



# HYUNDAI Technical Service Bulletin

Group	ELECTRICAL
Number	07-01-001
Date	JANUARY, 2007
Model	TUCSON

Subject  
**TUCSON**  
**DRIVER AIR BAG COVER MODULE REPLACEMENT**  
**(CAMPAIGN 079)**

CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
	<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input type="checkbox"/> SALES MANAGER

**IMPORTANT: DEALERS MUST PERFORM THIS CAMPAIGN ON ALL AFFECTED VEHICLES PRIOR TO CUSTOMER RETAIL DELIVERY AND WHENEVER AN AFFECTED VEHICLE IS IN THE SHOP FOR ANY MAINTENANCE OR REPAIR.**

**IMPORTANT: WHEN A VEHICLE ARRIVES AT THE SERVICE DEPARTMENT, ACCESS HYUNDAI MOTOR AMERICA'S "WARRANTY VEHICLE INFORMATION" SCREEN VIA DCS INTERACTIVE OR DCS ON-LINE TO IDENTIFY OPEN CAMPAIGNS.**

**DESCRIPTION:**

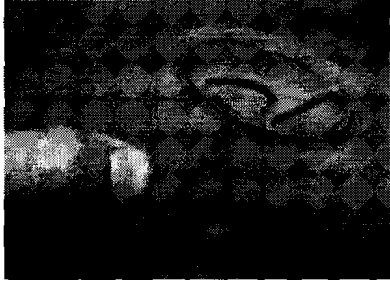

As of November 2, 2006 production, all Tucson vehicles have been equipped with a new design Driver Air Bag (DAB) cover module.

All previous TUCSON driver air bag (DAB) cover modules must be replaced.

**VEHICLES AFFECTED:**

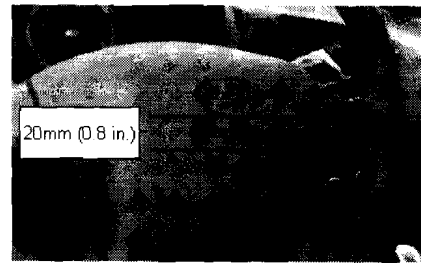
- Model: Tucson (JM)
- Affected vehicle production date range: All produced through November 1, 2006
- Affected VIN range: Produced through KM8JM12BX7U575346

## PARTS REQUIRED

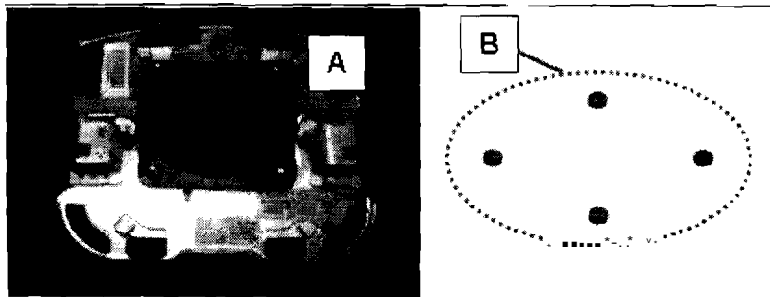
PART NAME Driver Air Bag (DAB) Cover Module	PART NUMBER	
	PREVIOUS	NEW
	"I" shaped depression when pressed	"T" shaped depression when pressed
		
	56900-2E100DD	56960-2E000DDQQH
	56900-2E100LM	56960-2E000LMQQH
	56900-2E100U7	56960-2E000U7QQH
	56900-2E100WK	56960-2E000WKQQH
	56900-2E100Z9	56960-2E000Z9QQH

### Important notes to remember before performing any work

- Prior to performing any work, consult the Hyundai Warranty Database to determine if the vehicle is in the affected range and whether or not the procedure has already been performed.
- To physically distinguish the 'NEW' DAB from the 'PREVIOUS' DAB, press the cover with both thumbs as shown above at a point approximately 20mm (0.8 inch) below the 'H' logo. Previous DAB module covers will show an "I" shaped depression at the invisible tear seam, while the new DAB module will show a 'T' shaped depression. Please refer to the photos above and to the right.



