



**HYUNDAI** | NEW THINKING.  
NEW POSSIBILITIES.

## Technical Service Bulletin

GROUP <b>CAMPAIGN</b>	NUMBER <b>16-01-025</b>
DATE <b>MAY 2016</b>	MODEL(S) <b>LF HEV SONATA HYBRID</b>

**SUBJECT:** TPMS DIAGNOSTIC LOGIC UPDATE (SERVICE CAMPAIGN TY7)

**THIS TSB SUPERSEDES 15-01-043 TO INCLUDE INSTRUCTIONS TO REMOVE THE MULTIMEDIA (AVN) FUSE BEFORE PERFORMING THE SOFTWARE UPDATE. THIS HELPS TO PREVENT POTENTIAL CAN-COMMUNICATION ERRORS AFTER PERFORMING THE SOFTWARE UPDATE.**

### ★ IMPORTANT

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

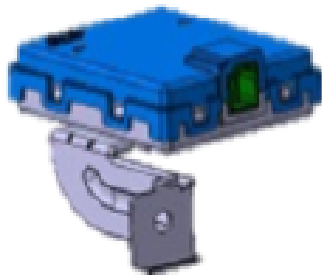
Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

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 of some 2016MY Sonata Hybrid (LF HEV) vehicles. The software updates the TPMS diagnostic logic related to DTC C1212 (Vehicle Speed Sensor).

### NOTICE

**There is no impact on the TPMS system's ability to measure and indicate low tire pressure.**



**Applicable Vehicles:** Certain 2016MY Sonata Hybrid (LF HEV) vehicles.  
LF HEV – Vehicles produced from March 17, 2015 through September 17, 2015.

#### Parts Information:

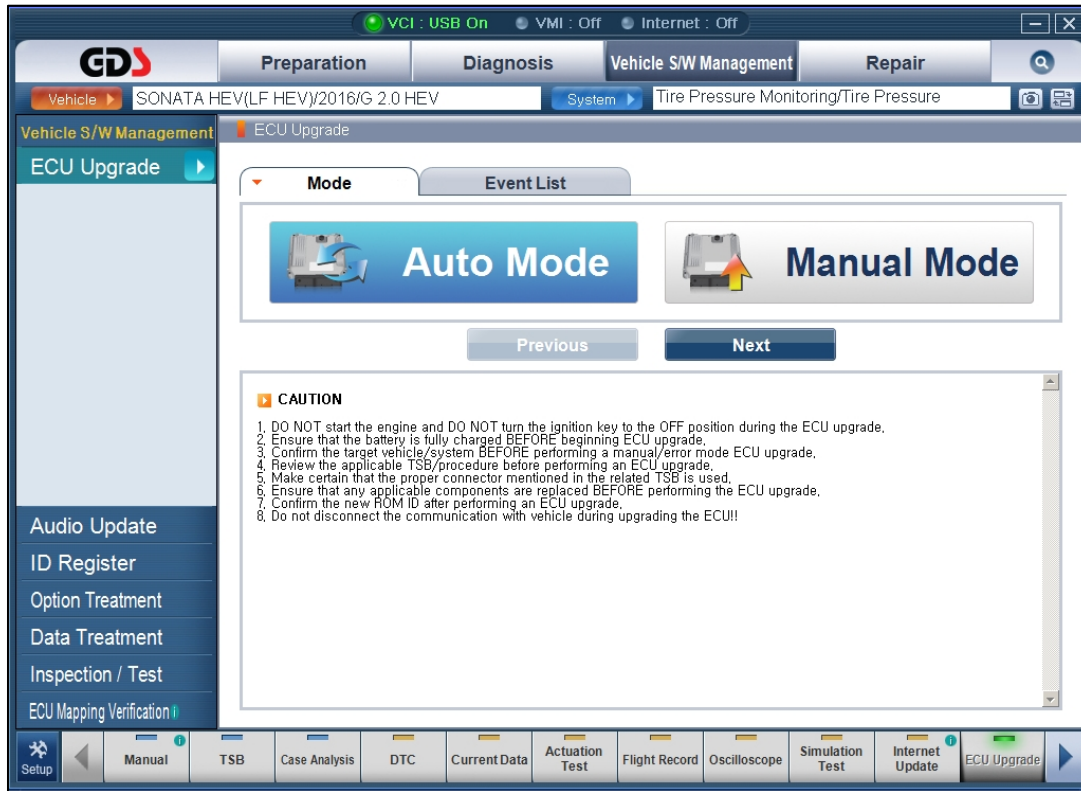
Model	Model Year	TPMS Part No.	Old ROM ID	New ROM ID
LF HEV Sonata Hybrid	16MY	95800-E6100	1.1 1.2	1.3

