 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 13-01-027-1
	DATE JULY 2013	MODELS VELOSTER (FS)
SUBJECT 2012 VELOSTER 1.6L (FS) ECM UPDATE (CAMPAIGN TP5)		

GDS  **HYUNDAI** Global Diagnostic System **ECU Update**

NOTE: This bulletin is revised to include M/T vehicles.

Description:

This bulletin provides an ECM Update to revise the logic for the following DTCs:

- P0456 : Evaporative Emission System-Leak detected (Very small leak)

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

*** IMPORTANT**

***** RETAIL VEHICLES *****

Dealers must perform this Campaign on all affected vehicles whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Applicable Vehicles:

- 2012 MY VELOSTER (FS) with 1.6L GDI Engine manufactured Jul 04, 2011 ~ Feb 04, 2012.

GDS Information:

Event #	Description
274 - M/T vehicles	"FS 1.6 P0456 DTC LOGIC IMPROVEMENT"
295 - DCT vehicles	"FS 1.6 DCT P0456/0461/2192 DTC LOGIC IMPROVEMENT"

*** IMPORTANT:**

Veloster DCT Vehicles - Reset operation after ECU Update required:

- After ECU Update there is a prompt to turn OFF ignition for 30 seconds then back ON.
- This is required to reset the DCT and if not done the DCT may become inoperative.

Warranty Information:

Model	Op Code	Operation	Op Time
VELOSTER(FS) 1.6L	30C043R0	ECM UPGRADE	0.3

NOTE: Submit claim on Campaign Claim Entry Screen

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ROM ID INFORMATION TABLE:

Model	MY	ECM P/N	T/M	IMMO	ROM ID	
					Previous	New
Veloster FS 1.6 GDI	2012MY	39110-2BBH0	DCT	Yes (Push Button Start)	GGFS-BFU6FS00H00 GGFS-BFU6FS01H00 GGFS-BFU6FS02H00 GGFS-BFU6FS03H00 GGFS-BFU6FS04H00 GGFS-BFU6FS05H00 GGFS-BFU6FS06H00 GGFS-BFU6FF00H00	GGFS-DFU6FS03H00
		39110-2BBH3		No (Key Start)	GGFS-BFU6ES00H00 GGFS-BFU6ES01H00 GGFS-BFU6ES02H00 GGFS-BFU6ES03H00 GGFS-BFU6ES04H00 GGFS-BFU6ES05H00 GGFS-BFU6ES06H00 GGFS-BFU6EF00H00	GGFS-DFU6ES03H00
		39110-2BBF0	M/T	Yes (Push Button Start)	GGFS-BFU6FS00600 GGFS-BFU6FS01600 GGFS-BFU6FS02600 GGFS-BFU6FS03600 GGFS-BFU6FS04600 GGFS-BFU6FS05600	GGFS-BFU6FF00600
		39110-2BBF3		No (Key Start)	GGFS-BFU6ES00600 GGFS-BFU6ES01600 GGFS-BFU6ES02600 GGFS-BFU6ES03600 GGFS-BFU6ES04600 GGFS-BFU6ES05600	GGFS-BFU6EF00600

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.

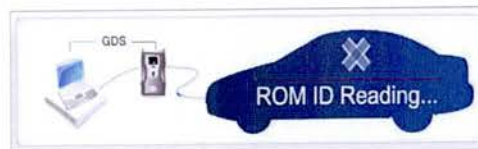
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- Perform the update with the ignition key in the ON position.
- Do not disconnect any cables connected to the vehicle or the GDS during the update.
- Do not start the engine or turn the ignition switch OFF during the update.

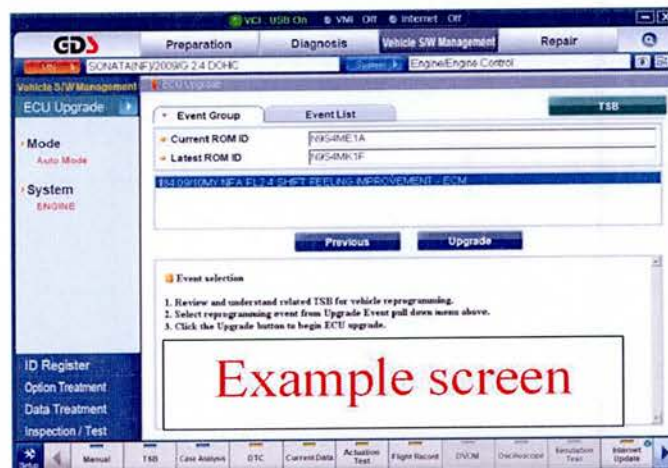
SERVICE PROCEDURE:

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 1, "ROM ID Information".



5. Select update event as listed on the **GDS Event list of page-1**. 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.
8. For DCT vehicles when prompted be sure to turn **OFF ignition 30 seconds** then turn **ON** before going to engine start. **NOTE: Failure to perform this 30 second reset may result in the DCT being inoperative.**
9. The GDS will confirm that ECM reprogramming is successfully finished. Select **OK**.
10. If the ECM update was not successful, go to **GDS MANUAL MODE ECM UPDATE PROCEDURE**.
11. Check for DTC in all systems and Erase All DTC that stored due to loss of CAN communication during the ECM Update.

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12. Start the engine to confirm proper operation.
13. Clear DTC in the BlueLink system per instructions of TSB 12-BE-005-2.

★ NOTE:

In event of AUTO MODE ECU 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 will result in claims charge back.

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 as per the **GDS Event List of page-1**, then select **Upgrade**.
6. Be certain to enter the exact appropriate password from the table below and select **OK**. **See the important NOTE above.**
7. The remaining steps are same as Steps 6~13 of the Auto Procedure.

MENU	Start Type	PASSWORD
FS 1.6 DCT IMMO : 39110-2BBH0	Push Button Start	1027
FS 1.6 DCT NON IMMO : 39110-2BBH3	Key Start	1028
FS 1.6 MT IMMO : 39110-2BBF0	Push Button Start	1020
FS 1.6 MT NON IMMO : 39110-2BBF3	Key Start	1023