- The new DAB cover module includes the black plastic air bag inflator opening shipping protection cover (A) and four inflator mounting nuts (B) only. It does not include the inflator. Therefore, the existing inflator must be re-installed onto the new DAB cover module. Refer to the following Service Procedure.





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## SERVICE PROCEDURE

1. Remove the ignition key from the ignition cylinder.
2. Disconnect the negative (-) terminal of the battery. Wait at least 30 seconds after disconnecting the battery cable before proceeding.
3. Using a small flat blade screwdriver, remove the (2) covers from the left and right sides of the steering wheel. Take care not to scratch the covers and any of the surrounding trim.



4. Using a T40 Torx driver, remove the (2) driver air bag module mounting bolts.  
**Re-assembly tightening torque: 6 - 8 lb.ft.**



5. Release the squib wiring harness from the harness retaining clip.
  - a. Using a small flat blade screwdriver, release the locking tab of the squib connectors and remove the connectors from the inflator.



**Note that the connectors are both color coded and uniquely indexed to prevent cross-installation.**

- Using an 8mm socket and driver, remove the (4) air bag inflator mounting nuts from the existing air bag module.

- Remove the existing air bag inflator and save it for transfer to the new air bag cover module.

**NOTE: The existing air bag cover module must be scrapped. See page 6 for directions.**

- Remove the black plastic air bag inflator opening shipping protection cover from the new DAB cover module and discard it.

- Align the index hole on the inflator to the indexing mark on the new air bag cover module and attach it using the new supplied mounting nuts.

**Re-assembly tightening torque: 5 - 7 lb.ft.**

**Note that the inflator can only be installed in the correct orientation.**

- To identify that the air bag cover module has been replaced, and that the inflator mounting nuts have the correct tightening torque, mark all four inflator mounting nuts with a paint pen.





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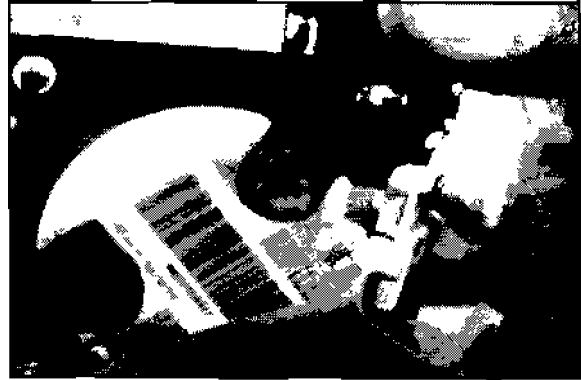
07-01-00■

11. Reconnect the two squib connectors and secure the squib wiring harness in the retaining clip. Install the new air bag module to the steering wheel in the reverse order of removal. Torque the air bag module mounting bolts to **6 - 8 lb.ft.**

### Important notes to remember during installation

1. Re-connect the green squib connector to the matching green socket and the purple squib connector to the matching purple socket. Both squib connectors are color coded and uniquely indexed to prevent cross-installation.
2. Engage the secondary pin lock after you have completely inserted the connector into the appropriate connector housing. A "click" sound should be heard.
12. After all electrical connections have been made and the new DAB module has been installed, re-connect the negative (-) terminal of the battery.
13. Turn the ignition ON and confirm that the instrument panel air bag warning light turns OFF after approximately 6 seconds.

If the air bag warning light stays ON, erase any related trouble code using a scan tool. Then, re-check to confirm that the air bag warning light turns off. If it *does not*, the SRS system must be diagnosed by following the procedures in the appropriate Tucson shop manual.



The original Driver Air Bag cover module must be destroyed and scrapped:

To prevent reuse of the Driver Air Bag cover module that has been removed from the vehicle, drill a hole through the cover module as shown below:



Drill 1/2 inch diameter hole just below  
Hyundai "H" logo.

