







EPB UPGRADE - DH, DM/NC EPB S/W IMPROVEMENT

English

HFE16-41-E010-DHDMNC | Field Fix
57900F00

2016-06-07

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Гр./Сист./Комп.	Тормозная система / Система стояночного тормоза / Electric Parking Brake (EPB)		
Модель	Passenger GENESIS(DH) 2014 (DH12) SANTAFE(DM) 2013 (DM12) GRAND SANTAFE(NC) 2014 (NC12)		
DTC		Симптом	
Модернизация ECU	[3136] 512.DH EPB S/W IMPROVEMENT   [3140] 513.DM/NC EPB S/W IMPROVEMENT  		



C40AFW01081 213.142 203 16

Description

This bulletin provides information related to the EPB (Electronic Parking Brake) software upgrade for GENESIS(DH), SANTAFE(DM) and GRAND SANTEFE(NC) vehicles.

- Symptom/Condition
 - EPB(Eletronic Parking Brake) may not be released with EPB MIL 'ON'.
 - *MIL : Malfunction illuminated lamp
- Countermeasure
 - Upgrade the new EPB S/W

Applicable Vehicle

- **Model** : GENESIS(DH), SANTAFE(DM) and GRAND SANTEFE(NC)
- **Applicable vehicle Production date range**
 - DH : From DEC. 01, 2013 To JUL. 31, 2015
 - DM : From MAY. 01, 2012 To AUG. 10, 2015
 - NC : From MAY. 01, 2013 To JUL. 31, 2015
- **Applicable vehicle Model VIN range**
 - DH : From JOB#1 to KMHGN41C1GU122431
 - DM : From JOB#1 to KMHSU81CBGU555259
 - NC : From JOB#1 to KMHSR81XDGU146599

[NOTE]

- To verify the vehicle is affected, be sure to check the version of the vehicle's control unit ROM ID with reference to the ROM ID Information Table mentioned below before attempting to upgrade the control unit software.
- If automatic upgrade fails, turn the ignition key OFF for about 10 seconds and then perform manual upgrade.
- After manual upgrade, Clear DTC(s) present.

Parts Information

■ ROM ID Information table

VEHICLE	EPB P/N	OLD S/W version	NEW S/W version
DH	59700-B1500	1.1 / 1.2 / 1.4 / 1.6	1.8
DMNC	59700-2W600 (2WD) 59700-2W800 (4WD)	1.1 / 1.2 / 1.3 / 1.4 / 1.5 / 1.7	1.B

Operation Code and Time

Model	OP Code	OP Name	OP Time	Nature	Cause
DH, DMNC	57900F00	EPB UPGRADE	0.2 MH	I3A	ZZ3

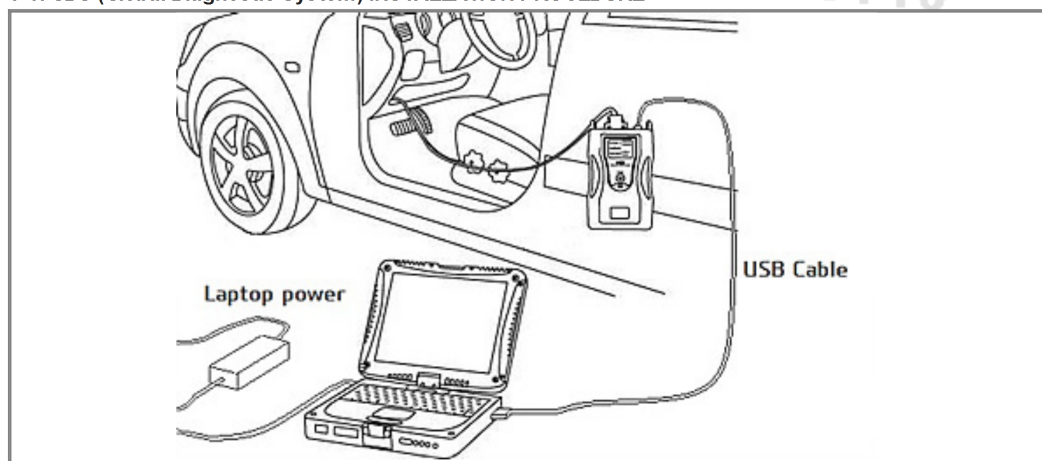
Service Procedure

■ CAUTIONS DURING CONTROL UNIT UPGRADE

- 1) Make sure the vehicle's battery has reasonable charge. If the vehicle has been in storage for days, run the engine to assure an adequate battery charge state for reliable upgrade results.
- 2) Turn off all lamps (Do not leave head lamp switch in auto mode.) and all accessories (including heater, A/C, blower, radio, seat warmer, defroster, etc.), do not allow the battery to be discharged during upgrade.
- 3) Perform upgrade with the ignition switch in the ON position.
- 4) Be careful not to disconnect any cables connected to the vehicle or scan tool during upgrade.
- 5) Do not start the engine during upgrade.
- 6) Do not turn off the ignition switch during upgrade.

