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Orlando Training Center Open for Business

The screenshot displays the TACS web application. At the top, there is a header with the Hyundai logo and 'TACS Training & Certification System'. Below the header is a navigation bar with icons for Home, Classroom, Web-Based, Quizzes, Certification, Reports, and Tools. A 'Calendar' section is visible, showing a monthly view for October. The calendar has filters for 'SERVICE', 'SOUTHERN', and 'ALL FACILITIES'. A pop-up window shows details for a class on October 1st, including the class ID '019543', title 'SPECIAL SERVICE TOOLS 3', location 'ORLANDO TRAINING CENTER', dates 'TUE OCT 1 2013 - THU OCT 3 2013', and 'SEATS AVAILABLE: 1'. Other class entries are visible on the calendar grid.

Hyundai Motor America opened its new Orlando Training Center on October 1st. The Orlando Training Center replaces the center in Miami. The new location offers more centralized access for southeastern dealerships. As with our recently remodeled training centers in Fredericksburg, VA and Shrewsbury, MA, Orlando features the resources to allow instruction in the actual garage area of the facility. There is also a conventional classroom. The shop features four lifts and all the other necessary tooling.



continued on page 2

Orlando Training Center Open for Business

continued from page 1

The Orlando location is conveniently located near the airport and local hotels, adjacent to the intersection of Florida's toll roads 528 and 254. Also close by is an indoor go-kart track where you can buy a few laps to relax after class.



Technicians in the Southern Region served by the new Orlando facility should log on to TACS and review the class offerings. Discuss your career plans with your Service Manager and sign up for the appropriate instructor-led classes. Make sure you take the on-line pre-course for any scheduled class before coming to the training center for classroom instruction.

PDI Forms Updated 9/12/2013

Pre Delivery Inspection forms for the Equus, Sonata, Elantra Sedan/Coupe and Santa Fe Sport have been modified to revise the Special Items section. Make sure that the date in the upper right of your form now reads 9/12/2013 for these models.

Please access the new forms online in the "Pre-Delivery Inspection Forms" section at www.Hyundai-TechInfo.com and review the new Special Items to be inspected during PDI.

HYUNDAI Pre-Delivery Inspection EQUUS
 EQUUS 9/12/2013 PAGE 1 OF 4
 VEHICLE IDENTIFICATION NUMBER: _____
 DEALER CODE: _____ STOCK NUMBER: _____ REPAIR ORDER NUMBER: _____

INSPECTION ITEMS (cont.)
 EQUUS 9/12/2013 PAGE 2 OF 4

C. SPECIAL ITEMS CHECK

- Confirm that there are no left over protective plastic wrap on wood finish.
- Rear combination lamp and quarter panel area interference check
- Clean off any adhesive residue remaining after removing paint protection film from vehicle
- Pay special attention during the test drive for drift / pull. If case 1 test does not pass or is marginal, repair the vehicle according to the latest alignment TSB. Staple the completed Vehicle Tracking Data Sheet to this PDI form.
- Confirm that the center console cup holder cover opens and closes correctly.
- Verify proper back up camera screen operation

D. TEST DRIVE
 Road test vehicle:
 • 5 to 10 miles
 • 10+ minutes
 • Exceed 45 MPH

Starting Odometer _____
Ending Odometer _____

Engine Operation / Performance
 Idle quality Acceleration Cruising Brake Operation Pull / vibration / noise Parking brake

Transmission
 Upshift / downshift kick down Vibration / noise Pull / drift
 Sport Mode function - ATM Steering wheel straight / centered Pull / drift
 ATM adaptive learning (refer to TSB 12-AT-017) Drive mode selection *

Steering / Handling
 Wind Powertrain Squeaks / Rattles

Confirm following during test drive
 HVAC Cruise / Smart Cruise control
 Instrument panel lights, warning lights, gauges Lane Departure Warning System
 Power windows / door locks Sunroof / tilt / open / close
 Windshield wipers / washers (nozzle aim) Abnormal noises / vibrations
 Auto hold

At end of test, if equipped, check the following
 Confirm NAV system acquires satellites, displays route Inspect / adjust compass per manual
 Bluetooth connection Steering wheel switches operation
 Check voice command Check soda can in cool box *
 Audio system operation (AM / FM / XM / CD / USB drive)

HYUNDAI Pre-Delivery Inspection Santa Fe Sport
 SANTA FE SPORT 9/12/2013 PAGE 1 OF 3
 VEHICLE IDENTIFICATION NUMBER: _____
 DEALER CODE: _____ STOCK NUMBER: _____ REPAIR ORDER NUMBER: _____

