 <b>HYUNDAI</b>   NEW THINKING. NEW POSSIBILITIES.  <b>Technical Service Bulletin</b>	GROUP <b>CAMPAIGN</b>	NUMBER <b>15-01-003</b>
	DATE <b>JANUARY 2015</b>	MODEL(S) <b>SANTA FE SPORT (AN)</b>
<b>SUBJECT: '15MY SANTA FE SPORT (AN) TPMS RECEIVER S/W UPDATE (SERVICE CAMPAIGN TW5)</b>		

**★ IMPORTANT**

**\*\*\* Dealer Stock and Retail Vehicles \*\*\***

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and 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 describes the procedure to update the TPMS software for some '15MY Santa Fe Sport (AN) vehicles. These vehicles may experience illumination of the TPMS malfunction indicator lamp due to the diagnostic logic within the TPMS module. This software updates the diagnostic logic of the TPMS module. The following DTCs may be set due to this DTC logic issue:

- C1312 – Sensor 1 Radio Frequency Channel Failure
- C1313 – Sensor 1 Radio Frequency Channel Failure
- C1314 – Sensor 1 Radio Frequency Channel Failure
- C1315 – Sensor 1 Radio Frequency Channel Failure



**Applicable Vehicles:** Certain '15MY Santa Fe Sport (AN)

**ROM ID Information Table:**

Part Number	Current ROM ID	Updated ROM ID
95800-4Z100	570	595

**GDS Information:**

Event #	Description
340	AN 15MY TPMS RECEIVER S/W IMPROVEMENT

**Warranty Information:**

Model	Op. Code	Operation	Op. Time
AN	40CG05R0	ECU 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

**SERVICE PROCEDURE:**

**GDS General Precautions:**

**NOTICE**

Make sure the battery icon at the bottom right of the GDS 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 switch in the ON position. (Turn the ignition key to the 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.

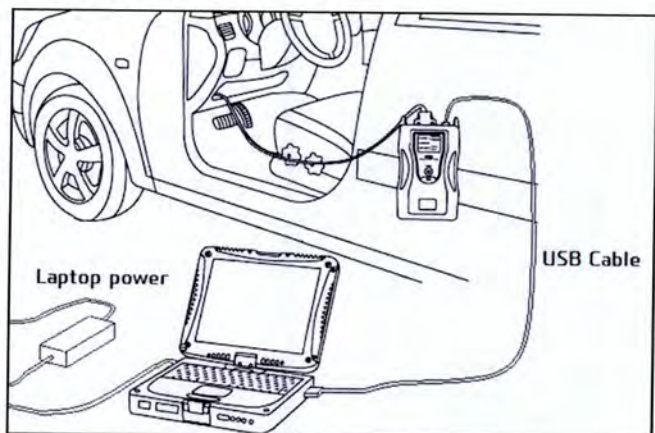
**NOTICE**

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](http://hmaservice.com) if necessary.

If you encounter GDS related problems, call the GIT Helpline at 888-437-0308.

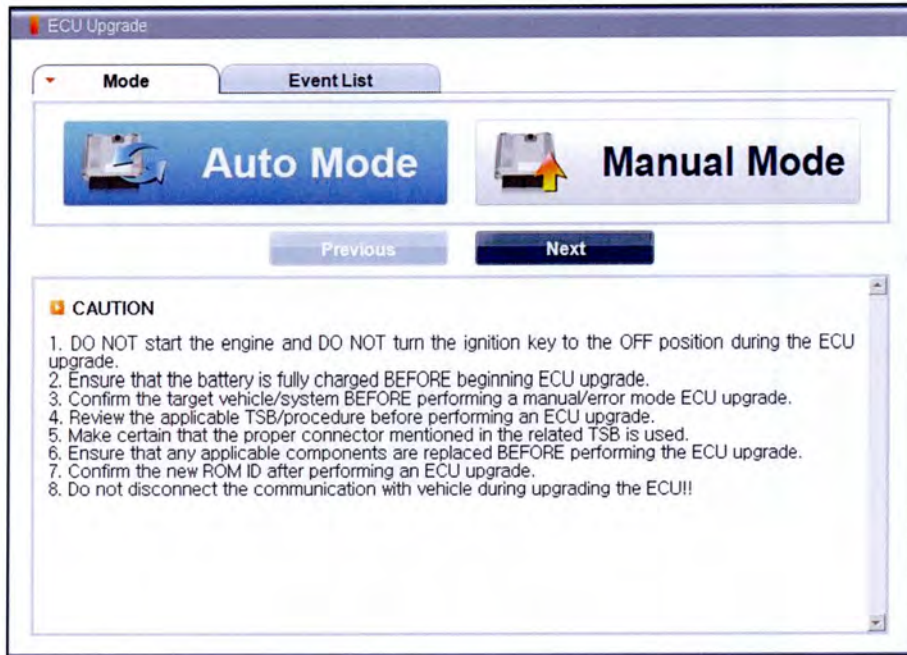
**GDS (Global Diagnostic System) Laptop Installation Procedure:**