1. CONTROL UNIT UPGRADE PROCEDURE USING THE GDS

1-1. GDS (Global Diagnostic System) INSTALLATION PROCEDURE



- 1) Connect external power to the GDS laptop.

[NOTE]

- Make sure that the external power be connected to GDS not to terminate the upgrade program because of dead battery while performing ECU upgrade.

- 2) Connect the USB cable between VCI and GDS.

[NOTE]

- When performing the upgrade, GDS is NOT available for wireless communication between VCI and GDS to conduct stable data transfer.

- 3) Connect the VCI DLC connector to diagnostic terminal at vehicle side. (It is located under the driver side instrument panel)
- 4) Turn on the VCI and set ignition switch ON

[NOTE]

- Do not start the engine.

1-2. AUTOMATIC UPGRADE PROCEDURE USING GDS

- 1) Choose VIN or ECU Upgrade on the initial screen.
- 2) Enter the vehicle information by entering the vehicle's VIN or selecting the vehicle model, model year, engine/fuel type and ENGINE as the system and then click OK.

#512 DH






GDS VIN Search

To search vehicle, Please insert VIN Search Auto VIN Clear Previous Vehicle

GENESIS(DH) **2016** **G 3.0 GDI**

System 

Select System Select All **Selected System** Clear All

 ENGINE	 A/T	 ESP	 EPB	 AIRBAG	 AIR/CON
 SET 80km/h SCC	 EPS	 ECS	 4WD	 PSB	 TPMS
 SPAS	 LKAS	 BSD	 AHLS	 AVM	 PGS

Electric Parking Brake

Group **Symptom**

Fault Code Searching OK Cancel

#513 DM/NC

GDS VIN Search

To search vehicle, Please insert VIN Search Auto VIN Clear Previous Vehicle

SANTAFE(DM) **2016** **G 2.4 GDI**

System 

Select System Select All **Selected System** Clear All

 ENGINE	 A/T	 ABS/ESP	 EPB	 AIRBAG	 AIR/CON
 SET 80km/h SCC	 EPS	 4WD	 TPMS	 SPAS	 LDWS
 BSD-L	 BSD-R	 AHLS	 AFLS	 AVM	 AHS