INSPECTION ITEMS (cont.)
 SANTA FE SPORT 9/12/2013 PAGE 2 OF 3

D. TEST DRIVE (Cont.)

Starting Odometer _____
Ending Odometer _____

Confirm following during test drive
 Instrument panel lights, warning lights, gauges Cruise control
 Climate control Heated steering wheel Abnormal noises / vibrations
 Power windows / door locks Windshield wipers / front washers (nozzle aim) Rear window wiper / rear washer
 Audio system operation (AM / FM / XM / CD / USB drive) Confirm NAV system acquires satellites, displays route

At end of test, if equipped, check the following
 Seat heaters "Smart Key" operation 2nd row seat operation Bluetooth connection Inspect / adjust compass per manual
 Steering wheel switches operation Check voice command

E. POST DRIVE CHECKS
 Connect GDS Scanner, select ALL OF THE SYSTEMS and scan for codes. Confirm proper operation if any codes are found
 Clear all codes when complete
 Start the vehicle and clear all codes from the Blue Link server by using the "Vehicle Report" command and allow the vehicle to idle 3 minutes after all existing vehicle level DTC codes are cleared.
 Conduct TPMS Scan to check communication to all 4 wheel sensors

Confirm proper operation / fluid levels:
 Hood and latches
 Radiator coolant reservoir above minimum mark
 Coolant hoses, clamps and connections
 Brake fluid level above minimum level
 Check steering system
 Engine off. Engine oil between upper / lower mark

F. UNDER VEHICLE

Confirm following items
 No engine oil or coolant leaks No transfer case fluid leaks
 No damage / leaks to fuel system components, tank, hoses, lines Check steering system
 No damage / leaks to brake system components, hoses and lines After waiting 15 minutes after the "Vehicle Report" command, confirm that Blue Link has been cleared by viewing the Telematics information in HyundaiTechInfo.com
 No rear differential fluid leaks

NOTE: ANY ITEMS REQUIRING CORRECTION

Bright Idea Suggestion Program Winners

Here are the winners of our Dealer Technician Bright Idea Suggestion Program!

Many valuable ideas were submitted, however, the winning ideas stood out against those insightful suggestions.

NATIONAL WINNERS:

Hyundai STAR Awards	\$1,000:..... S. Bennett, Quirk Hyundai of Bangor (ME002)
Prepaid MasterCard®	\$500:..... A. Ellinas, Southtowne Hyundai of Newnan (GA035)
Cash Awards	\$300:..... J. Kobeszko, Hackettstown Hyundai (NJ050)

WINNING SUGGESTION:

“On some vehicles the outbound or inbound CV boots are only available as part of the axle and on others they can be bought as a kit. I would like to see the kits available for all vehicles. This will lower the cost of the repair and with the kits being smaller than the whole axle, shipping will be less and allow more to be stored in the parts department.”

REGIONAL WINNERS: STAR Power Points

■ CENTRAL

- ▶ **20,000 points: A. Trimble**
Gates Hyundai (KY017)

■ EASTERN

- ▶ **20,000 points: S. Bennett**
Quirk Hyundai of Bangor (ME002)
- ▶ **10,000 points: J. Kobeszko**
Hackettstown Hyundai (NJ050)
- ▶ **5,000 points: L. Bland**
Sport Hyundai (NJ038)
- ▶ **5,000 points: S. Bennett**
Quirk Hyundai of Bangor (ME002)
- ▶ **5,000 points: T. Bradley**
Fred Beans Hyundai (PA039)

■ SOUTH CENTRAL

- ▶ **20,000 points: J. Endicott**
Alan Vines Hyundai (TN028)
- ▶ **10,000 points: K. Reece**
Wilson County Hyundai, Inc. (TN045)

■ SOUTHERN

- ▶ **20,000 points: A. Ellinas**
Southtowne Hyundai of Newnan (GA035)
- ▶ **10,000 points: M. Bowman**
Ideal Hyundai (MD013)

■ WESTERN

- ▶ **20,000 points: B. Chawick**
Central Valley Hyundai (CA307)
- ▶ **10,000 points: M. Carrillo**
Murdock Hyundai Cache Valley LLC (UT014)
- ▶ **5,000 points: R. Lopez**
Carey Hyundai (WA046)

TechNet *Tips*

Logging into HTSS

From time to time, we receive comments regarding the HTSS login procedure. To be sure we are all on the same page, the HTSS login requires your TACS ID number (first initial, last name and last four of your social security number), the vehicle mileage and the RO number. All this information is required before you can view any links beyond open campaigns.

clicking out of HTSS if the information is already familiar to you.

