

**HYUNDAI**NEW THINKING.
NEW POSSIBILITIES.**Technical Service Bulletin**

GROUP FUEL SYSTEM	MODEL ACCENT (RB)
DATE JUNE 2013	NUMBER 13-FL-005

SUBJECT	ECM UPDATE – MIL ON DTC P0456 / P0461 / P050A
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HYUNDAI
Global Diagnostic System**ECU Update***This bulletin revised 12-FL-006 to add DTC P050A.***Description:**

This bulletin provides information for an ECM software update of some 1.6L vehicles that may experience any of the following DTC:

- P0456: Evaporative Emission System-Leak detected (Very small leak)
- P0461: Fuel Level Sensor 'A' Circuit Range/Performance
- P050A: Cold Start Ignition Timing Performance

NOTE: There are no vehicle performance issues associated with this condition.

Applicable Vehicles:

- 2012-2013 MY ACCENT (RB) with 1.6L GDI Engine manufactured prior to May 14, 2012.

GDS Information:

EVENT #	DESCRIPTION
273 (or later compatible event)*	"RB 1.6 P0456,P0461,P050A DTC LOGIC IMPROVEMENT"

(* the latest event that shows up in the Engine Auto Mode event list for the particular vehicle/engine)

Warranty Information:

Model	Op Code	Operation	Op Time	Causal P/N	Nature	Cause
ACCENT (RB)	39110F6X	ECM UPGRADE	0.3	(See NOTE)	N69	C40

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

*** NOTE:**

In 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 warranty claim charge back.

SUBJECT: ECM UPDATE – MIL ON DTC P0456/P0461/P050A

ROM ID INFORMATION TABLE:

Verify the ECM ROM ID before updating the vehicle's software. Refer to the table below.

Model	MY	ECM P/N	T/M	ROM ID	
				Previous	New
RB 1.6 GDI	2012	39110-2BAD0	M/T	GGRB-ANU6ES00600 GGRB-ANU6ES01600 GGRB-ANU6ES02600 GGRB-ANU6ES03600 GGRB-ANU6ES04600 GGRB-ANU6ES0060A GGRB-ANU6ES016A0 GGRB-ANU6ES026A0	GGRB-DNU6ES02600
	2013	39110-2BAE1		GGRB-DNU6ES00600 GGRB-DNU6ES01600	
	2012	39110-2BAD5 39110-2BAD7	A/T	GGRB-ANU6PS00C00 GGRB-ANU6PS01C00 GGRB-ANU6PS02C00 GGRB-ANU6PS03C00 GGRB-ANU6PS04C00 GGRB-ANU6PS00C0A GGRB-ANU6PS01CA0 GGRB-ANU6PS02CA0	GGRB-DNU6PS02C00
	2013	39110-2BAS1		GGRB-DNU6PS00C00 GGRB-DNU6PS01C00	

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.

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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.

* 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.

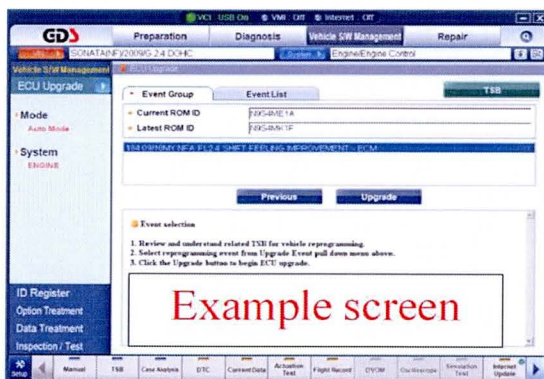
SERVICE PROCEDURE:

GDS AUTO MODE ECM UPDATE PROCEDURE

1. From the GDS home page, select **ECU Upgrade**. If necessary, select the VIN.
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. 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 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

★ 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 on the next page and select **OK**. **See the important NOTE above**.
7. The remaining steps are same as Steps 6~12 of the Auto Procedure.

MENU	PASSWORD
RB 1.6 MT NON IMMO: 39110-2BAD0/E1	1020
RB 1.6 AT NON IMMO: 39110-2BAD5/D7/S1	1025