

 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP FUEL SYSTEM	NUMBER 14-FL-007
	DATE DECEMBER 2014	MODEL(S) TUCSON (LM)
SUBJECT: ECM UPDATE – TUCSON 2.4L MIL ON (DTC P0300-P0304)		

ECU Update

Description:

This bulletin provides information related to the ECM software update on certain 10~11MY TUCSON (LM) 2.4L vehicles which may experience a check engine light with any of the following DTC's:

- P0300 : Random/Multiple Cylinder Misfire Detected
- P0301 : Cylinder1-Misfire detected
- P0302 : Cylinder2-Misfire detected
- P0303 : Cylinder3-Misfire detected
- P0304 : Cylinder4-Misfire detected

Applicable Vehicle: 2010-2011MY Tucson (LM) with 2.4L engine

GDS Information:

Event #	Description
333	LM 2.4MPI MISS-FIRE(P0300~P0304)IMPROVEMENT

Warranty Information:

Model	Op Code	Operation	Op Time	Causal P/N
TUCSON (LM)	39106F14	ECM UPGRADE	0.3 M/H	(See NOTE)

NOTE: Use the applicable ECM P/N listed in the ROM ID Information Table from the following page.

ROM ID Information Table:

Model	Trans	Year	ECU Part No.	ROM ID	
				Previous	New
LM 2.4MPI SULEV	A/T	10MY	39106-2G820	LAS4MK3A LAS4MK3B	LAS4MQ0B
		11MY	39106-2G821	LAS4ML0A LBS4MM2A LBS4MQ0A LBS4MQ0B	LBS4MQ0C
LM 2.4MPI	A/T	10MY	39106-2G800	LAC4MK3A LAC4MK3B	LAC4MQ0B
		11MY	39106-2G801	LAC4ML0A LBC4MM2A LBC4MQ0A LBC4MQ0B	LBC4MQ0C
ULEV	M/T	10MY	39116-2G800	LAC4MK3A LAC4MK3B	LAC4MQ0B
		11MY	39116-2G801	LAC4ML0A LBC4MM2A LBC4MQ0A LBC4MQ0B	LBC4MQ0C

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 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.

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 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, "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. 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 updating has successfully finished. Select **OK**.
9. If the ECM update was not successful, go to **GDS Manual Mode ECM update Procedure**.
10. 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.

GDS Manual Mode ECM Update Procedure

NOTICE

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.

NOTICE

- 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-3, then select Upgrade.
6. Be certain to enter the exact appropriate password from the table below and select OK. See the important NOTICE above.
7. The remaining steps are same as Steps 6~12 of the Auto Procedure.

MENU	PASSWORD
LM 2.4MPI AT SULEV 10MY -IMMO 39106-2G820	2820
LM 2.4MPI AT SULEV 11MY -IMMO 39106-2G821	2821
LM 2.4MPI ULEV 10MY -IMMO 39106/116-2G800	2800
LM 2.4MPI ULEV 11MY -IMMO 39106/116-2G801	2801