SB-10053530-5107



Technical Service Bulletin

AUGUST 2013	ELANTRA (MD/UD)
DATE	MODEL(S)
CAMPAIGN	13-01-034
GROUP	NUMBER

SUBJECT:

ECM UPDATE – P2096 AND/OR MISFIRE DTC(s) (SERVICE CAMPAIGN TQ1)



* IMPORTANT

*** Retail Vehicles Only ***

Dealers must perform this Service 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 an ECM update to revise the logic for the following DTC(s):

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

Applicable Vehicles: 2012MY ELANTRA (MD/UD)

Applicable Production Date Range: From May 21, 2011 to October 27, 2011

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	
ELANTRA (MD/UD)	30C047R0	ECM UPGRADE	0.3 M/H	

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		Emission	ECM P/N	T/M	ІММО	ROM ID	
	MY					Previous	New
		SULEV	39101-2EMA2 (MD/UD)	(S Bu	YES (Start- Stop Button)	MD2SP1MS2B0A MD2SP1MS2B4A MD2SP1MS2B4B MD2SP1MS2B4C MD2SP1MS2B7A	MD2SP1MF2E3A
			39101-2EMN2 (MD)			MD2SP1MS2B7A	
			39103-2EMA2 (MD/UD)		NO (Key Start)	MD2SP1NS2B0A MD2SP1NS2B4A MD2SP1NS2B4B MD2SP1NS2B4C MD2SP1NS2B7A	MD2SP1NF2E3A
			39103-2EMN2 (MD)			MD2SP1NS2B7A	
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		MD2UP1NS2B0A MD2UP1NS2B4A MD2UP1NS2B4B MD2UP1NS2B4C MD2UP1NS2B7A		
		39103-2EMP2 (MD)		MD2UP1NS2B7A	MD2UP1NF2E3A		
		39107-2EMB2 (MD/UD)	МТ	Start)	MD2UP1NS2B0A MD2UP1NS2B4A MD2UP1NS2B4B MD2UP1NS2B4C MD2UP1NS2B7A		

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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.
- Select Engine as the system and then select OK.
- Select Auto Mode and then select Next.

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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.



 Update event "306. UD/MD 1.8 P2096 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.
- 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.
- Select update event "306. UD/MD 1.8 P2096 DTC LOGIC IMPROVEMENT", then select Upgrade.
- 6. Be certain to enter the exact appropriate password from the table below and select **OK**.

MENU	PASSWORD
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

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

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