

**HYUNDAI**NEW THINKING.  
NEW POSSIBILITIES.

## Technical Service Bulletin

GROUP	NUMBER
CAMPAIGN	14-01-008
DATE	MODEL
JANUARY 2014	ELANTRA (MD)

**SUBJECT:** 2013 MY ELANTRA (MD) ECM & TCM UPDATE (SERVICE CAMPAIGN TS4)HYUNDAI  
Global Diagnostic System

# ECU Update

**★ IMPORTANT****\*\*\* Retail Vehicles Only \*\*\***

Dealers must perform this Campaign 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.

**Description:** This bulletin provides a procedure to update the ECM and TCM software for 2013 Elantra (MD) vehicles with the latest update to:

- Revise the shift feeling in ECO mode.
- Revise logic for P2096: Post Catalyst Fuel Trim System too Lean (Bank 1).

**Applicable Vehicles:** 2013 MY Elantra (MD) 1.8L vehicles with automatic transmission (KMHDH\*\*\*)  
**Applicable Production Date Range:** From March 8, 2012 through August 16, 2012

**GDS Information:**

EVENT #	DESCRIPTION
306	306.UD/MD 1.8 P2096 DTC LOGIC IMPROVEMENT
290	290.13MY MD 1.8 ACTIVE ECO ACCELERATION LOGIC IMPROVEMENT-TCM

**Warranty Information:**

MODEL	OP CODE	OPERATION	OP TIME
Elantra (MD)	30C082R0	ECM & TCM UPGRADE	0.5

**NOTE:** Submit claim on Campaign Claim Entry Screen

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

MODEL	EMISSION	ECM P/N	IMMO	ECM ROM ID	
				PREVIOUS	NEW
MD 1.8L  13MY	SULEV	39101-2EMN3	YES	MD3SP1MS2D2A MD3SP1MS2D2B MD3SP1MS2D8A	MD3SP1MS2E3A
		39103-2EMN3	NO	MD3SP1NS2D2A MD3SP1NS2D2B MD3SP1NS2D8A	MD3SP1NS2E3A
	ULEV	39101-2EMP3	YES	MD3UP1MS2D2A MD3UP1MS2D2B MD3UP1MS2D8A	MD3UP1MS2E3A
		39103-2EMP3	NO	MD3UP1NS2D2A MD3UP1NS2D2B MD3UP1NS2D8A	MD3UP1NS2E3A

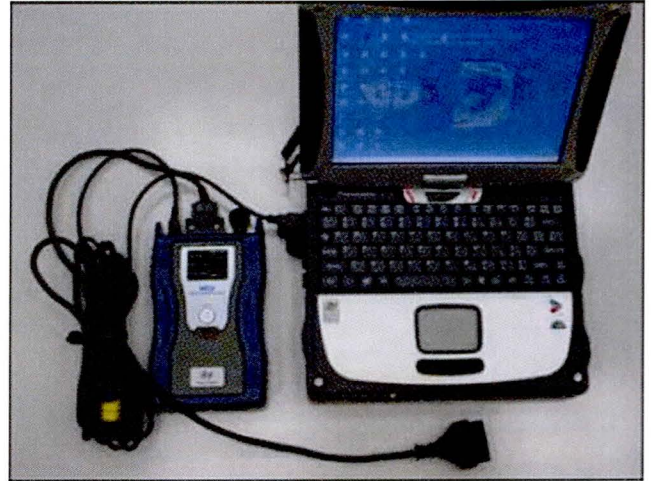
**TCM ROM ID TABLE: Verify the TCM ROM ID before updating vehicle software.**

MODEL	MY	TCM P/N	TCM ROM ID	
			PREVIOUS	NEW
ELANTRA (MD) 1.8L	13MY	39101-2EMN3 39103-2EMN3 39101-2EMP3 39103-2EMP3	TMD0C18NA8	TMD0C18NA9