**PROCEDURE COMPLETE**

**WARRANT INFORMATION:**

OP CODE	OP NAME	OP TIME
61B046R0	Driver air bag module replacement	0.2 M/H

**NOTE: Submit claim using the Campaign Claim Screen**



GROUP  
Campaign

MODEL  
Sorento

NUMBER  
068

DATE  
January 2007

## TECHNICAL SERVICE BULLETIN

**SUBJECT:**

**SERVICE CAMPAIGN: SORENTO ESC REPROGRAM**

This bulletin provides information relating to a service campaign to reprogram the ECU stability control software for 2007MY Sorento vehicles manufactured between June 15 and 21, 2006.

During recent National Highway Transportation Safety Administration New Car Assessment Program (NCAP) testing, a Sorento manufactured between June 15, 2006 and June 21, 2006 unexpectedly tipped up during a high speed maneuver. Kia's subsequent investigation determined that Sorento vehicles manufactured during the first week of production for the 2007 model year and headed for the U.S. had a European version of the stability control software installed in the Electronic Control Unit (ECU). Although the European version is safe for customer use, the U.S. version was developed to ensure that there was no tip up during the 50 mph Fishhook Manuever involved in NCAP testing. The U.S. version of such software will be programmed into the 1,467 affected Sorentos to make them consistent with all other 2007 model year Sorentos in the U.S. This will ensure that all 2007 Sorento's in the U.S. will be covered by NHTSA's highest NCAP rating.

The vehicles subject to this campaign are in full compliance with all U.S. Federal Motor Vehicle Safety Standards.



**This TSB will summarize the reflash process for the Bosch ESC control module, removing the TPMS fuse is required prior to the reflash.**

**File Under: Campaign**

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

**SUBJECT:****SERVICE CAMPAIGN SORENTO ESC REPROGRAM**

## ESC ROM ID Information Table:

ABS/ESP Assembly	Part Number	Current ROM ID	New ROM ID
	58910 3E500	60067000000120000000000000	61377000000207000000000000

**Relating to Reprogramming Procedures**

A fully charged battery is necessary before programming can take place, DO NOT connect a battery charger to the vehicle during reprogramming. Make sure the blower motor is OFF during programming.

All Re-programming must be done with the ignition key in the "ON" position.

Be careful not to disconnect any cables connected to the vehicle or Hi Scan Pro during the reprogramming procedure.

DO NOT start the engine during reprogramming.

DO NOT turn the ignition key "OFF" or interrupt the power supply during reprogramming.

When the reprogramming is completed, turn the ignition key "OFF" and wait several seconds before starting the engine.

GDS software version must be N-K-1-1-1. 11 or later.

Manual Reprogramming is not available for this specific reflash

If the ESC control unit reprogramming is interrupted during ESC control unit software data download, the ESC control unit must be replaced.