At minimum, HTSS requires that you close the pop up to continue with your own diagnosis uninterrupted further by the HTSS application. One click and you are on your way. On the other hand, links that are continually updated offer time-saving tips and streamlined searching for repair procedures for the condition detected by your GDS.

HTSS represents only one aspect of the service history on any given vehicle. Nonetheless, it can provide key data used for subsequent diagnoses. Therefore, the mileage is critical. Also, the RO allows for in-depth examination about the fix as data is compiled and reviewed. The RO information can

Vehicle Info						GDS Case NO.
VIN	Model	Year	Engine	Trans	Production Date	
Retail Date	Retail Dealer	Service Dealer	RO #	RO Mileage	User	

Open Campaigns (Click the button(s) to view the campaign information)

No campaign

DTC, Symptom Contents

	P0139	P2626	-	-	-	Choose Symptom
--	-------	-------	---	---	---	----------------

The information required was determined based on requirements for enhancing our vehicles and our Service Information. Your comments have led us to add rollovers revealing the contents within a link. This affords you the choice of logging in or

even be used to modify and adjust the service information that is linked to a specific condition in HTSS. Your input on the RO is a significant source of repair data, so giving the RO number when you log in actually helps future diagnosis and repair.

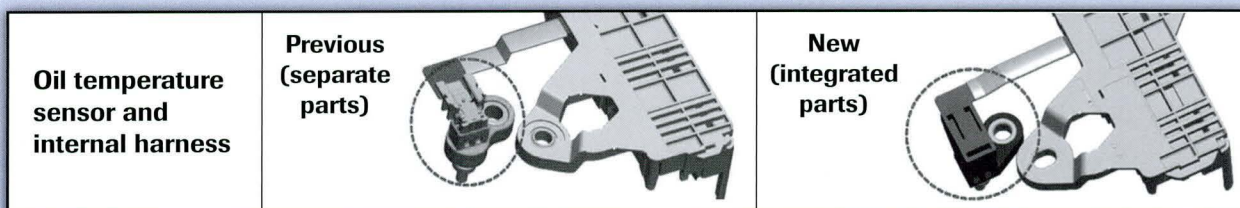
Automatic Transaxle (6-Speed) Oil Temperature Sensor DTC P0711, P0712 & P0713

Do not replace the transaxle for the following DTC listed below. Instead, follow the repair procedure listed in TSB 13-AT-012-1 and replace the related part.

P0711 Transmission Fluid Temperature Sensor – Rationality Check

P0712 Transmission Fluid Temperature Sensor - Circuit Low Input

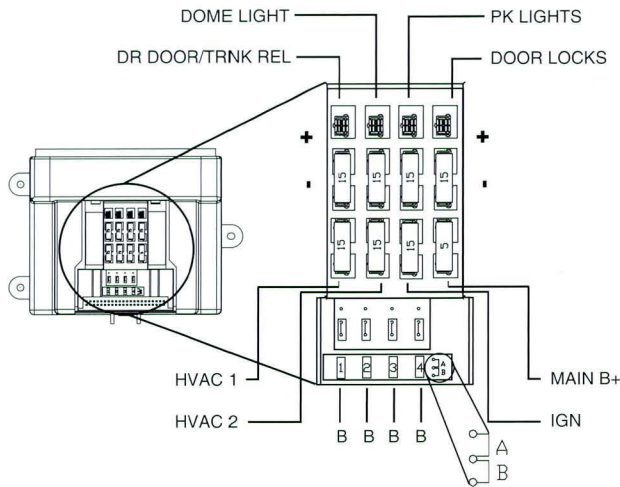
P0713 Transmission Fluid Temperature Sensor - Circuit High Input



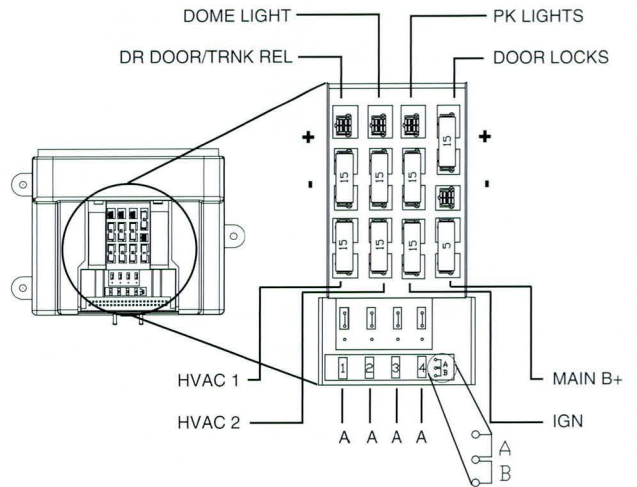
The oil temperature sensor has been integrated with the internal harness from early March, 2013. The oil temperature sensor is not available separately for these models: Tucson (LM), Santa Fe (CM/AN/NC), Sonata (YF), Elantra (UD/MD/GD/JK), Accent (RB), Azera (TG/HG), Veloster Turbo (FS). See TSB 13-AT-012-1 for parts listing.