**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.



**NOTICE**

**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.

**NOTICE**

**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](http://hmaservice.com) if necessary.**

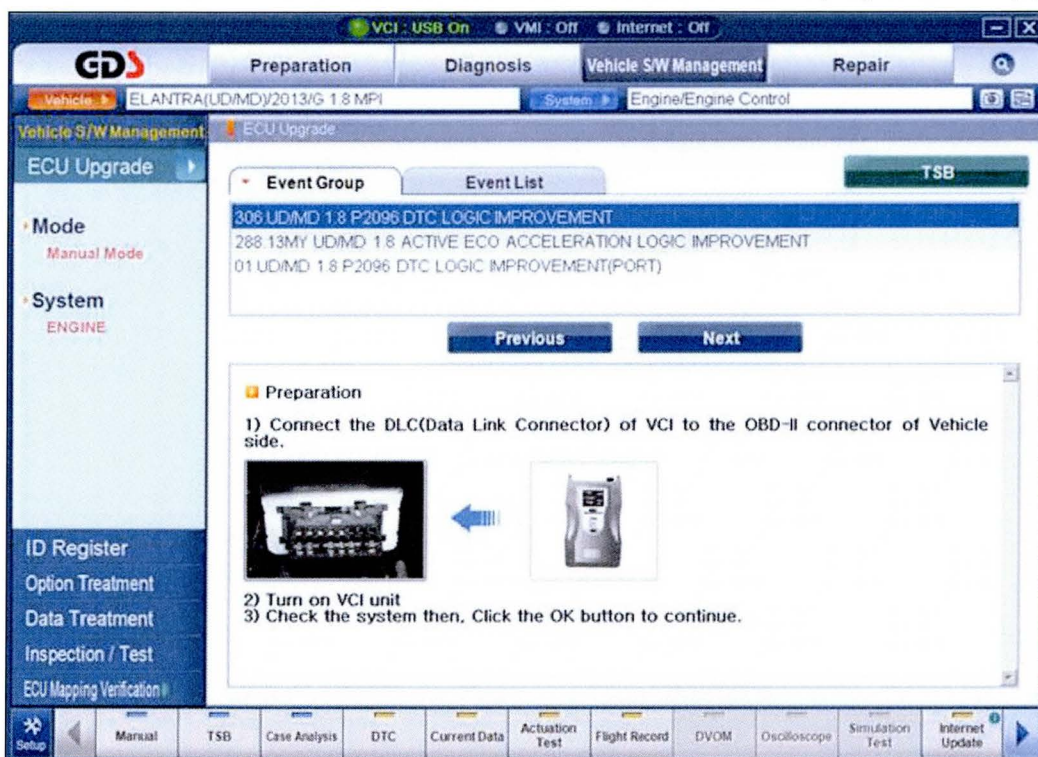
**NOTICE**

**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 ID is applicable as shown on Page 2, "ECM ROM ID Information".  
**NOTE:** Record the 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**", 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 Diagnostic Trouble Codes and erase any DTC.
11. Start the engine to confirm proper operation.



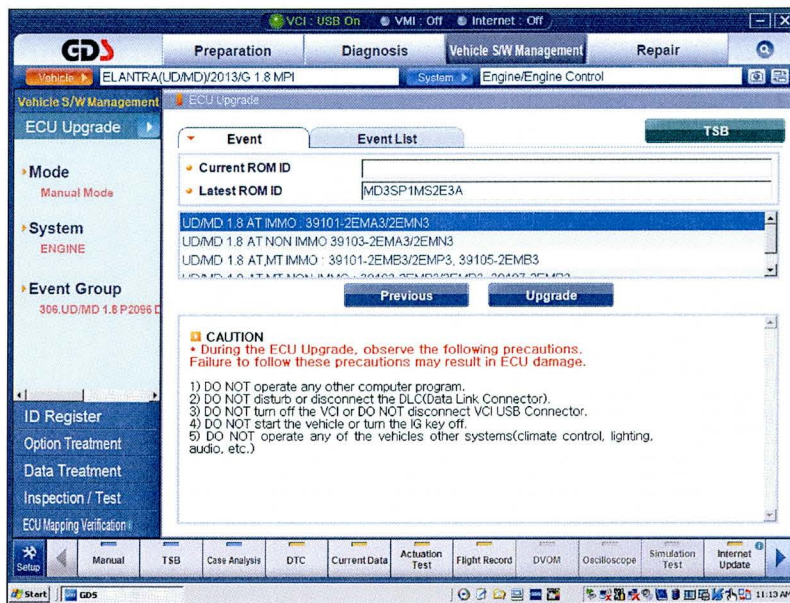
**GDS MANUAL MODE ECM UPDATE PROCEDURE**

**NOTICE**

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

- 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. Select Update event **306**. Select **Next**.
6. Select the correct ROM according to PCM part number on the PCM label. Select **Upgrade**.