1. Connect external power to the GDS laptop.
2. Connect the USB cable between the GDS and the VCI.
3. Connect the 16-pin DLC connector from the VCI into the DLC located under the driver's side dash.
4. Turn the VCI on, and set the vehicle ignition switch to ON (without starting the engine).

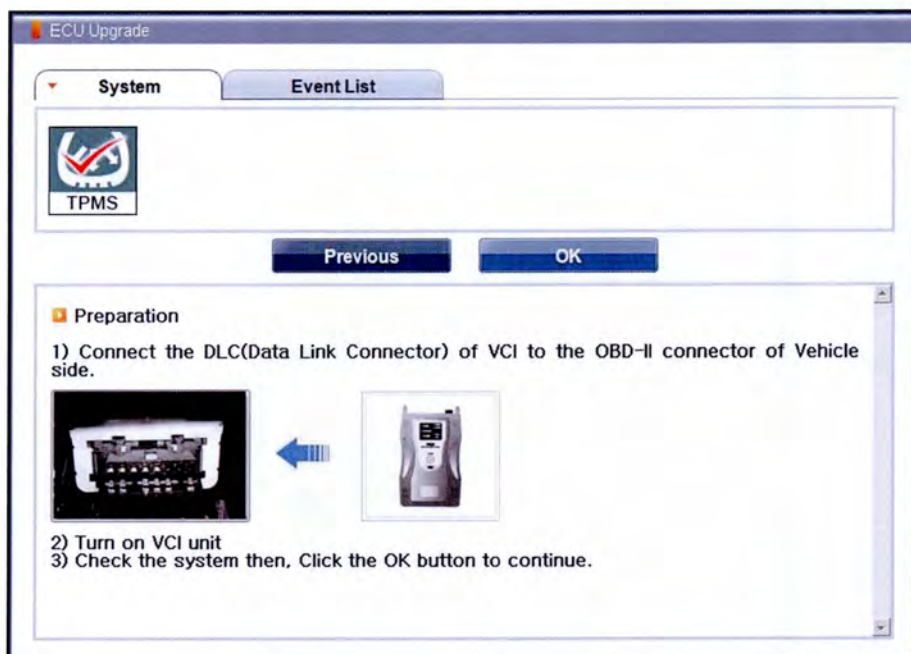


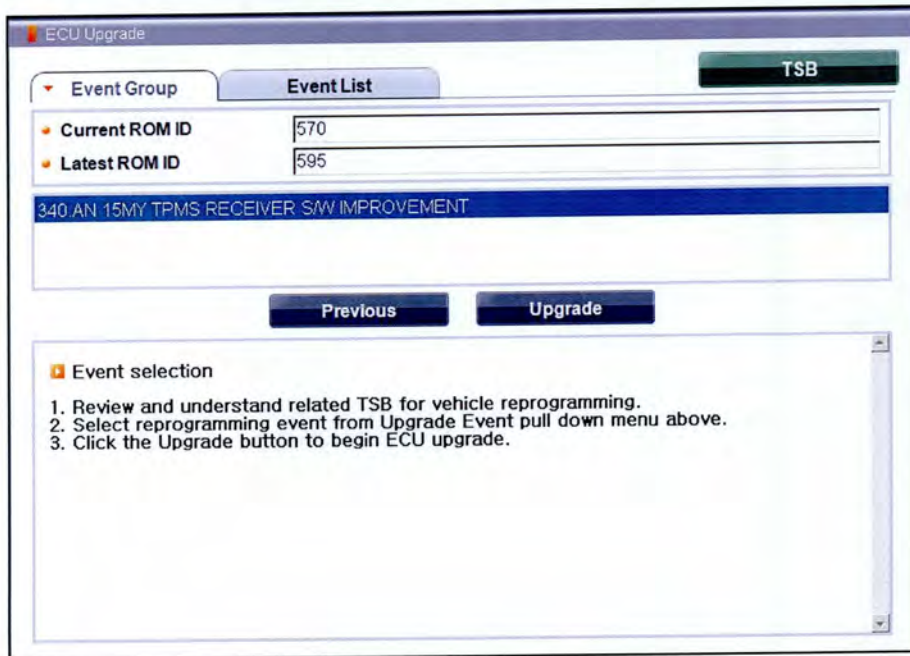
**GDS Laptop Auto Mode TPMS Update Procedure:**

