

**HYUNDAI**NEW THINKING.  
NEW POSSIBILITIES.**Technical Service Bulletin**GROUP  
CAMPAIGNNUMBER  
14-01-028DATE  
JULY, 2014MODEL(S)  
SANTA FE (CM)

SUBJECT:

ECM UPDATE – CM 3.5L RPM LOGIC  
(SERVICE CAMPAIGN 929)**SB-10056506-4203**HYUNDAI  
Global Diagnostic System**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:** The 2010-2012 Santa Fe's 3.5 liter engine management system incorporates an electrical power management feature to regulate the alternator load under various operating conditions. This is done to help protect the battery from overcharging and to regulate the load the alternator places on the engine to maximize efficiency. On vehicles utilizing a Remy® brand alternator, during a specific set of operating conditions when coming to a stop during braking at low speed, the load placed on the engine by the alternator may momentarily result in a reduction in the engine rpm. This, combined with an additional, simultaneous load on the engine may cause the vehicle's engine to stall. The vehicle can be restarted immediately.

This bulletin provides the procedure to update the vehicle's Engine Control Module logic to address this condition.

**Applicable Vehicles:** 2010 - 2012MY SANTA FE (CM) 3.5L

**GDS Information:**

EVENT #	DESCRIPTION
324	"324.CM 3.5 RPM LOGIC IMPROVEMENT"

**Warranty Information:**

Model	Op Code	Operation	Op Time
SANTA FE (CM)	40CG02R0	ECM UPGRADE	0.3 M/H

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

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



**ECM 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	IMMO	ROM ID	
					Previous	New
SANTA FE 3.5L (CM)	10MY	39109-3C560	AT	NO (Key Start)	CMAN35*S2**AB5A* CMAN35*S2**AB5B* CMAN35*S2**AB6B* CMAN35*S2**AB8JZ CM9N35*S2**AD1BS	CM9N35*S2**AD1DS
					CMAN35*S2**AB8B* CMAN35*S2**AB8D* CMAN35*S2**AB8F* CMAN35*S2**AB8J* CM9N35*S2**AD1AS	CM9N35*S2**AD1CS
	11MY	39109-3C561	AT	NO (Key Start)	CMAN35*S2**AB8G* CMAN35*S2**AC1A* CMAN35*S2**AC1B* CMAN35*S2**AC1C* CMAN35*S2**AC6A* CMAN35*S2**AD1AS	CMAN35*S2**AD1BS
	12MY	39109-3C562	AT	NO (Key Start)	CMBN35*S2**AC4A* CMBN35*S2**AC4B* CMCN35*S2**AC6A* CMBN35*S2**AD1AS	CMBN35*S2**AD1BS

**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.
- 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.

- 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](http://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 "**324.CM 3.5 RPM 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.

**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 "**324.CM 3.5 RPM LOGIC IMPROVEMENT**", then select **Upgrade**.
6. Be certain to enter the exact appropriate password from the table below and select **OK**.

MENU	PASSWORD
10MY CM 3.5 AT NON IMMO : 39109-3C560(AB5A/AB5B/AB6B/AB8JZ/AD1BS)	3560
10MY CM 3.5 AT NON IMMO : 39109-3C560(AB8B/AB8D/AB8F/AB8H/AB8J/AD1AS)	3561
11MY CM 3.5 AT NON IMMO : 39109-3C561	3562
12MY CM 3.5 AT NON IMMO : 39109-3C562	3563

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

//ALL 07/03/2014 to 07/31/2014  
TO: Hyundai Dealership General Managers, Sales Managers,  
Service Managers, Parts Managers, and Warranty  
Administrators  
FROM: Hyundai Motor America  
DATE: 7/3/2014  
SUBJECT: Service Campaign 929 - 2010 - 2012 Santa Fe Idle  
Improvement (TSB# 14-01-028)

Hyundai Motor America is conducting a Service Campaign to update (Engine Control Module) on certain 2010 - 2012 MY Santa Fe Vehicles. Service campaign 929 provides a service procedure to update the ECM Software.

In order to identify only those vehicles affected by Service Campaign 929, it will be necessary to access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS before starting the repair. The "Warranty Vehicle Information" screen will identify affected vehicles with an open Service Campaign 929.

A listing of VEHICLES is also located on WEBDCS, SERVICE tab, select INFORMATION, and select UNCOMPLETED CAMPAIGN VIN LISTING - DEALER STOCK and RETAILED.

TSB #14-01-028 is available on HMAService.com as of 07/03/2014. It contains instructions on performing the service and submitting the campaign claim.

Customer notification letters will start mailing in August 2014 to all applicable consumers.

It is IMPORTANT TO SUBMIT A CAMPAIGN CLAIM FOR EACH VEHICLE SERVICED so your dealership can be compensated for your work and Hyundai can maintain accurate records of campaign completions.

LEGAL LIABILITY NOTICE: You are required to keep confidential any and all information and documents provided to you by Hyundai Motor America in the conduct of carrying out work for this service campaign. Hyundai Motor America dealers may use owner information provided for the campaign only for the purpose of conducting and performing this service campaign, and for no other purpose.

Hyundai appreciates your cooperation and support. Questions may be directed to your District Parts and Service Manager or Warranty HELPREP line at 1-877-446-2922.

HYUNDAI MOTOR AMERICA