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

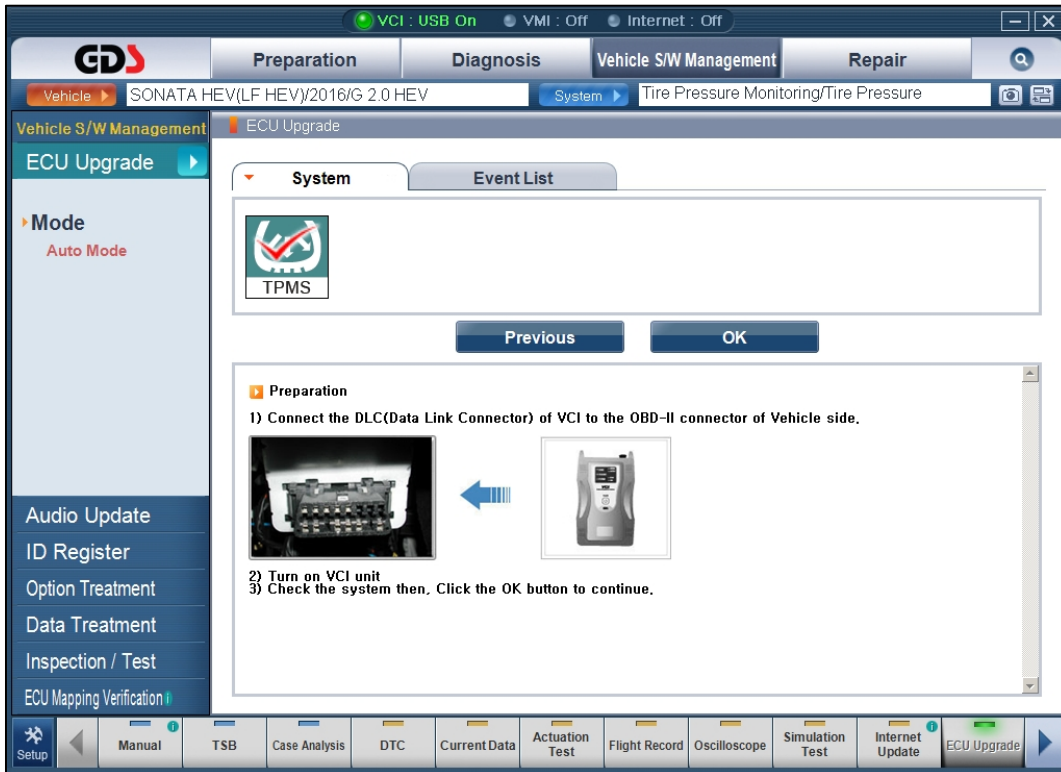


## PC-Based GDS Procedure: AUTO MODE

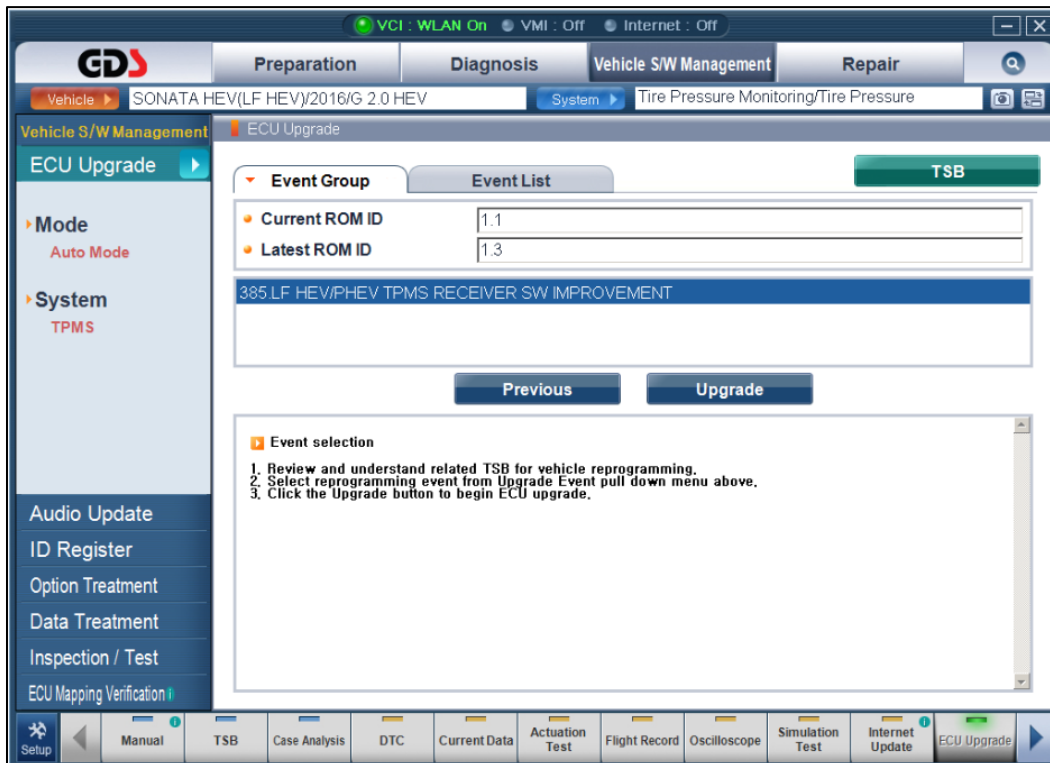
1. From the ECU Upgrade screen, select **AUTO MODE** and click **Next**.



2. Select **TPMS** for System, and click **OK**.

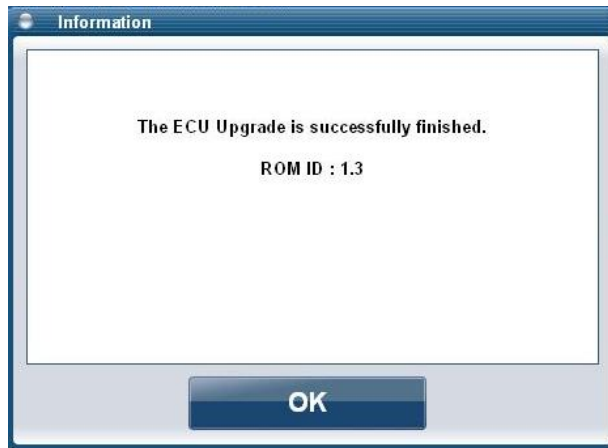


3. After the Current ROM ID is displayed, select the upgrade event “**385.LF HEV/PHEV TPMS RECEIVER SW IMPROVEMENT.**” Click **Upgrade** to continue.



4. After confirming USB cable is connected between VCI and laptop PC, and that the vehicle’s battery has adequate charge, the update will begin. After update progress reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again.