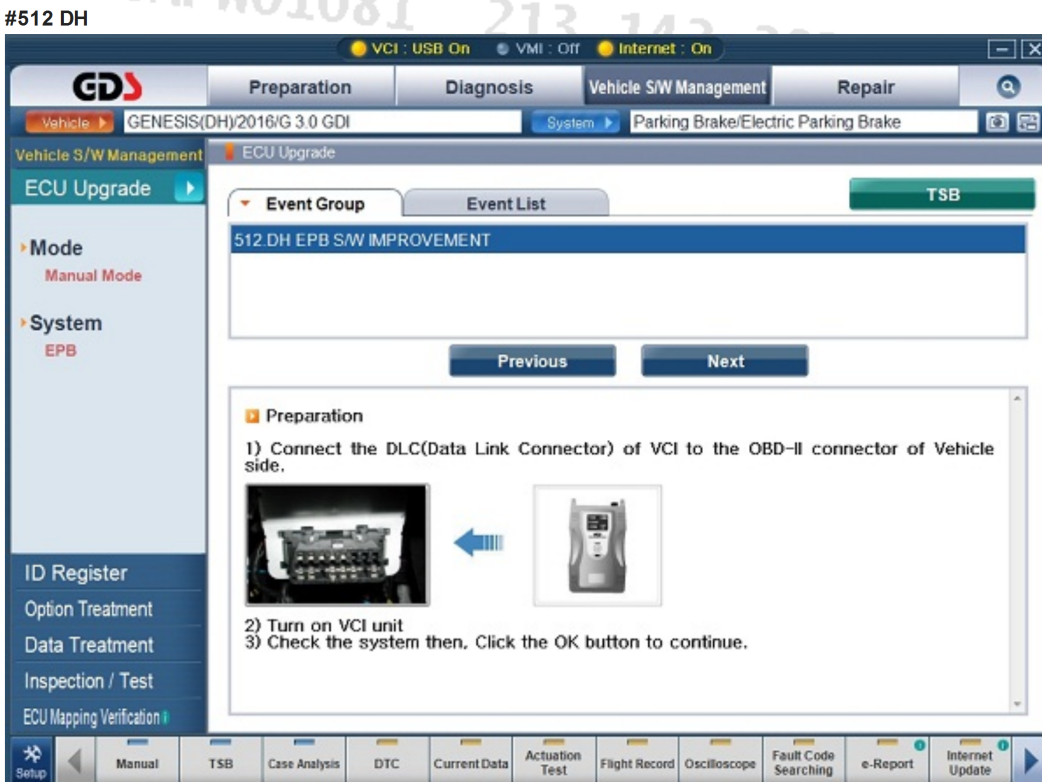
Electric Parking Brake

Group **Symptom**

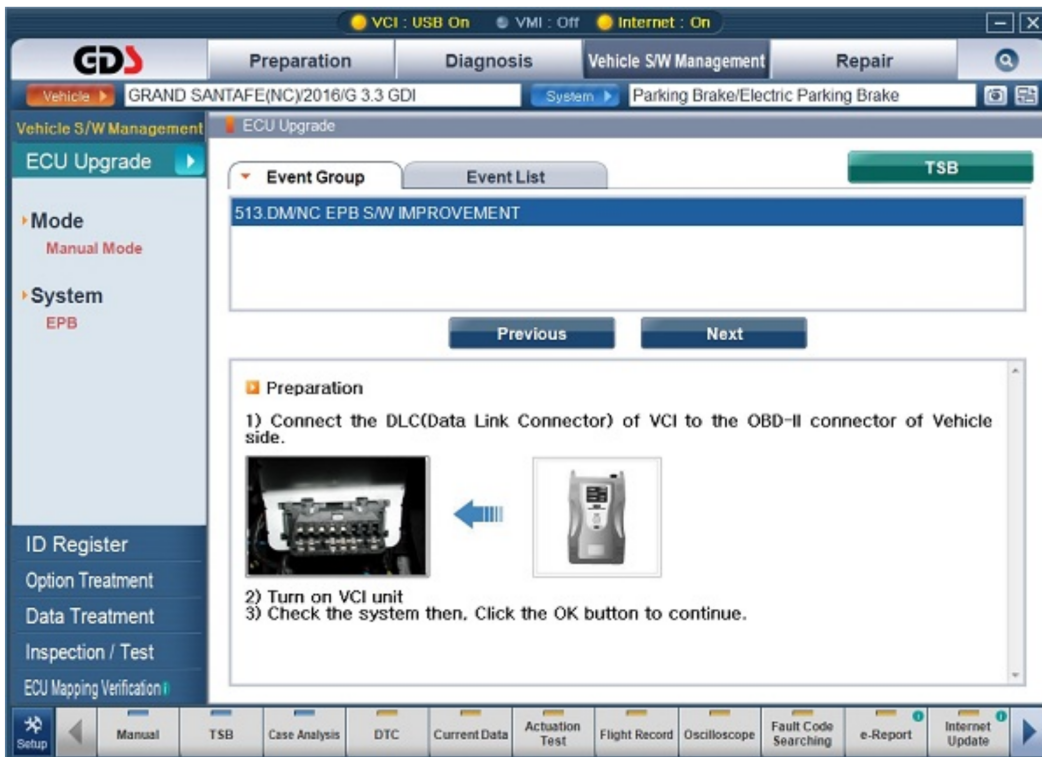
Fault Code Searching OK Cancel



- 3) Select ECU Upgrade on the initial screen after entering the vehicle information.
- 4) Select Auto Mode then ENGINE in the left ECU Upgrade column.
- 5) Read Preparation and click OK.
- 6) The GDS will read the vehicle's ROM ID.
- 7) After the Current ROM ID is displayed, select the Upgrade Event, "512. DH EPB S/W IMPROVEMENT" or "513. DM/NC EPB S/W IMPROVEMENT"



#513 DM/NC



8) After clicking the Upgrade button, read information then click OK.

