 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP FUEL SYSTEM	MODEL ACCENT (RB)
	DATE MARCH 2012	NUMBER 12-FL-002
SUBJECT ECM UPDATE – MIL ON DTC P0128/P0191/P061B/P2188		

GDS  **ECU Update**
Global Diagnostic System

Description:

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

- P0128: Coolant Thermostat (Coolant Temperature below Thermostat Regulating Temperature)
- P0191: Fuel Rail Pressure Sensor Circuit Range/Performance
- P061B: Internal Control Module Torque Calculation Performance
- P2188: Fuel System Too Rich - At Idle (Bank 1)

Applicable Vehicles:

- 2012 MY ACCENT (RB) with 1.6L GDI Engine

GDS Information:

EVENT #	DESCRIPTION
268 (or later compatible event)*	"RB 1.6 P0128 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)	39110F6C	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, will result in claims charge back.

ROM ID INFORMATION TABLE:

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

Model	ECM P/N	T/M	IMMO	ROM ID	
				Previous	New
ACCENT (RB) 1.6 GDI	39110-2BAD0	M/T	NO	GGRB-ANU6ES00600 GGRB-ANU6ES01600 GGRB-ANU6ES02600 GGRB-ANU6ES03600 GGRB-ANU6ES04600 GGRB-ANU6ES0060A GGRB-ANU6ES016A0	GGRB-ANU6ES026A0
	39110-2BAD5	A/T	NO	GGRB-ANU6PS00C00 GGRB-ANU6PS01C00 GGRB-ANU6PS02C00 GGRB-ANU6PS03C00 GGRB-ANU6PS04C00 GGRB-ANU6PS00C0A GGRB-ANU6PS01CA0	GGRB-ANU6PS02CA0

*** NOTE**

IMMO = YES: Push Button Start
IMMO = NO: Key Start

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.

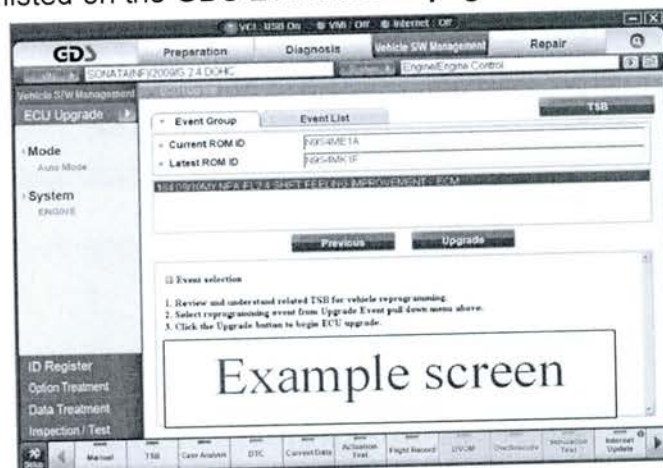
SERVICE PROCEDURE:

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.

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- 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 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	Comments
RB 1.6 MT NON IMMO: 39110-2BAD0	1020	Key Start
RB 1.6 AT NON IMMO: 39110-2BAD5	1025	Key Start