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

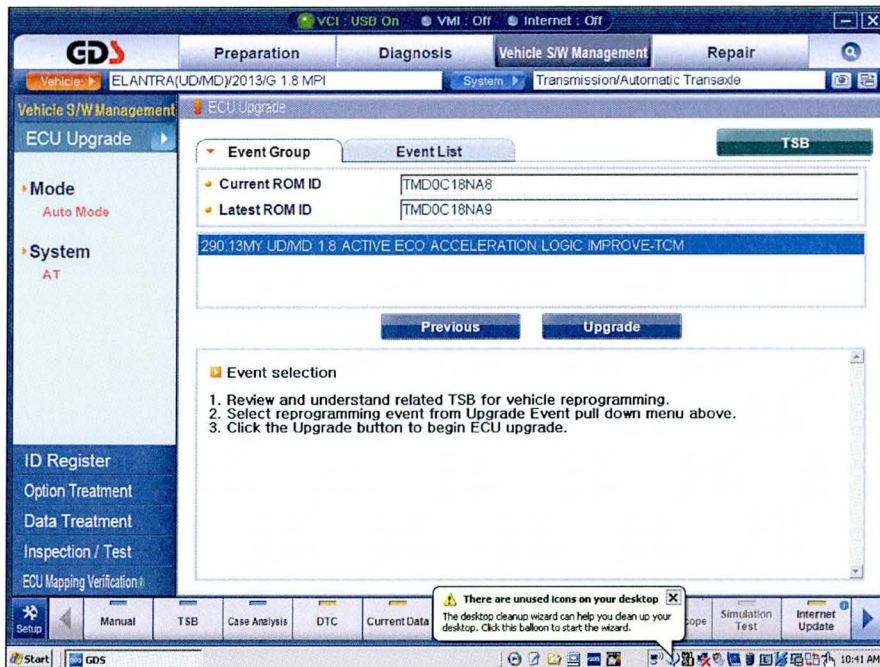
MENU	PASSWORD
UD/MD 1.8 AT IMMO : 39101-2EMA3/2EMN3	0123
UD/MD 1.8 AT NON IMMO 39103-2EMA3/2EMN3	0323
UD/MD 1.8 AT,MT IMMO : 39101-2EMB3/2EMP3, 39105-2EMB3	0523
UD/MD 1.8 AT,MT NON IMMO : 39103-2EMB3/2EMP3, 39107-2EMB3	0723

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.

**TCM UPDATE**

**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 ID is applicable as shown on Page 2, "TCM ROM ID Information".
5. Update event **290.13MY UD/MD 1.8 ACTIVE ECO ACCELERATION LOGIC IMPROVE-TCM** will display. Select **Upgrade**.



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 TCM reprogramming is successfully finished. Select **OK**.
9. If the TCM update was not successful, go to **GDS MANUAL MODE TCM UPDATE PROCEDURE**.
10. Check for any Diagnostic Trouble Codes and erase any DTC.
11. From the home screen, select Vehicle, **AT** menu and **Option Treatment**. Select **Resetting Auto T/A Values** and follow the prompts on the screen.
12. Drive the vehicle to confirm proper operation.



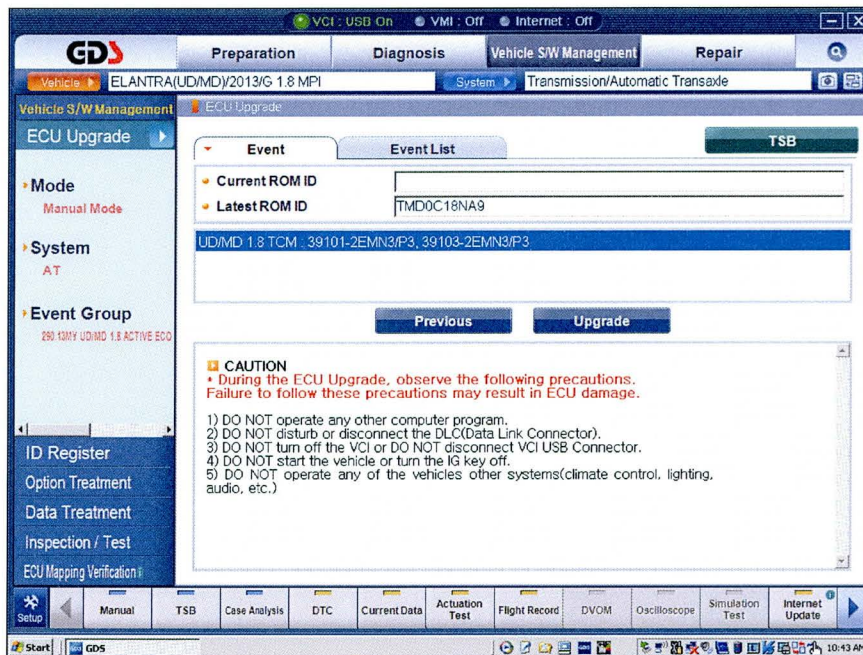
**GDS MANUAL MODE TCM UPDATE PROCEDURE**

**NOTICE**

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

- 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 **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 **290.13MY UD/MD 1.8 ACTIVE ECO ACCELERATION LOGIC IMPROVE-TCM** will display. Select **Next**.
- 6 Select the ROM according to the part number on the PCM label. Select **Upgrade**.



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

MENU	PASSWORD
UD/MD 1.8 TCM : 39101-2EMN3/P3, 39103-2EMN3/P3	0323

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 7~12 of the Auto Procedure.