9) The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results.
Click OK if the results indicate Voltage is OK.

[NOTE]

- If voltage is below 12 volts, click Cancel and then run the engine to assure an adequate battery charge state for reliable upgrade results.

10) Upgrade will begin and the progress of the upgrade will appear on the bar graph.

11) Upgrade will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then click OK to continue according to information displayed on the screen.

12) Click OK on the final screen, which indicates upgrade is complete.

13) Check if any incidental Diagnostic Trouble Codes (DTC) has been created by the upgrade and clear the DTC (s) present.

14) Start the engine to confirm proper operation of the vehicle.

1-3. MANUAL UPGRADE PROCEDURE

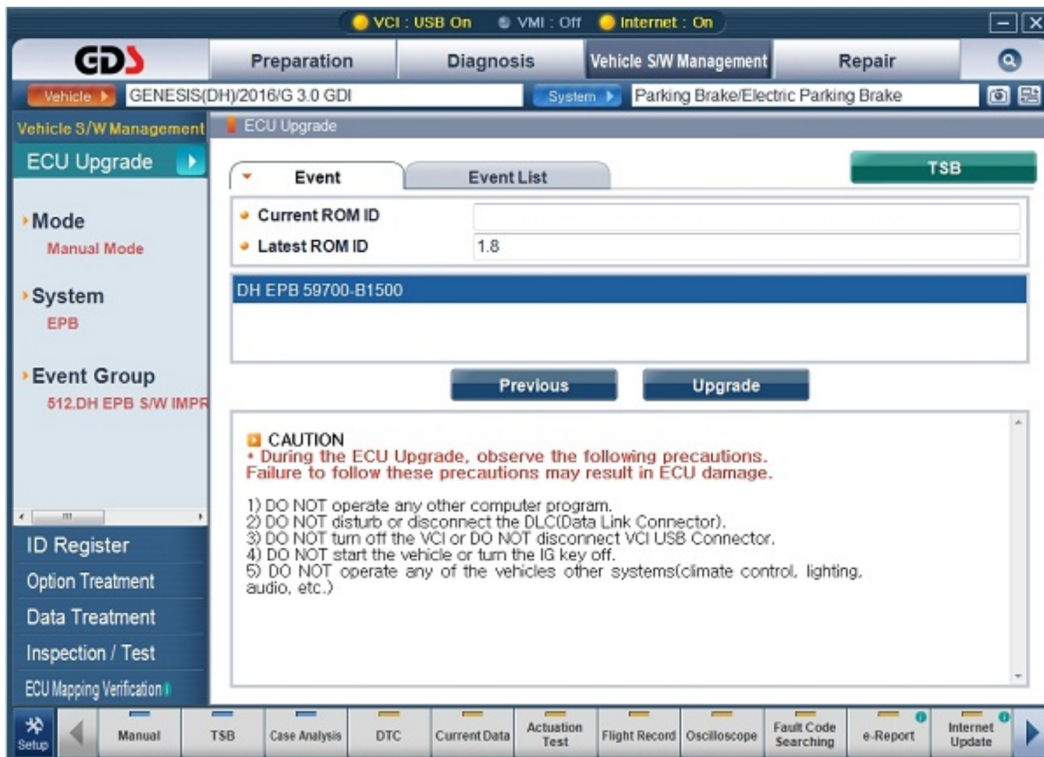
[NOTE]

- Manual update should be performed only when automatic update fails.