Hyundai Remote Engine Start Fuse & Jumper Placement Reference Drawings

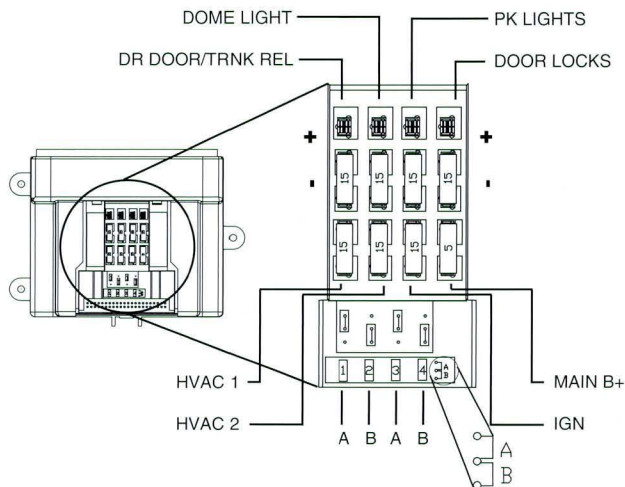
2010-2012 Santa Fe - Kit Part #2B056 ADU01



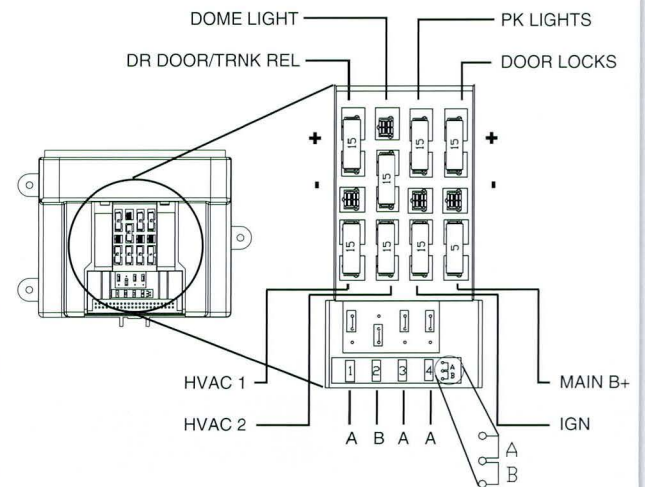
2013~ Santa Fe - Kit Part #4Z056 ADU01



2010-2013 Tucson - Kit Part #2S056 ADU00
2011-2013 Sonata - Kit Part #3S056 ADU02



2011-2013 Elantra - Kit Part #3X056 ADU00
2012-2013 Veloster - Kit Part #2V056 ADU00



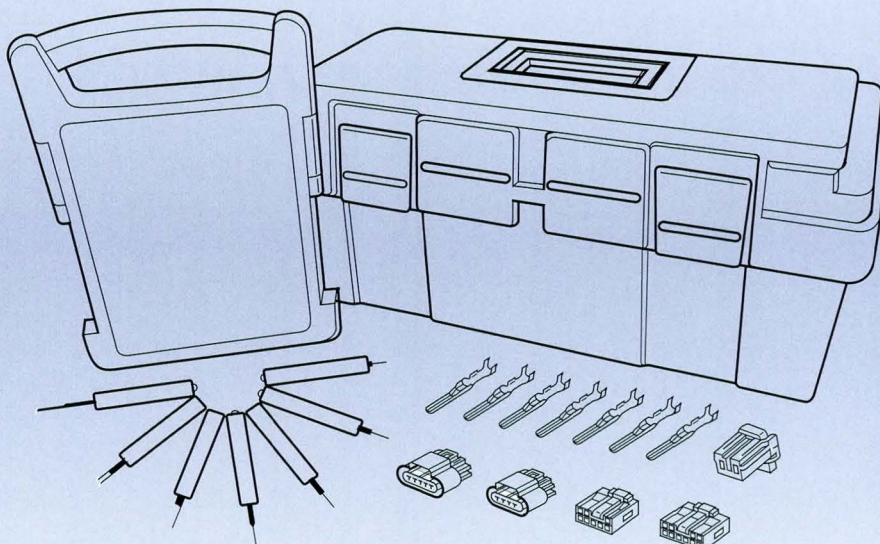


Special Service Tool Spotlight

GOKHN002 Wire Repair Kit 2

Application: Universal

NOTE: This special service tool is designed to replace damaged individual pins within a harness connector on Hyundai vehicles. Please refer to the Wire Repair Kit 2 User's Guide Manual (CD included) for proper usage and procedures.