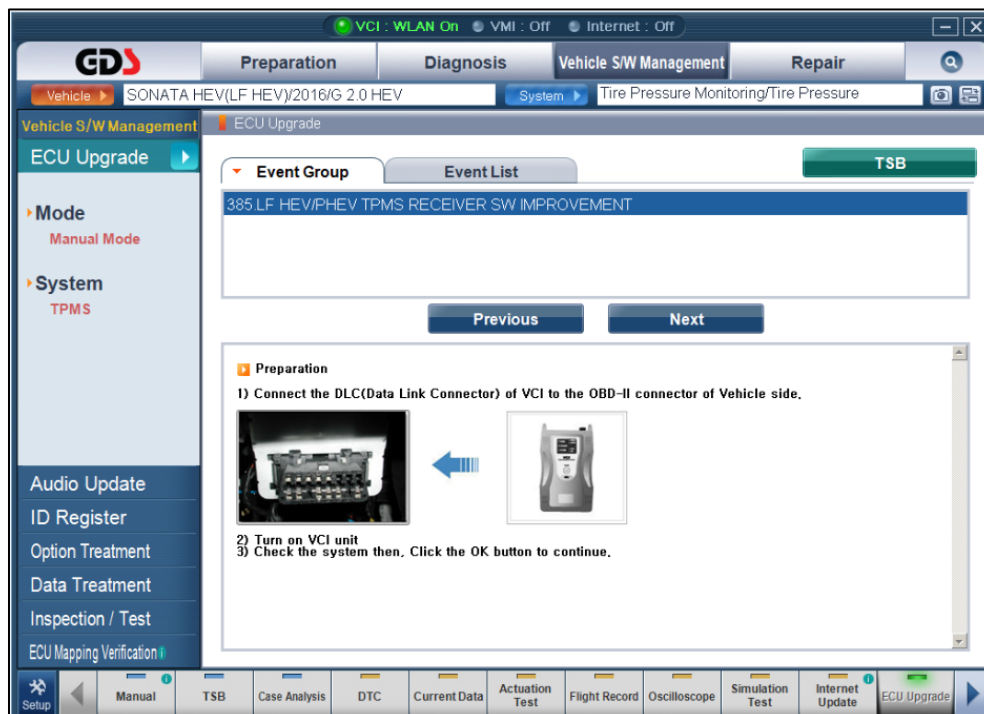
- Update completion confirmation window will be displayed, along with ROM ID.



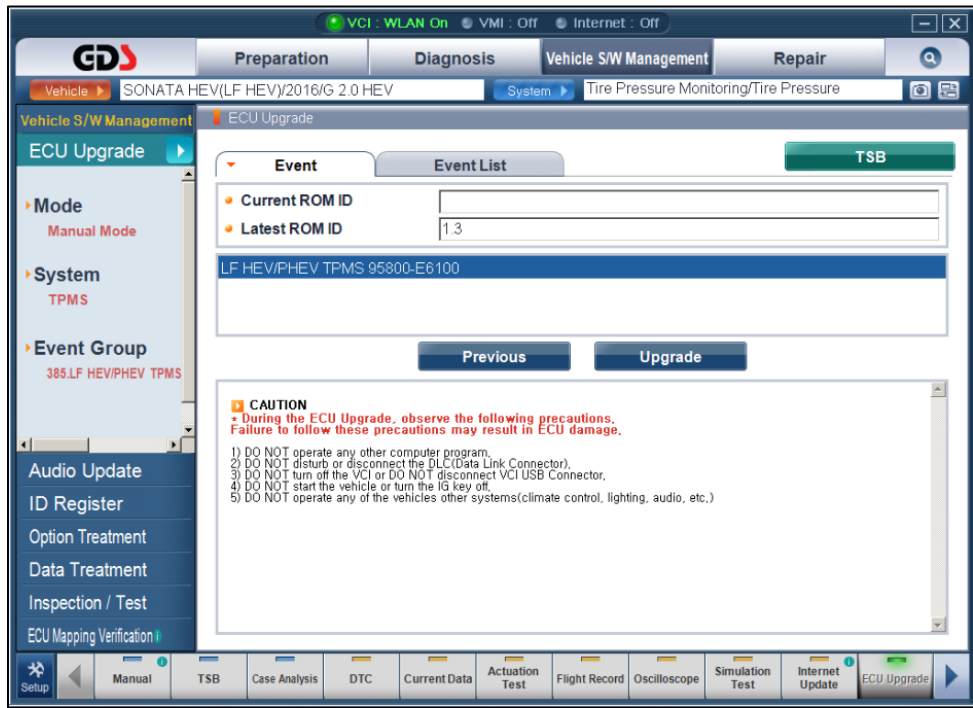
- Re-install the multimedia fuse.
- Check for any incidental diagnostic trouble codes (DTCs) and clear any present.
- Start the engine to confirm proper operation of the vehicle.
- After upgrade is complete, perform Vehicle Name Writing and Register Sensor procedures from the Vehicle S/W Management, Option Treatment menu.