1. From the GDS home page, select **ECU Upgrade**. If necessary, select the VIN.
2. Select **Tire Pressure Monitoring** as the system and then select **OK**.
3. Select **Auto Mode** and then select **Next**.

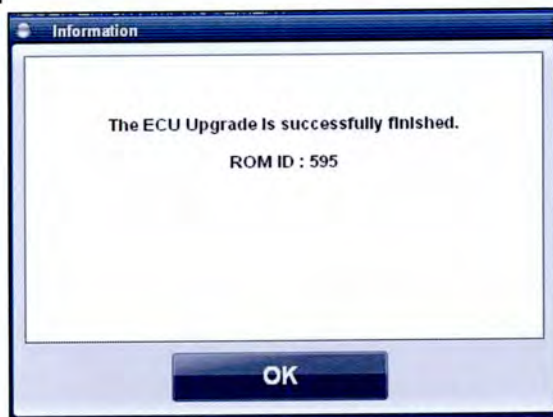


4. From the **System** tab, select **TPMS** and then select **OK**. The GDS will read the ROM ID. Confirm the ROM is applicable as shown on Page 1, "ROM ID Information Table."





5. Update event "340.AN.15MY.TPMS.RECEIVER.S/W.IMPROVEMENT" will be displayed. 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.
8. The GDS will confirm that TPMS ECU reprogramming is successfully finished and display the new ROM ID. Select **OK**.



9. If the TPMS update was not successful, go to **GDS MANUAL MODE TPMS UPDATE PROCEDURE**.
10. Check for DTCs in all systems and erase all DTCs stored due to loss of CAN communication during the TPMS update.
11. Turn the **ignition OFF for 10 seconds** then turn **ON** before going to engine start.
12. Start the engine to confirm proper operation.
13. Clear DTCs in the BlueLink system per instructions given in TSB 12-BE-005-2.

## **NOTICE**

In the event of AUTO MODE update failure, perform the MANUAL MODE update procedure.

**GDS Laptop Manual Mode TPMS Update Procedure:**

**NOTICE**

- Manual update should be performed only when the automatic update fails.
- If automatic update fails, turn the ignition switch to OFF for 10 seconds, and then back to the ON position to reset the control unit before performing manual update.

1. From the GDS home page, select **ECU Upgrade**. If necessary, select the VIN.
2. Select **Tire Pressure Monitoring** as the system and then select **OK**.
3. Select **Manual Mode**, then select **Next**.
4. From the **System** tab, select **TPMS** and then select **Next**.
5. Select event group "**340. AN 15MY TPMS Receiver S/W improvement,**" then select **Next**.
6. Select event "**AN 15MY TPMS 95800-4Z100,**" then select **Upgrade**.
7. Enter the appropriate password from the below table, then click **OK**.

MENU	PASSWORD
AN 15MY TPMS 95800-4Z100	4100

8. 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.
9. Updating will occur until 100% is reached on the bar graph.
10. The GDS will confirm that TPMS ECU reprogramming is successfully finished and display the new ROM ID. Select **OK**.
11. Check for DTCs in all systems and erase all DTCs stored due to loss of CAN communication during the TPMS update.
12. Turn the **ignition OFF for 10 seconds** then turn **ON** before going to engine start.
13. Start the engine to confirm proper operation.
14. Clear DTCs in the BlueLink system per instructions given in TSB 12-BE-005-2.