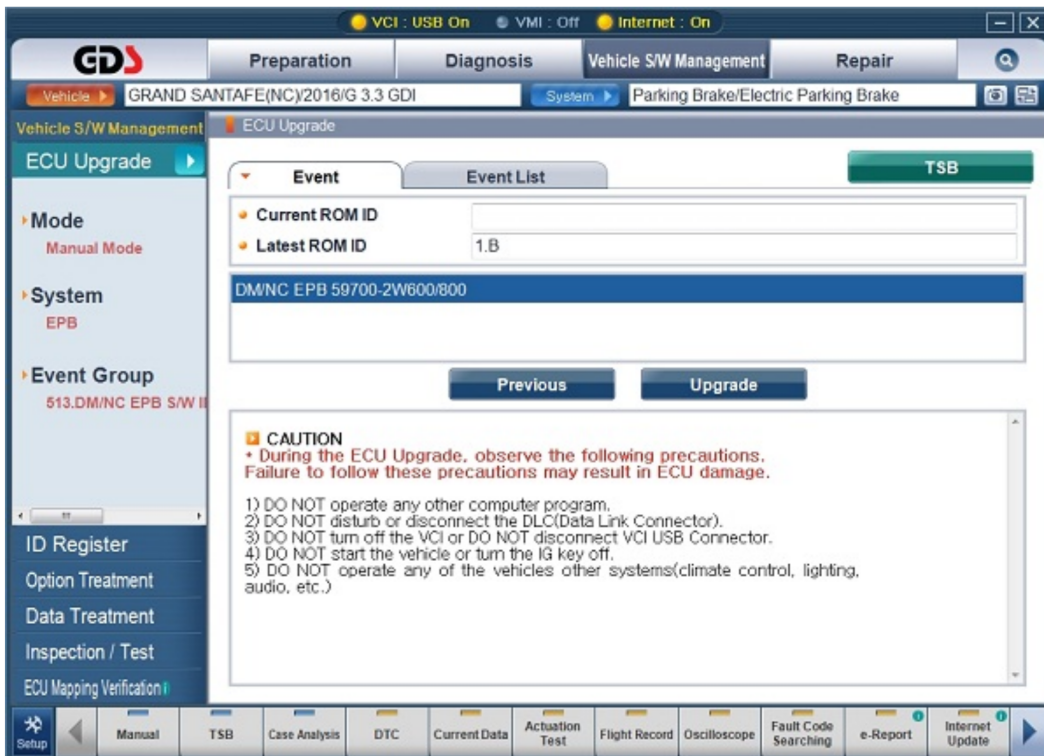
- If automatic update fails, turn the ignition key OFF for about 10 seconds, place it back in the ON position to reset the control unit before performing manual update.

1) Within the ECU Upgrade screen, select Manual Mode in the left column, then select Upgrade Event #512 or #513. Select the appropriate control unit part number with reference to the above ROM ID Information Table and click OK.

#512 DH



#513 DM/NC



2) Enter the appropriate password from the below table then click OK.

#512 DH

MENU	PASSWORD
DH EPB 59700-B1500	1500

#513 DM/NC

MENU	PASSWORD
DM/NC EPB 59700-2W600/800	2800

3) The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results.

Click OK if the results indicate Voltage is OK.

[NOTE]

- If voltage is below 12 volts, click Cancel and then run the engine to assure an adequate battery charge state for reliable upgrade results.

- 4) Upgrade will begin and the progress of the upgrade will appear on the bar graph.
- 5) Upgrade will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then click OK to continue according to Information displayed on the screen.
- 6) Click OK on the final screen, which indicates upgrade is complete.
- 7) Check if any incidental Diagnostic Trouble Codes (DTC) has been created by the upgrade and clear the DTC (s) present.
- 8) Start the engine to confirm proper operation of the vehicle.

2. CONTROL UNIT UPGRADE PROCEDURE USING THE GDS Mobile

2-1. GDS-Mobile INSTALLATION PROCEDURE



- 1) Connect the VCI-II into the vehicle's DLC connector under the driver side instrument panel and check to turn the VCI-II on.