#### PC-Based GDS Procedure: MANUAL MODE

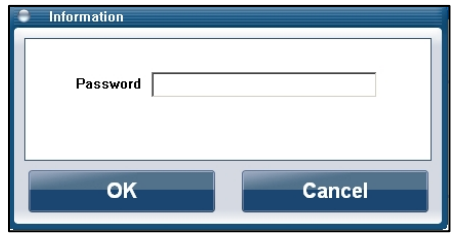
- From the ECU Upgrade screen, select **MANUAL MODE** and click **Next**.
- Select **TPMS** for System, and click **Next**.
- Select the upgrade event "**385.LF HEV/PHEV TPMS RECEIVER SW IMPROVEMENT**" and click **Next**.



- GDS will display latest ROM ID, to which TPMS system will be upgraded. Confirm ROM ID is correct based on the ROM ID Table on page 1, then click **Upgrade**.



5. A prompt for password will be displayed. Input the password according to the table below.



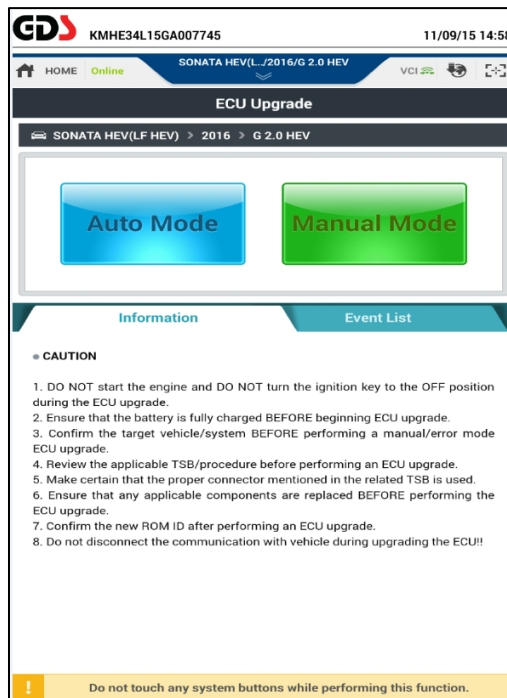
MENU	PASSWORD
LF HEV TPMS 95800-E6100	<b>6100</b>

6. Vehicle battery voltage will be checked for at least 12 volts to ensure reliable upgrade results. Click **OK** if the results indicate voltage is ok.
7. Upgrade will begin and the upgrade progress will appear on the bar graph.
8. After upgrade reaches 100%, turn the ignition to **OFF** for 10 seconds, then back **ON**. Click **OK** to continue.
9. Click **OK** on the final screen.
10. Re-install the multimedia fuse.
11. Check for any incidental diagnostic trouble codes (DTCs) and clear any present.
12. Start the engine to confirm proper operation of the vehicle.
13. After upgrade is complete, perform Vehicle Name Writing and Register Sensor procedures from the Vehicle S/W Management, Option Treatment menu.

**GDS Mobile Procedure: Auto Mode**



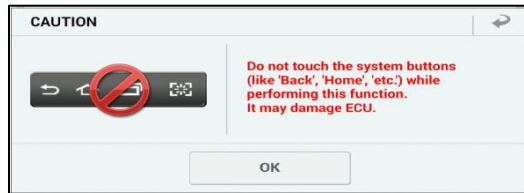
1. Starting from the ECU Upgrade menu, select **AUTO MODE**.