Replenishment items for this Wire Repair Kit can be purchased by calling Hyundai Special Service Tool Customer Service at 866-539-4248 (Option #1).

Fix-It-Right

ECM UPDATE – P2096 AND/OR MISFIRE DTC(s)

DESCRIPTION:

This article provides an ECM update to revise the logic for the following DTC(s):

- 2011-2012MY
 - P2096: Post Catalyst Fuel Trim System too Lean(Bank1)
 - P0301/2/3/4: Cylinder-1/2/3/4 Misfire detected
- 2013MY
 - P2096: Post Catalyst Fuel Trim System too Lean(Bank1)

APPLICABLE VEHICLES:

2011-2013 ELANTRA (MD/UD)

NOTE: There are no vehicle performance issues associated with this update.

GDS Information:

EVENT #	DESCRIPTION
306	"306. UD/MD 1.8 P2096 DTC LOGIC IMPROVEMENT"

WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Elantra (MD/UD)	39110F8Q	ECM Upgrade	0.3 M/H	(See NOTE)	N69	C40

NOTE: Use the applicable ECM P/N listed in the ECM ROM ID Information Table from the following pages.

ECM ROM ID INFORMATION TABLE:

Verify the ECM ROM ID before updating the vehicle's software. Refer to the table below.

Model	MY	Emission	ECM P/N	T/M	IMMO	ROM ID	
						Previous	New
ELANTRA 1.8L (MD/UD)	11MY	SULEV	39101 -2EMA0 (MD/UD)	AT	YES (Start- Stop Button)	MD1SP1MS294B MD1SP1MS294C MD1SP1MS294D MD1SP1MS294E MD1SP1MS296A	MD1SP1MF2E3A
			39103 -2EMA0 (MD/UD)		NO (Key Start)	MD1SP1NS294B MD1SP1NS294C MD1SP1NS294D MD1SP1NS294E MD1SP1NS296A	MD1SP1NF2E3A
		ULEV	AT	39101 -2EMB0 (MD/UD)	YES (Start- Stop Button)	MD1UP1MS294B MD1UP1MS294C MD1UP1MS294D MD1UP1MS294E MD1UP1MS296A	MD1UP1MF2E3A
				39105 -2EMB0 (MD/UD)		MD1UP1MS294B MD1UP1MS294C MD1UP1MS294D MD1UP1MS294E MD1UP1MS296A	
			MT	AT	NO (Key Start)	MD1UP1NS294B MD1UP1NS294C MD1UP1NS294D MD1UP1NS294E MD1UP1NS296A	MD1UP1NF2E3A
						39107 -2EMB0 (MD/UD)	
	12MY	SULEV	AT	39101 -2EMA2 (MD/UD)	YES (Start- Stop Button)	MD2SP1MS2B0A MD2SP1MS2B4A MD2SP1MS2B4B MD2SP1MS2B4C MD2SP1MS2B7A	MD2SP1MF2E3A
				39101 -2EMN2 (MD)		MD2SP1MS2B7A	
			MT	NO (Key Start)	39103 -2EMA2 (MD/UD)	MD2SP1NS2B0A MD2SP1NS2B4A MD2SP1NS2B4B MD2SP1NS2B4C MD2SP1NS2B7A	MD2SP1NF2E3A
					39103 -2EMN2 (MD)	MD2SP1NS2B7A	

continued on page 8

ECM UPDATE – P2096 AND/OR MISFIRE DTC(s)