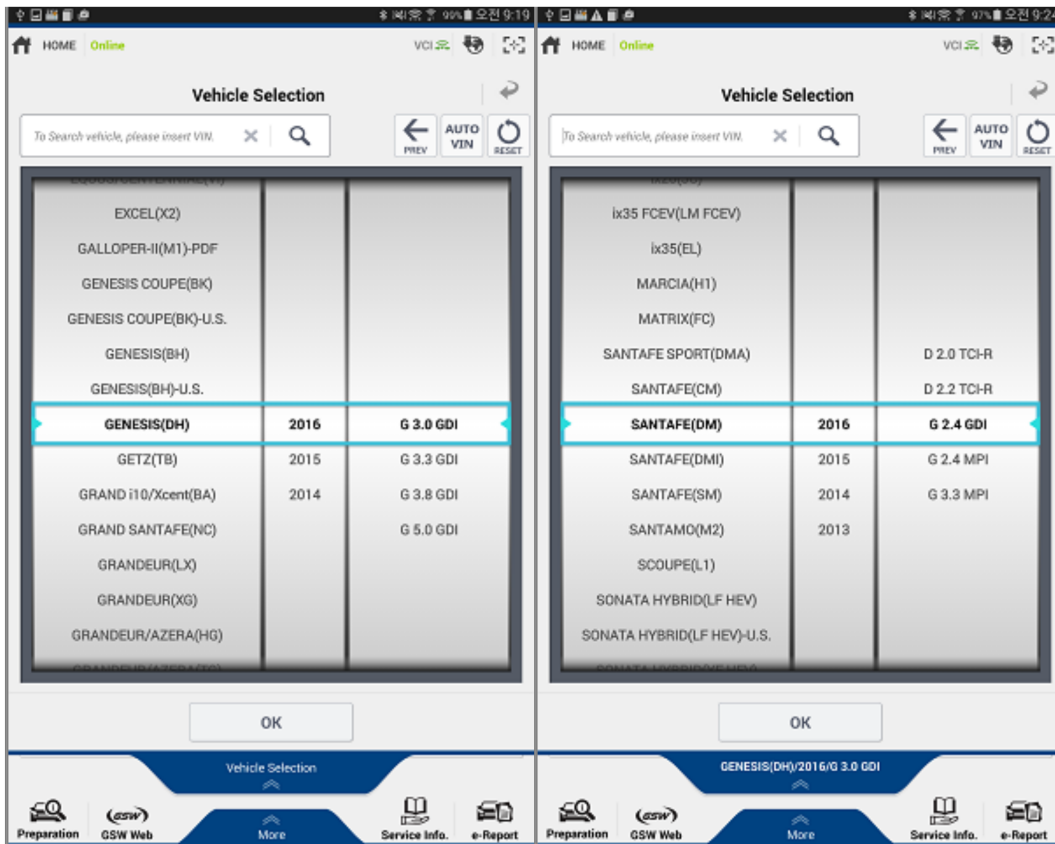
[NOTE]

- ECU upgrade function on GDS-Mobile is basically operating in wireless communication as Wi-Fi direct. Also it's possible to be performing via USB cable between Tablet PC and VCI-II.
- Before start ECU upgrade, must make certain that the battery of Tablet PC is sufficient charged.

2-2. AUTOMATIC UPGRADE PROCEDURE

- 1) Select **ECU Upgrade** on the initial screen after entering the vehicle information.
- 2) Select **Auto Mode** and then tab **ENGINE** in the System.

#512 DH	#513 DM/NC



3) Read information and tab **ID Check**.

4) The GDS-Mobile will read the **Currently in Vehicle**.

5) Select the upgrade event, "**512. DH EPB S/W IMPROVEMENT**" or "**513. DM/NC EPB S/W IMPROVEMENT**" and touch **Upgrade**.

6) The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results. Click OK if the results indicate Voltage is OK.

[NOTE]

- If voltage is below 12 volts as below figure, click Back and then run the engine to assure an adequate battery charge state for reliable upgrade results.



7) Upgrade (1/2) will begin and the progress of the upgrade will appear on the bar graph.

8) Upgrade (1/2) will occur until 100% is reached on the bar graph.

9) Upgrade (2/2) will begin and the progress of the upgrade will appear on the bar graph.

10) Upgrade (2/2) will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then tab **OK** to continue according to **Information** displayed on the screen.

11) Tab **OK** on the final screen, which indicates upgrade is complete.

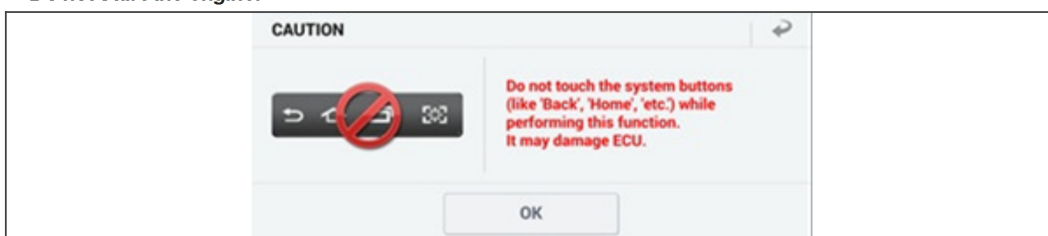
12) Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade and clear the DTC (s) present.

13) Start the engine to confirm proper operation of the vehicle.

[CAUTION]

- Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing ECU Upgrade.

- Do not start the engine.

