SB-10053531-8268



GROUP	NUMBER			
FUEL SYSTEM	13-FL-007			
DATE	MODEL(S)			
AUGUST, 2013	SANTA FE SPORT (AN)			

SUBJECT:

ECM UPDATE - DTC P0451 AND P0455



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

2013MY

- P0451: Evaporative Emission System-Pressure Sensor Range/Performance
- P0455: Evaporative Emission System-Leak detected (Large leak)

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

Applicable Vehicles: 2013 SANTA FE SPORT (AN) 2.0/2.4L

GDS Information:

EVENT#	DESCRIPTION
308	"308.DMA 2.0/2.4 P0451 DTC LOGIC IMPROVEMENT"

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part #	Nature Code	Cause Code
SANTA FE SPORT(AN) 2.0/2.4L	39110F8U	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 page.

ECM ROM ID INFORMATION TABLE:

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

Model	MY	ECM P/N	ТМ	Drive	IMMO	ROM ID	
Woder		LOMITAN	1141	Type		Previous	New
741 1		39100-2GAE0	AT	2WD	YES (Start- Stop Button)	BDC4RE5A BDC4RE5B	BDC4RG0A
	13MY	39100-2GAE5		4WD		BDC4RE5C BDC4RE5D	
	(ULEV)	39100-2GAG0	AT	2WD	NO (Key Start)	BDC4ME5A BDC4ME5B BDC4ME5C BDC4ME5D	DDC4MC04
		39100-2GAG5		4WD			BDC4MG0A
AN 2.0L T-GDI	13MY (ULEV)	39100-2GBB0	AT	2WD	YES (Start- Stop Button)	BDC0RE3A BDC0RE5A	BDC0RG0A
		39100-2GBC0		4WD		BDC0RE5B BDC0RF2A	
		39100-2GBD0		2WD	NO (Key Start)	BDC0ME3A BDC0ME5A BDC0ME5B BDC0MF2A	PDC0MC0A
		39100-2GBE0		4WD			BDCUNIGUA

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.

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SUBJECT:

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- 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

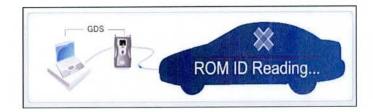
Confirm your GDS has the most recent version. If not, connect the GDS to an Internet port, open the GDS home page and select "Update". Refer to instructions on hmaservice.com if necessary.

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



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 Update event "308.DMA 2.0/2.4 P0451 DTC LOGIC IMPROVEMENT" will display. Select Upgrade.



- 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.
- If the ECM update was not successful, go to GDS MANUAL MODE ECM UPDATE PROCEDURE.
- 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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GDS MANUAL MODE ECM UPDATE PROCEDURE

* NOTE

- 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 "308.DMA 2.0/2.4 P0451 DTC LOGIC IMPROVEMENT", then select Next.
- Be certain to select the exact appropriate ECU of the vehicle, select Upgrade, enter corresponding password from the table below and select OK.

MENU	PASSWORD	
DMA 2.4 IMMO : 39100-2GAE0/5, 39110-2GAE0	1020	
DMA 2.4 NON IMMO : 39100-2GAG0/5, 39110-2GAG0	1021	
DMA 2.0 IMMO : 39100-2GBB0/C0	0200	
DMA 2.0 NON IMMO : 39100-2GBD0/E0	0201	

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