

GROUP	NUMBER
CAMPAIGN	13-01-016
DATE	MODEL
MARCH 2013	VELOSTER (FS)

Technical Service Bulletin

2013 VELOSTER (FS) 1.6L ECM & TCM UPDATE (SERVICE CAMPAIGN TN0)

GDS CONTRACT ECU Update

Description: This bulletin provides a procedure to update the ECM and TCM software for 2013 Veloster (FS) 1.6L vehicles to revise the shift feeling in ECO mode.

This TSB supersedes TSB 12-01-043 to include retail vehicles.

* IMPORTANT

*** DEALER STOCK AND RETAIL VEHICLES ***

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.

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: 2013 MY Veloster (FS) 1.6L with Dual-Clutch Transmissions **Applicable Production Date Range**: From May 15, 2012 through October 11, 2012

GDS Information:

Event #	Description
Event #283 (or latest Event #)	283.FS DCT REACCELERATION LOGIC IMPROVEMENT - ECM
Event #284 (or latest Event #)	284.FS DCT REACCELERATION LOGIC IMPROVEMENT - TCM

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME
Veloster (FS)	20C104R1	ECM & TCM UPGRADE	0.5

NOTE: Submit claim on Campaign Claim Entry Screen

ECM ROM ID TABLE: Verify the ECM ROM ID before updating vehicle software.

MODEL ECM PART NUMBER			ECM ROM ID		
			PREVIOUS	NEW	
VELOSTER	39110-2BBB7	YES	GGFS-DFU6FS00H00 GGFS-DFU6FS01H00 GGFS-DFU6FS02H00	GGFS-DFU6FS03H00	
(FS) 1.6L	39110-2BBC7	NO	GGFS-DFU6ES00H00 GGFS-DFU6ES01H00 GGFS-DFU6ES02H00	GGFS-DFU6ES03H00	

SUBJECT: 2013 VELOSTER (FS) 1.6L ECM & TCM UPDATE (SERVICE CAMPAIGN TNO)

TCM ROM ID TABLE: Verify the TCM ROM ID before updating vehicle software.

MODEL		TCM R	OM ID
MODEL	ICM PART NUMBER	PREVIOUS	NEW
VELOSTER (FS)	95440-2A001	DFS0Z16NA9 DFS0Z16NAA	DFS0Z16NAC

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.





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 the 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".

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

ECM UPDATE

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, "ECM ROM ID Information". NOTE: <u>Record the ROM ID in case the auto update fails and a manual update is needed.</u>
- Update event #283.13MY FS DCT REACCELERATION LOGIC IMPROVEMENT ECM will display. Select Upgrade.

	VCI	:USBOn 🔮 VMI:C	off 🔹 Internet : Off 🎵		- ×
CDS	Preparation	Diagnosis	Vehicle S/W Manageme	nt Repair	0
Vehicle 🕨 VELOSTE	R(FS)/2013/G 1.6 GDI	y By	stem 🕨 Engine/Engine C	Control	•
Vehicle S/W Management	ECU Upgrade		and the second	and the second se	
ECU Upgrade 🕨	* Event Group	Event List		BREAK	TSB
Mode	· Current ROM ID	GGFS-DFU	ES02H00		
Auto Mode	Latest ROM ID	GGFS-DFU6	ES03H00		
• System ENGINE	283 13MY FS DCT RE	ACCELERATION LOG	NC IMPROVEMENT-ECM		
		Previous	under Upgrad	e	
	Event selection				
	 Review and under Select reprogram Click the Upgrad 	erstand related TSB nming event from U le button to begin E	for vehicle reprogrami pgrade Event pull down CU upgrade.	ming. n menu above.	
ID Register Option Treatment					
Data Treatment					
Inspection / Test					
ECU Mapping Verification	L				<u> </u>
* Manual	TSB Case Analysis DTC	Current Data Actuali Test	on Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
Start GDS	5U01 (E:)		0000000	5日以及900日第1	ロロ小日 2:15 PM

- 6. If the screen indicates "Voltage is OK", 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 <u>MANUAL</u> MODE <u>ECM</u> UPDATE PROCEDURE.
- 10. Check for Diagnostic Trouble Codes and erase any DTC.
- 11. Start the engine to confirm proper operation.