continued from page 7

ECM ROM ID INFORMATION TABLE: Continued

Model	MY	Emission	ECM P/N	T/M	IMMO	ROM ID		
						Previous	New	
ELANTRA 1.8L (MD/UD)	12MY	ULEV	39101-2EMB2 (MD/UD)	AT	YES (Start- Stop Button)	MD2UP1MS2B0A MD2UP1MS2B4A MD2UP1MS2B4B MD2UP1MS2B4C MD2UP1MS2B7A	MD2UP1MF2E3A	
			39101-2EMP2 (MD)			MD2UP1MS2B7A		
			39103-2EMB2 (MD/UD)	AT	NO (Key Start)	MD2UP1NS2B0A MD2UP1NS2B4A MD2UP1NS2B4B MD2UP1NS2B4C MD2UP1NS2B7A	MD2UP1NF2E3A	
			39103-2EMP2 (MD)			MD2UP1NS2B7A		
			39107-2EMB2 (MD/UD)	MT	MD2UP1NS2B0A MD2UP1NS2B4A MD2UP1NS2B4B MD2UP1NS2B4C MD2UP1NS2B7A			
	13MY	SULEV	39101-2EMA3 (UD)	AT	YES (Start- Stop Button)	MD3SP1MS2D2A MD3SP1MS2D2B MD3SP1MS2D8A	MD3SP1MS2E3A	
			39101-2EMN3 (MD)			MD3SP1MS2D2A MD3SP1MS2D2B MD3SP1MS2D8A		
			39103-2EMA3 (UD)			NO (Key Start)	MD3SP1NS2D2A MD3SP1NS2D2B MD3SP1NS2D8A	MD3SP1NS2E3A
			39103-2EMN3 (MD)				MD3SP1NS2D2A MD3SP1NS2D2B MD3SP1NS2D8A	
			ULEV	39101-2EMB3 (UD)	AT	YES (Start- Stop Button)	MD3UP1MS2D2A MD3UP1MS2D2B MD3UP1MS2D8A	MD3UP1MS2E3A
				39101-2EMP3 (MD)			MD3UP1MS2D2A MD3UP1MS2D2B MD3UP1MS2D8A	
			ULEV	39103-2EMB3 (UD)	AT	NO (Key Start)	MD3UP1NS2D2A MD3UP1NS2D2B MD3UP1NS2D8A	MD3UP1NS2E3A
				39103-2EMP3 (MD)			MD3UP1NS2D2A MD3UP1NS2D2B MD3UP1NS2D8A	
		39107-2EMB3 (MD/UD)		MT	MD3UP1NS2D2A MD3UP1NS2D2B MD3UP1NS2D8A			

GENERAL PRECAUTIONS:

- Connect the USB cable between the GDS and the VCI.
- Connect the 16-pin DLC connector from the VCI into the DLC located under the driver's side dash.



NOTE Make sure the battery icon at the bottom right of the GDS laptop shows at least 50%; if not, charge the GDS or attach a battery charger.

- Turn off all lights (Do not leave the headlight switch in auto mode) and all accessories (including heater/air conditioner/fan, audio, heated seats, rear defroster, etc) to ensure the battery will not be discharged during the update.
- Perform the update with the ignition key in the ON position. (Turn the ignition key to ON position or press the Start-Stop Button two times without depressing the brake pedal).
- Do not disconnect any cables connected to the vehicle or the GDS during the update.
- Do not start the engine or turn the ignition switch OFF during the update.

NOTE Confirm your GDS has the most recent version. If not, connect the GDS to an Internet port, open the GDS home page and select "Update". Refer to instructions on hmaservice.com if necessary.

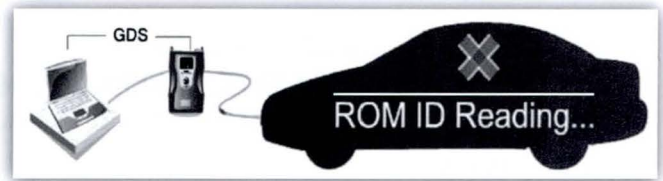
If you encounter GDS related problems, call the GIT Helpline at 888-437-0308.

SERVICE PROCEDURE:

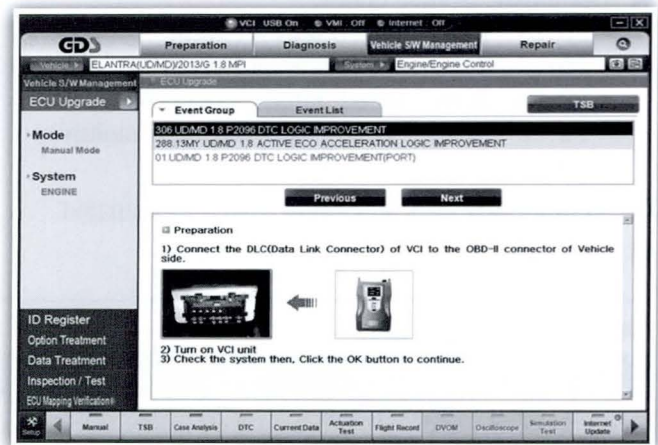
GDS AUTO MODE ECM UPDATE PROCEDURE

1. From the GDS home page, select ECU Upgrade. If necessary, select the VIN.
2. Select **Engine** as the system and then select **OK**.
3. Select **Auto Mode** and then select **Next**.
4. From the **System** tab, select **Engine** and then select **OK**. The GDS will read the ROM ID. Confirm the ROM is applicable as shown on Page 2-3, "ECM ROM ID Information".

