 <b>HYUNDAI</b> NEW THINKING. NEW POSSIBILITIES.	GROUP <b>CAMPAIGN</b>	NUMBER <b>14-01-034</b>
	DATE <b>SEPTEMBER, 2014</b>	MODEL(S) <b>SONATA (YF)</b>
<b>Technical Service Bulletin</b>		
SUBJECT:	<b>ECM UPDATE – 2011 SULEV SONATA 2.4L COLD START LOGIC REVISION (SERVICE CAMPAIGN 930)</b>	

  **ECU Update**

**\* 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.

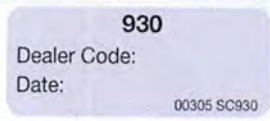
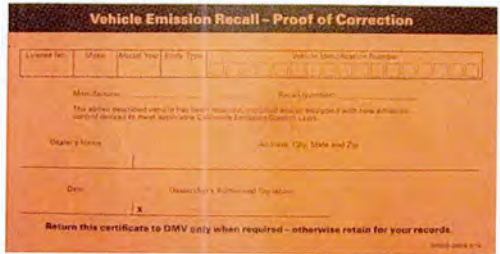
**Description:** This bulletin provides instructions related to an ECM software update of some 2011MY SULEV specification Sonata (YF) 2.4L vehicles to comply with emission regulations.

**Applicable Vehicles:** 2011MY SONATA (YF) 2.4L SULEV

**GDS Information:**

EVENT #	DESCRIPTION
326	"326. YFA 2.4 GDI COLD START LOGIC IMPROVEMENT"

**Part Information:**

Part Name	Part Number	Qty.	Figure
Campaign Sticker	00305-SC930	1	
Vehicle Emission Recall-Proof of Correction Card	NP050-09006	1	

**Warranty Information:**

Model	Op Code	Operation	Op Time
SONATA (YF)	40CA04R0	ECM UPGRADE	0.3 M/H

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair



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

**ECM ROM ID INFORMATION TABLE:**

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

Model	MY	ECM P/N	IMMO	ROM ID	
				Previous	New
SONATA 2.4L (YF)	11MY	39111-2G675	YES (Push Button Start)	YBS4R82A	YBS4RF3E
		39111-2G676	YES (Push Button Start)	YBS4R86B YBS4R86C YBS4R88A	YBS4RF3F
		39111-2G665	NO (Key Start)	YBS4M82A	YBS4MF3E
		39111-2G666	NO (Key Start)	YBS4M86B YBS4M86C YBS4M88A	YBS4MF3F

**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 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 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, "ECM ROM ID Information".  
**NOTE:** Record the ECM ROM ID in case the auto update fails and a manual update is needed.



5. Update event "**326. YFA 2.4 GDI COLD START LOGIC IMPROVEMENT**" will display. 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 update 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.
13. Clear DTC in the BlueLink system per instructions of TSB 12-BE-005-2.



**NOTICE**

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.

**GDS MANUAL MODE ECM UPDATE PROCEDURE**

**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 "**326. YFA 2.4 GDI COLD START LOGIC IMPROVEMENT**", then select **Upgrade**.
6. Be certain to enter the exact appropriate password from the table below and select **OK**.

MENU	PASSWORD
YFA 2.4 GDI IMMO 39111-2G675	2675
YFA 2.4 GDI IMMO 39111-2G676	2676
YFA 2.4 GDI NON IMMO 39111-2G665	2665
YFA 2.4 GDI NON IMMO 39111-2G666	2666

7. The remaining steps are the same as Steps 6~13 of the Auto Procedure.



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For California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont and Washington:

**VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD**

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

**WHAT TO DO WITH THE CARD:**

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not from the repair order. ALL INFORMATION MUST BE PRINTED AND NEAT.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in. **The completely filled out Vehicle Emission Recall - Proof of Correction card should be given to the owner of the vehicle upon completion of the Campaign.**

1. Enter Vehicle's License Number

2. Enter "Hyundai"

3. Enter "2011"

4. Enter "SONATA"

5. Enter the vehicle's VIN Number

6. Enter "930"

7. Enter Dealership Name

8. Enter Dealership's Address. NOTE: Enter the physical address, not the mailing address (not a P.O. Box)

9. Enter Date of Repair

10. Service Manager Sign Here

- Fill in the information on the 00305-SC930 Campaign Label and apply onto the body in the area next to the ECM as shown. **Be sure to clean the mounting surface to ensure proper label adhesion.**

