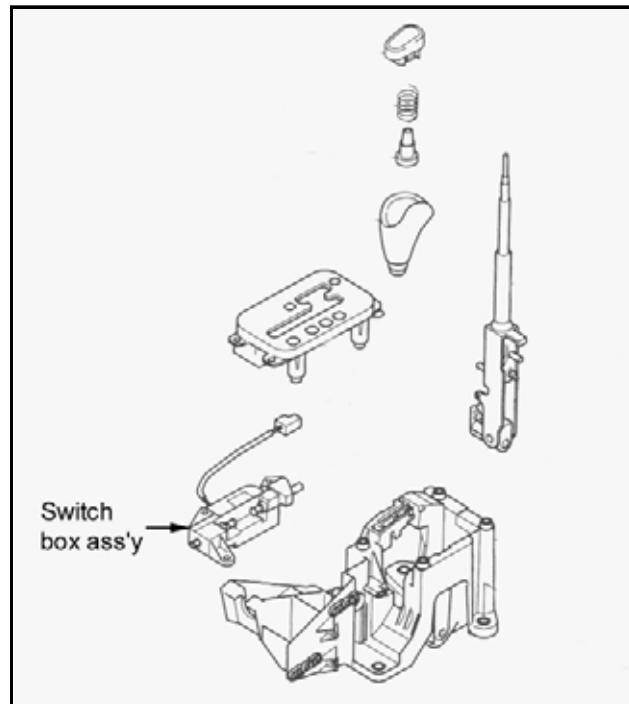


SELECT	WHEN UPSHIFTING	WHEN DOWNSHIFTING
Sports Mode Up Switch	ON for about 1 second	OFF
Sports Mode Down Switch	OFF	ON for about 1 second

SWITCH BOX REPLACEMENT (2001~SANTA FE & XG, 2002~ SONATA & 2003~TIBURON):

If the switches do not operate as shown above, proceed as follows:

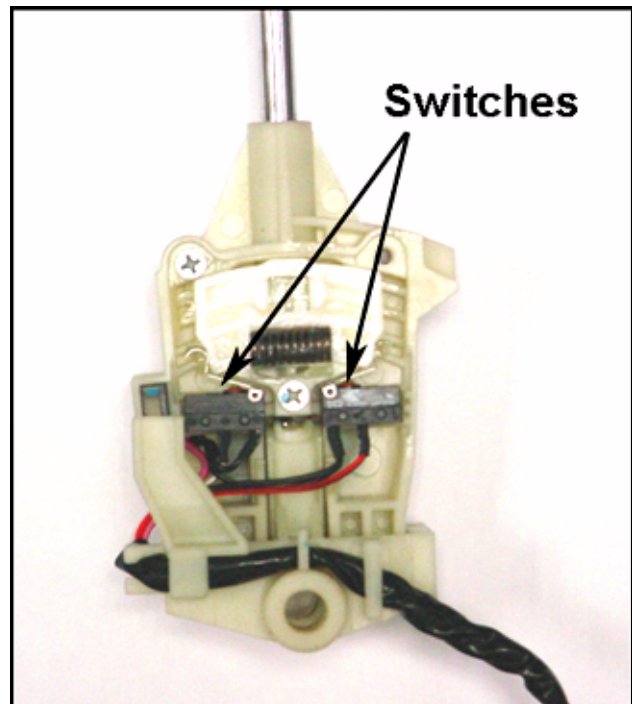
1. Refer to the appropriate shop manual, “Body” section and remove the center console.
2. Check the wiring visually for an open or short circuit. Check related connectors for pins that are bent or not fully inserted. If ok, go to step 3.
3. Refer to the appropriate shop manual, “Automatic Transaxle Control System” section and replace the switch box assembly.





GEAR SHIFT LEVER REPLACEMENT (2006~ SONATA & AZERA, 2007~ SANTA FE):

- Refer to the appropriate shop manual, "Body" section, to remove the center console.
- Check the wiring visually for an open or short circuit. Check related connectors for pins that are bent or not fully inserted. If ok, go to step 3.
- Refer to the appropriate shop manual, "Automatic Transaxle Control System" section and replace the gear shift lever assembly.



PARTS INFORMATION:

MODEL	PART NUMBER	PART NAME
2002~05 Sonata 2001~06 Santa Fe 2001~05 XG300/350	46740-39000	Switch box assy
2003~ Tiburon	46740-2C100	
2005~ Tucson	46780-2E000	
2006~ Sonata 2006~ Azera	46710-3K000	Gear shift lever
2007~ Santa Fe		

WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART NO.	DEFECT CODE	
					NATURE	CAUSE
2002~05 Sonata 2001-06 Santa Fe 2001-05 XG300/350	46740R00	Switch box assy	0.6	46740-39000	N66	C31
2003~ Tiburon				46740-2C100		
2005~ Tucson				46780-2E000		
2006~ Sonata 2006~ Azera	43721R00	Gear shift lever assy	0.6	46710-3K000	N94	C15
			0.7			

N66: Electrical malfunction

N94: Inoperative

C15: Poor contact & short, open circuit

C31: Sticking, seized