NOTE: Record the ECM ROM ID in case the auto update fails and a manual update is needed.



5. Update event "306. UD/MD 1.8 P2096 DTC LOGIC IMPROVEMENT" will display. Select **Upgrade**.



6. If the screen indicates "Voltage is OK" (voltage > 12volts), select **OK**. If not, select **CANCEL** and charge the vehicle battery by running the engine for 10 minutes.
7. Updating will occur until 100% is reached on the bar graph. At the prompt, turn the ignition key OFF for 10 seconds, then turn it ON and select **OK**.
8. The GDS will confirm that ECM reprogramming is successfully finished. Select **OK**.
9. If the ECM update was not successful, go to **GDS MANUAL MODE ECM UPDATE PROCEDURE**.
10. Check for DTC in all systems and Erase All DTC that stored due to loss of CAN communication during the ECM Update.
11. Turn **OFF** ignition for 10 seconds then turn **ON** before going to engine start.
12. Start the engine to confirm proper operation.

NOTE: In the event of **AUTO MODE** update failure:

- You must attempt **MANUAL MODE**. Use the **ECM P/N** from the vehicle's ECM label if it is not clear from the **ROM ID Table** as to the correct **ECM P/N** to use for your vehicle.
- Replacing an ECM without carefully documenting that a **MANUAL MODE** update attempt was made may result in claims charged back.

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Fix-It-Right

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

This article supersedes TSB 12-AT-022-1 to add 2013 models.

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"

APPLICABLE VEHICLES:

Model Years	Model
2010	Santa Fe (CM)
2011	Tucson (LM) produced from January 13, 2011
2011	Sonata (YF) produced from August 26, 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) and Santa Fe (AN/NC)

PARTS INFORMATION:

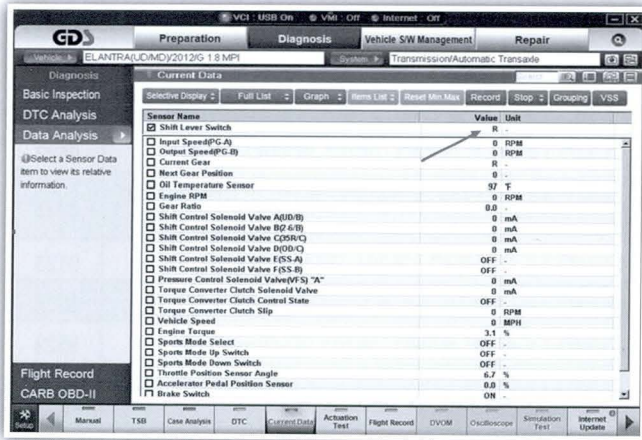
MODEL	APPLIED DATE	PNC CODE	PART NUMBER
2010~ Tucson (LM)	ALL	45956B	42700-3B000
2010~12 Santa Fe (CM)	ALL		42700-3B000
2013~ Santa Fe (AN/NC)	ALL		42700-3B100
2011~ Sonata (YF)	8/26/2010~		42700-26***
2011~ Sonata Turbo (YF)	ALL		42700-26***
2011~ Sonata HEV (YF HEV)	ALL		42700-26000
2011 Azera (TG)	ALL		42700-3B000
2012~ Azera (HG)	ALL		42700-3B100
2011~ Elantra (MD/UD)	ALL		42700-26000
2013~ Elantra Coupe (JK)	ALL		42700-26000
2013~ Elantra GT (GD)	ALL		42700-26000
2012~ Accent (RB)	ALL		42700-26000
2012~ Veloster Turbo	ALL		42700-3B100
2012~ Veloster (FS) DCT	ALL		42700-23000

WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
2010~ Tucson (LM)	42700R00	Replace inhibitor switch	0.4	See Parts Catalog	N69	C15
2010~ Santa Fe (CM)			0.5			
2013~ Santa Fe (AN/NC)			0.6			
2011~ Sonata (YF)			0.4			
2011~ Sonata YF HEV			0.4			
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			
2012~ Accent (RB)			0.5			
2012~ Veloster (FS)			0.4			
All			42700RQ0			

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.



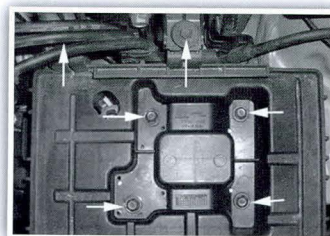
4. If the Shift Lever Switch shows:
 - The correct shift lever position, the wiring **currently** has no open/short circuits. Go to Step 6.
 - Does not show the correct shift lever position, go to Step 5.
5. Visually check the wiring harness between the PCM and inhibitor switch for a damaged wire or 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.
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.