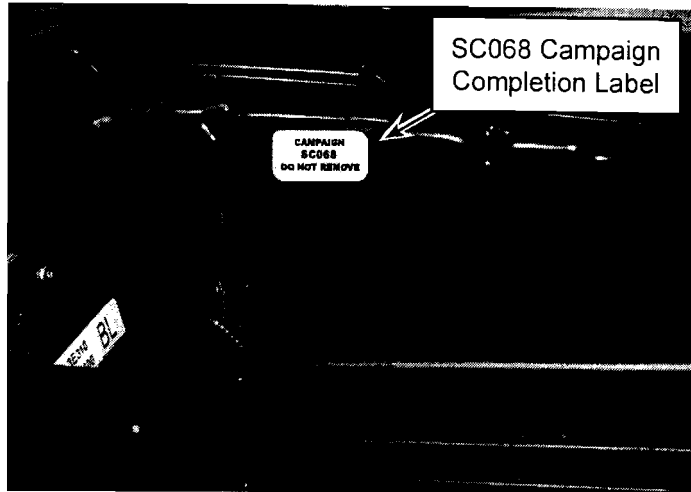
**SUBJECT:**

**SERVICE CAMPAIGN: SORENTO ESC REPROGRAM**

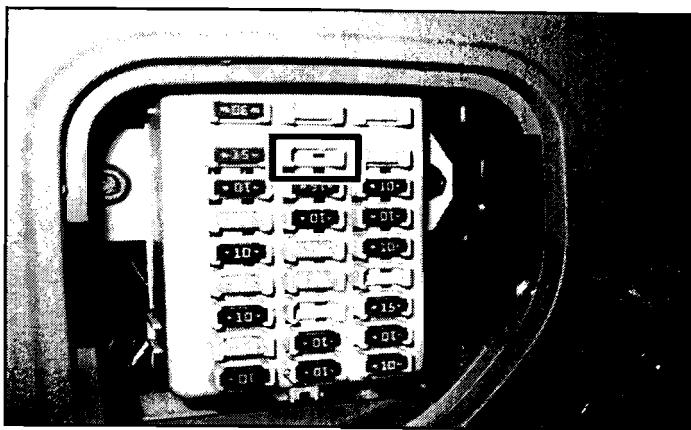
**Inspection Procedure:**

1. Open hood and check for SC068 Campaign completion label on the panel above the under hood fuse box.

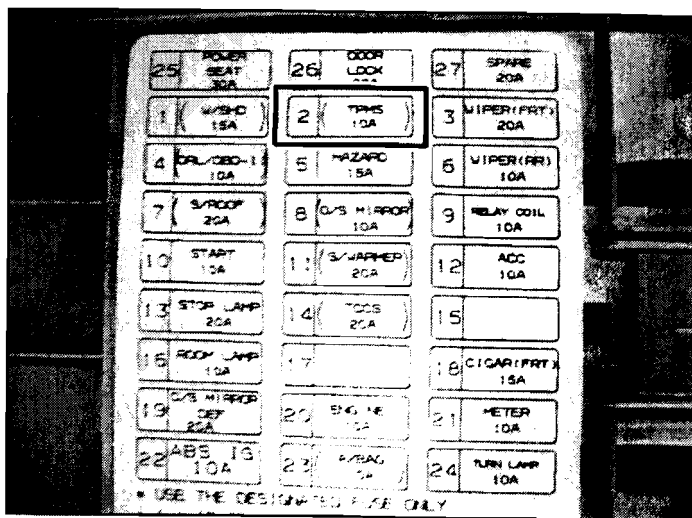
If label exists, NO FURTHER ACTION IS REQUIRED.  
 If label does not exist, continue to step 2.



2. Locate the interior fuse box on the driver's side kick-panel. Open the access panel.



3. Remove the TPMS fuse.



SUBJECT:

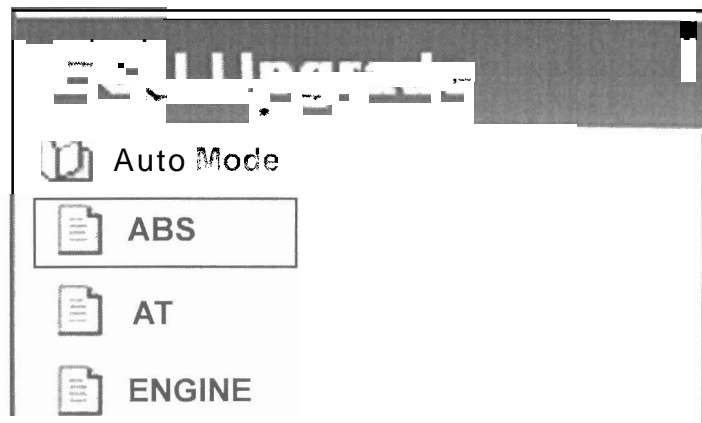
# SERVICE CAMPAIGN: SORENTO ESC REPROGRAM

4. Install GDS and follow the On-screen instructions.

- a) Connect the 16-pin OBD-II connector located under the dash.
- b) USB cable must be connected to the Vehicle Communication Interface (VCI) and to the GDS laptop.
- c) Select 'VIN'
- d) Select 'VIN Auto Detect'
- e) Select 'ECU Upgrade'



5. Select 'ABS'. Display will show available ESC reflash related to VIN read with VCI



6. The current ROM ID will be checked and compared against the latest ROM available.



Note: If the latest software is installed, **no** further action **is** required.