GDS MANUAL MODE ECM UPDATE PROCEDURE

* NOTE

In the event of AUTO MODE update failure (after it initiated the progress bar):

- You must attempt MANUAL MODE. Use the ECM P/N from the vehicle's ECM label if the correct ECM P/N is not clear from the ROM ID table.
- Replacing an ECM without carefully documenting that a MANUAL MODE update attempt was made will result in a charge back of your claim.
- 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 Next.
- 5. Update event **#283 13MY FS DCT REACCELERATIONLOGIC IMPROVEMENT ECM** will display. Select **Next**.
- 6. Select the correct ROM according to ECM part number on the ECM label. Select Upgrade.

GDI	Brancestion	USB On S VMI : Of	Vehicle SAN Manageme	Bongir	
	ESV2013/G 1.6 GDL	Diagnosis		Control	1018
ehicle S/W Management	ECU Upgrade		Enginerengine		
ECU Upgrade 🌙	- Event	Event List		STREET.	TSB
Mode Manual Mode	Current ROM ID	GGFS-DFU6E	S03H00		
System ENGINE	13MY FS 1.6 DCT IMMO 13MY FS 1.6 DCT NON	0 : 39110-28887 IMMO : 39110-288C7			
Event Group 283.13MY FS DCT REACCELER		Previous	Upgrad	e	22
	CAUTION * During the ECU U Failure to follow the	pgrade, observe the ese precautions may	following precaution result in ECU damag	s. je.	
ID Register Option Treatment	1) DO NOT operate ar 2) DO NOT disturb or 3) DO NOT turn off the 4) DO NOT start the v 5) DO NOT operate a audio, etc.)	ny other computer prog disconnect the DLC(Da e VCI or DO NOT disco ehicle or turn the IG ke any of the vehicles o	ram. ta Link Connector). nect VCI USB Connect y off. her systems(climate c	tor. ontrol, lighting,	
Data Treatment					
ECU Mapping Verification					<u>•</u>
Manual TS	B Case Analysis DTC	Current Data Actuation Test	Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
Start SL01 (E:)	GD5			多甜型表型目围发	口唇为铅 2:20 PI

7. Enter the Password and click **OK**.

MENU	IGNITION	PASSWORD
13 MY FS 1.6 DCT IMMO: 39110-2BBB7	SSB	1027
13 MY FS 1.6 DCT NON-IMMO: 39110-2BBC7	KEY	1028

- 8. If the "Voltage is OK", select OK. If not, select CANCEL and charge the vehicle battery.
- 9. The remaining steps are the same as Step 7~11 of the Auto Procedure.

GDS AUTO MODE TCM UPDATE PROCEDURE

- 1. From the GDS home page, select ECU Upgrade. If necessary, select the VIN.
- 2. Select **AT** as the system and then select **OK**.
- 3. Select Auto Mode and then select Next.
- 4. From the **System** tab, select **AT** and then select **OK**. The GDS will read the ROM ID. Confirm the ROM is applicable as shown on Page 1, "ROM ID Information".
- Update event #284 13NY FS DCT REACCELERATION LOGIC IMPROVEMENT TCM will display. Select Upgrade.