9. If the battery was removed in Step 8:

Remove 2 bolts to the air cleaner.

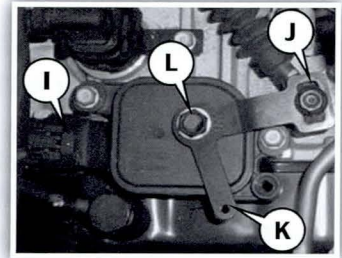
Remove 4 bolts to the battery tray and remove the battery tray.



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

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

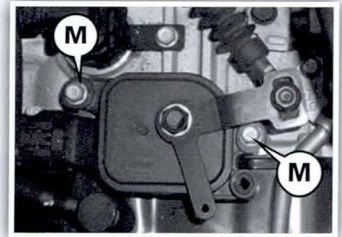
10. Disconnect the inhibitor switch connector (I).



Remove the shift cable mounting nut (J).

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

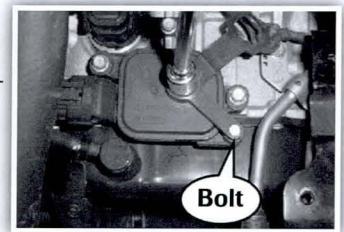
11. Remove 2 mounting bolts (M) and remove the inhibitor switch assembly.



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

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

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



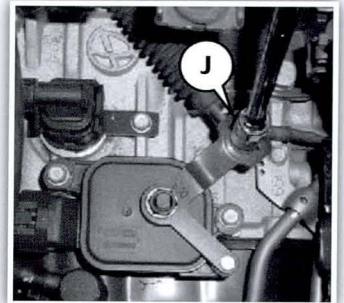
Torque: 13~18 lb-ft (1.8~2.5kgf.m)

CAUTION: 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.

Fix-It-Right

ECM UPDATE – P2096 AND/OR MISFIRE DTC(s)

continued from page 9

GDS AUTO MODE ECM UPDATE PROCEDURE

NOTE: In the event of AUTO MODE update failure:

- **GDS Manual Mode** is intended for recovery of an ECM Update should it begin but then later fail in process in the Auto Mode.
 - **The ECM connectors must be disconnected for 15 minutes to reset its contents then perform this Manual Mode Update.**
 - **Do not force Manual Mode if you get an error in Auto Mode that the vehicle's current ROM ID did not apply.**
 - **It is critical to identify the correct ECM Part Number in the PASSWORD table or the ECM may be permanently damaged. It is recommended to remove ECM and read the part number from the label to confirm.**
1. From the GDS home page, select **ECU Upgrade**. If necessary, select the VIN.
 2. Select **Engine** as the system and then select **OK**.
 3. Select **Manual Mode** and then select **Next**.
 4. From the **System** tab, select **Engine** and then select **OK**.

5. Select update event “**306. UD/MD 1.8 P2096 DTC LOGIC IMPROVEMENT**”, then select **Next**.

6. Be certain to select the exact appropriate ECU of the vehicle, select **Upgrade**, enter corresponding password from the table below and select **OK**.

MENU	P/W
UD/MD 1.8 AT IMMO : 39101-2EMA0	0120
UD/MD 1.8 AT NON IMMO : 39103-2EMA0	0320
UD/MD 1.8 AT/MT IMMO : 39101/39105-2EMB0	0520
UD/MD 1.8 AT/MT NON IMMO : 39103/39107-2EMB0	0720
UD/MD 1.8 AT IMMO : 39101-2EMA2/2EMN2	0122
UD/MD 1.8 AT NON IMMO : 39103-2EMA2/2EMN2	0322
UD/MD 1.8 AT,MT IMMO : 39101-2EMB2/2EMP2	0522
UD/MD 1.8 AT,MT NON IMMO : 39103-2EMB2/2EMP2, 39107-2EMB2	0722
UD/MD 1.8 AT IMMO : 39101-2EMA3/2EMN3	0123
UD/MD 1.8 AT NON IMMO 39103-2EMA3/2EMN3	0323
UD/MD 1.8 AT,MT IMMO : 39101-2EMB3/2EMP3	0523
UD/MD 1.8 AT,MT NON IMMO : 39103-2EMB3/2EMP3, 39107-2EMB3	0723

7. The remaining steps are the same as Steps 6~12 of the Auto Procedure.

TECHNET TIDBIT

Did You Know?

You can diagnose fuel pump pressures with the GDS rather than using a standard pressure gauge. The procedure will be detailed in next month's issue.

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