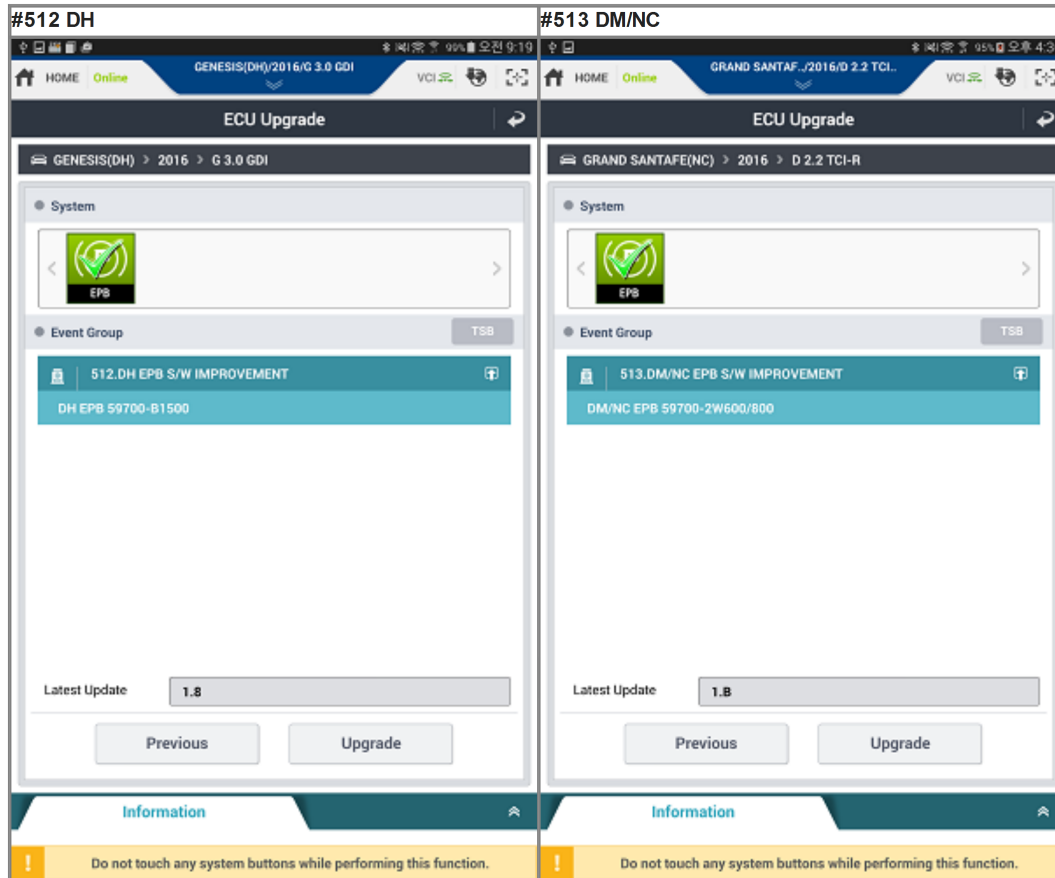


2-3. MANUAL UPGRADE PROCEDURE

[NOTE]

- The manual upgrade should be performed only when the automatic upgrade fails.
- If automatic upgrade fails, turn the ignition key OFF for about 10 seconds, place it back in the ON position to reset the control unit before performing manual upgrade.

- 1) Within the ECU Upgrade screen, select Manual Mode, then select Upgrade Event #512 or #513.
- 2) Select the appropriate control unit part number with reference to the above ROM ID Information Table and tab OK.



- 3) Enter the appropriate password from the below then touch OK.

#512 DH

MENU	PASSWORD
DH EPB 59700-B1500	1500

#513 DM/NC

MENU	PASSWORD
DM/NC EPB 59700-2W600/800	2800

- 4) The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results. Click OK if the results indicate Voltage is OK.

[NOTE]

- If voltage is below 12 volts as below figure, click Back and then run the engine to assure an adequate battery charge state for reliable upgrade results.



- 5) Upgrade (1/2) will begin and the progress of the upgrade will appear on the bar graph.
- 6) Upgrade (1/2) will occur until 100% is reached on the bar graph.
- 7) Upgrade (2/2) will begin and the progress of the upgrade will appear on the bar graph.
- 8) Upgrade (2/2) will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then tab OK to continue according to Information displayed on the screen.
- 9) Tab OK on the final screen, which indicates upgrade is complete.



- 10) Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade and clear the DTC (s) present.
- 11) Start the engine to confirm proper operation of the vehicle.

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