	SVCI :	USB On 🔮 VMI : Off	Internet : Off		- x
GDS	Preparation	Diagnosis	Vehicle S/W Managemer	t Repair	0
Vehicle 🕨 VELOSTER	R(FS)/2013/G 1.6 GDI	System	Engine/Engine C	ontrol	1
Vehicle S/W Management	ECU Upgrade			a Autor VIPS State datab	CARL MARKEN
ECU Upgrade 🕑	• Event Group	Event List			TSB
Mode	Current ROM ID	DFS0Z16NAA			
Auto Mode	Latest ROM ID	DFS0Z16NAC			
▶ System AT	284 13MY FS DCT REA	ACCELERATION LOGIC	IMPROVEMENT-TCM		
		Previous	Upgrade		1
	 Event selection Review and under Select reprogram Click the Upgrade 	rstand related TSB for ming event from Upgr e button to begin ECL	vehicle reprogramm ade Event pull dowr upgrade.	ning. I menu above.	
ID Register					
Option Treatment					
Data Treatment					
Inspection / Test					
ECU Mapping Verification					
Setup Manual	TSB Case Analysis DTC	Current Data Actuation Test	Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
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- 6. If the screen indicates "Voltage is OK", 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 <u>30 seconds</u>, then turn it ON and select **OK**.

* NOTE		
Turn the ignition	key off for 30 seconds.	

- 8. The GDS will confirm that TCM reprogramming is successfully finished. Select OK.
- 9. If the TCM update was not successful, go to GDS <u>MANUAL</u> MODE <u>TCM</u> UPDATE PROCEDURE.
- 10. Check for any Diagnostic Trouble Codes and erase any DTC.
- 11. Drive the vehicle to confirm proper operation.

GDS MANUAL MODE TCM UPDATE PROCEDURE

* NOTE

In the event of AUTO MODE update failure (after it initiated the progress bar):

- You must attempt MANUAL MODE. Use the TCM P/N from the vehicle's TCM label if the correct TCM P/N is not clear from the ROM ID table.
- Replacing a TCM without carefully documenting that a MANUAL MODE update attempt was made will result in a charge back of your claim.
- 1. From the GDS home page, select ECU Upgrade. If necessary, select the VIN.
- 2. Select AT as the system and then select OK.
- 3. Select Manual Mode and then select NEXT.
- 4. From the System tab, select AT and then select NEXT.
- 5. Update event **#284 13MY FS DCT REACCLERATION LOGIC IMPROVEMENT TCM** will display. Select **Next**.
- 6. 13 MY FS 1.6 DCT TCM 95440-2A001 will display. Select Upgrade.

	<u>()</u> VC	I:USBOn 🔹 VMI:OI	f 🔮 Internet : Off		- X
GDS	Preparation	Diagnosis	Vehicle S/W Management	Repair	0
Vehicle 🕨 VELOSTE	ER(FS)/2013/G 1.6 GDI	Sys	em 🕨 Engine/Engine Cor	ntrol	(i) 🔡
Vehicle 8/W Managemen	t ECU Upgrade				A STREET, STREET, STREET, ST.
ECU Upgrade 🌗	- Event	Event List		(Alexandra)	TSB
▶ Mode Manual Mode	 ✓ Current ROM ID ✓ Latest ROM ID 	DFS0Z16NAC	;		
▶ System AT	13MY FS 1.6 DCT TC	M: 95440-2A001		n an an the state	
Event Group 284.13MY FS DCT REACCELE		Previous	Upgrade		
	CAUTION • During the ECU I Failure to follow th	Jpgrade, observe the nese precautions may	following precautions. result in ECU damage		
ID Register Option Treatment	1) DO NOT operate a 2) DO NOT disturb o 3) DO NOT turn off t 4) DO NOT start the 5) DO NOT operate audio, etc.)	any other computer prog r disconnect the DLC(Da he VCI or DO NOT disco vehicle or turn the IG ke any of the vehicles o	iram. ita Link Connector). nnect VCI USB Connector y off. ther systems(climate con	trol, lighting,	
Data Treatment Inspection / Test					-
ECU Mapping Verification i					i
Setup Manual	TSB Case Analysis DTC	Current Data Actuation Test	Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
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6. Enter the Password and click OK. The part number can be found on the PCM label.

MENU	PASSWORD
FS 1.6 DCT TCM: 95440-2A001	2001

- 7. If the "Voltage is OK", select OK. If not, select CANCEL and charge the vehicle battery.
- 8. The remaining steps are the same as Step 7~11 of the Auto Procedure.