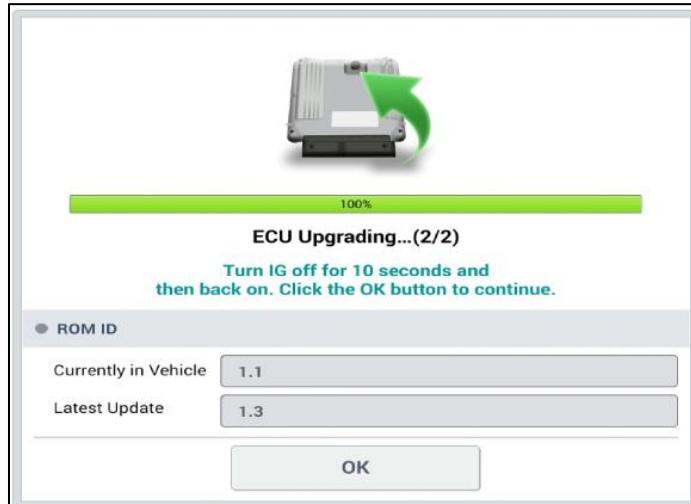
2. Select **TPMS** system and click **ID Check**. Current ROM ID will be displayed along with update ROM ID. Select **Event #385. LF HEV/PHEV TPMS RECEIVER SW IMPROVEMENT**. Verify ROM IDs according to the ROM ID Table on page 1. Click **Upgrade** to continue.



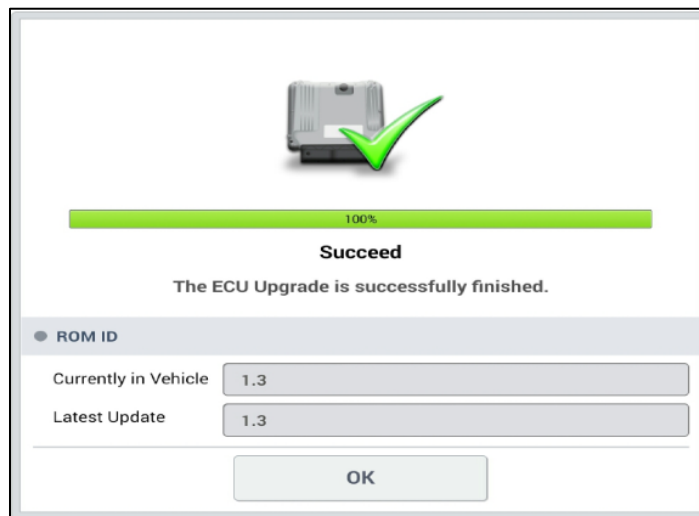
3. Read the caution note, then click **OK** to continue.



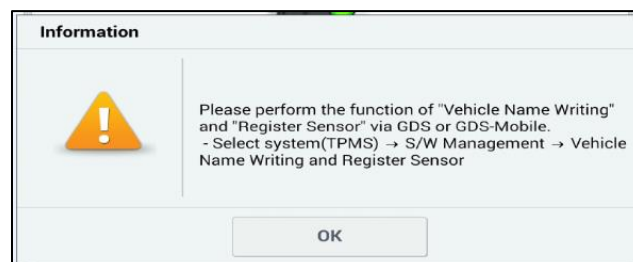
4. ECU Upgrading graph will display in two parts. After ECU Upgrading...(2/2) reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again. Click **OK** to continue.