The ECU Upgrade has already been **completed!**

SUBJECT:

ICE CA

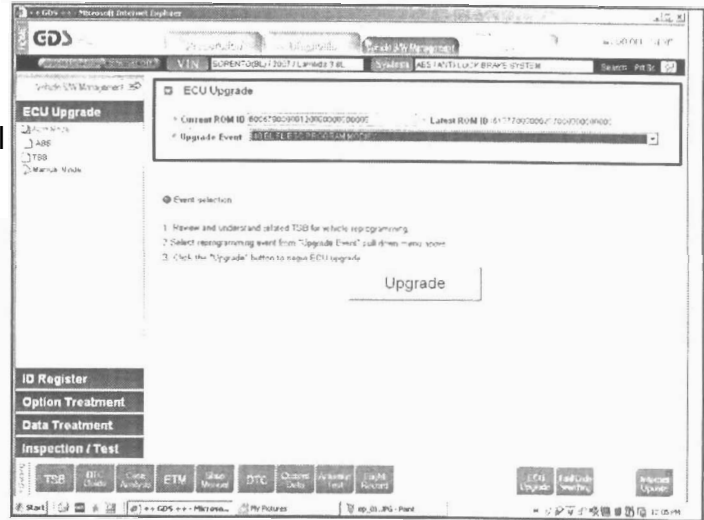
AIGN: S

# SORENTO ESC REPROGRAM

7. If the ROM ID is: 60067000000120000000000000, the ESC software must be upgraded. Remove the TPMS fuse before attempting to reflash the ESC control module.

**WARNING**

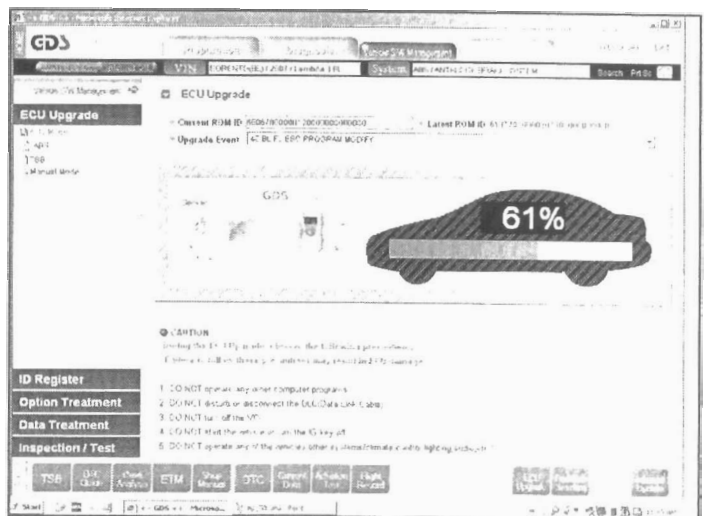
**Failure to remove the TPMS fuse prior to reprogramming will cause the ESC module to error during the reflash and may require the replacement of the HECU.**



8. Select upgrade event: 'BL FL ESC PROGRAM MODIFY'.



**Note: Reprogramming will take approximately 5-7 minutes.**



**SUBJECT**

SERVICE CAMPAIGN: SORENTO ESC REPROGRAM

9. Reflash has completed. Turn ignition key OFF for 20 seconds.

- a) Install the TPMS fuse and cover.
- b) Turn ignition key ON (TPMS display illuminates for duration of self-test) and then OFF.
- c) Check and clear all related diagnostic trouble codes.
- d) Remove GDS and related equipment from the vehicle.

**The ECU upgrade has successfully finished.**  
ROMID: 61377000000207000000000000

10 Install SC068 campaign completion label on the inner fender panel above the underhood fuse box.



SUBJECT:

SERVICE C

CAMPAIGN: SORENTO ESC REPROGRAM

**Affected Production Range:**

2007 Sorento vehicles produced between June 15 (Job 1) - June 21, 2006.

**PARTS INFORMATION:**

Description	Part Number
Campaign Completion Label	UV070 SC068

**WARRANTY CLAIM INFORMATION:**

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty.
R	58910 3E500	0	N50	C40	ESC Reprogramming	070002R0	0 3	N/A	0

To improve customer satisfaction always remember to refer to the Warranty Coverage Validations Inquiry Screen (Select 3) on your Kia Standard System (KSS) Dealer Main Menu for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.