5. Click **OK** after “ECU Upgrade has successfully finished” message is displayed.



6. Read note that instructs to perform “Vehicle Name Writing” and “Register Sensor” processes and click **OK**.





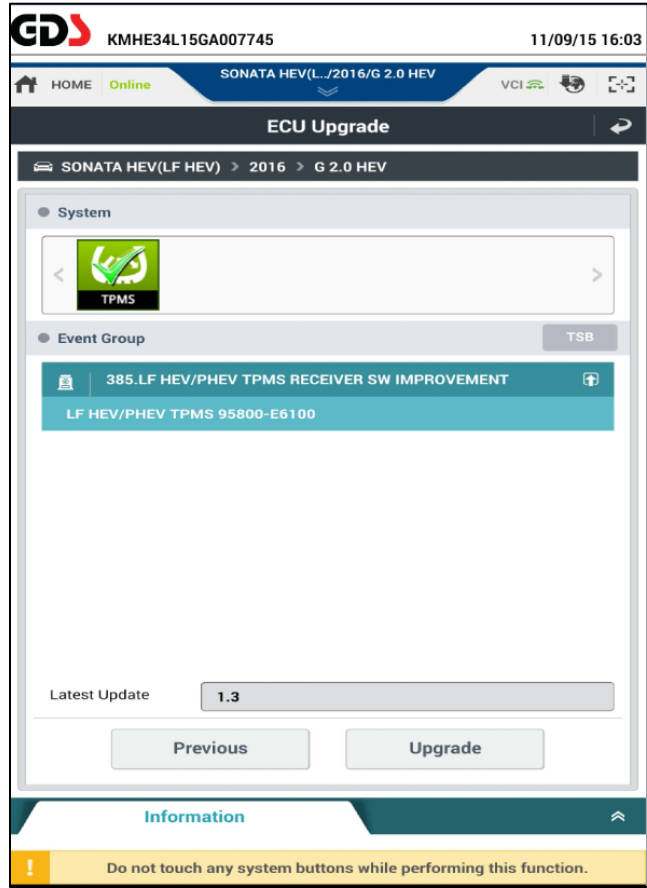
7. Re-install the multimedia fuse.
8. Click **Yes** to search for fault codes in all systems. Clear any DTCs found.



9. Complete the procedure by performing "Vehicle Name Writing" and "Register Sensor" processes in the TPMS system from the S/W Management screen.

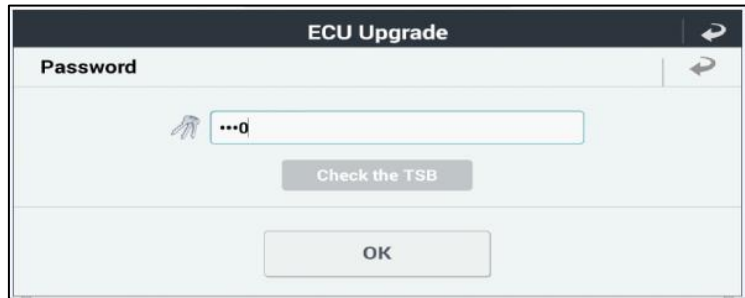
#### **GDS Mobile Procedure: Manual Mode**

1. Starting from the ECU Upgrade menu, select **MANUAL MODE**.
2. Select **TPMS** system, and select **Event #385. LF HEV/PHEV TPMS RECEIVER SW IMPROVEMENT**. Verify upgrade ROM ID according to the ROM ID Table on page 1. Click **Upgrade** to continue.



3. Input the appropriate password according to the table below, then click **OK**.

MENU	PASSWORD
LF HEV TPMS 95800-E6100	<b>6100</b>



4. Read the caution note, then click **OK** to continue.
5. ECU Upgrading graph will display in two parts. After ECU Upgrading...2/2 reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again. Click **OK** to continue.
6. Click **OK** after “ECU Upgrade has successfully finished” message is displayed.
7. Read note that instructs to perform “Vehicle Name Writing” and “Register Sensor” processes.

8. Re-install the multimedia fuse.
9. Click **Yes** to search for fault codes in all systems. Clear any DTCs found.
10. Complete the procedure by performing "Vehicle Name Writing" and "Register Sensor" processes in the TPMS system from the S/W Management screen.