	GROUP	NUMBER
⊘ HYUNDAI | NEW THINKING. NEW POSSIBILITIES. **Technical Service Bulletin**	**CAMPAIGN**	**16-01-024**
	DATE	MODEL(S)
	MAY 2016	**SONATA (LFa)**

SUBJECT:	2016MY SONATA ELECTRIC PARKING BRAKE (EPB) LOGIC UPDATE (SERVICE CAMPAIGN TFF)

⟡ **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: 2016MY Sonata vehicles equipped with the optional Electric Parking Brake (EPB) incorporate a feature to measure the clearance between the brake pad and rotor assemblies. If the parking brake is not applied at least once within a 1,000 km period, self-check software will activate the rear brake pads (apply/release) after the vehicle is placed in Park and the ignition is turned off. Due to the system's logic, it is possible for the rear brake pads to remain in contact with the rotors after this verification process, and the rear brakes may "drag" during the next drive cycle requiring the customer to release the parking brake. This bulletin describes the service procedure to update the EPB control logic (controlled by the electronic stability control (ESC) module) to ensure the EPB is left in the correct state following the clearance verification process.
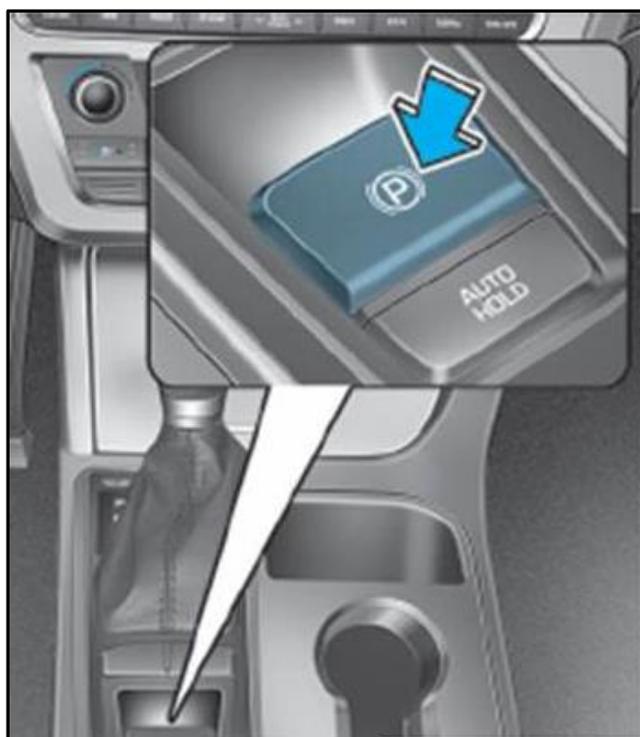
Applicable Vehicles: Certain 2016 Sonata (LFA) vehicles.

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

GDS Information:

Event #	Description
405	LFA ESC CONTROL LOGIC IMPROVEMENT

ROM ID Information Table:

Model	Model Year	HECU Part Number	Old ROM ID	New ROM ID
LFa Sonata	16MY	58920-C2600	1.4 1.5	1.6

Warranty Information:

Model	Op. Code	Operation	Op. Time
LFa	60CA02R0	ESC Upgrade	0.3 M/H

Service Procedure:

NOTICE

This Service Procedure is performed using PC-based GDS, or GDS-mobile. For update information and general precautions, please refer to TSBs #15-GI-001 and #15-GI-002.

PC-Based GDS Procedure: AUTO MODE

1. From the ECU Upgrade screen, select **AUTO MODE** and click **Next**.
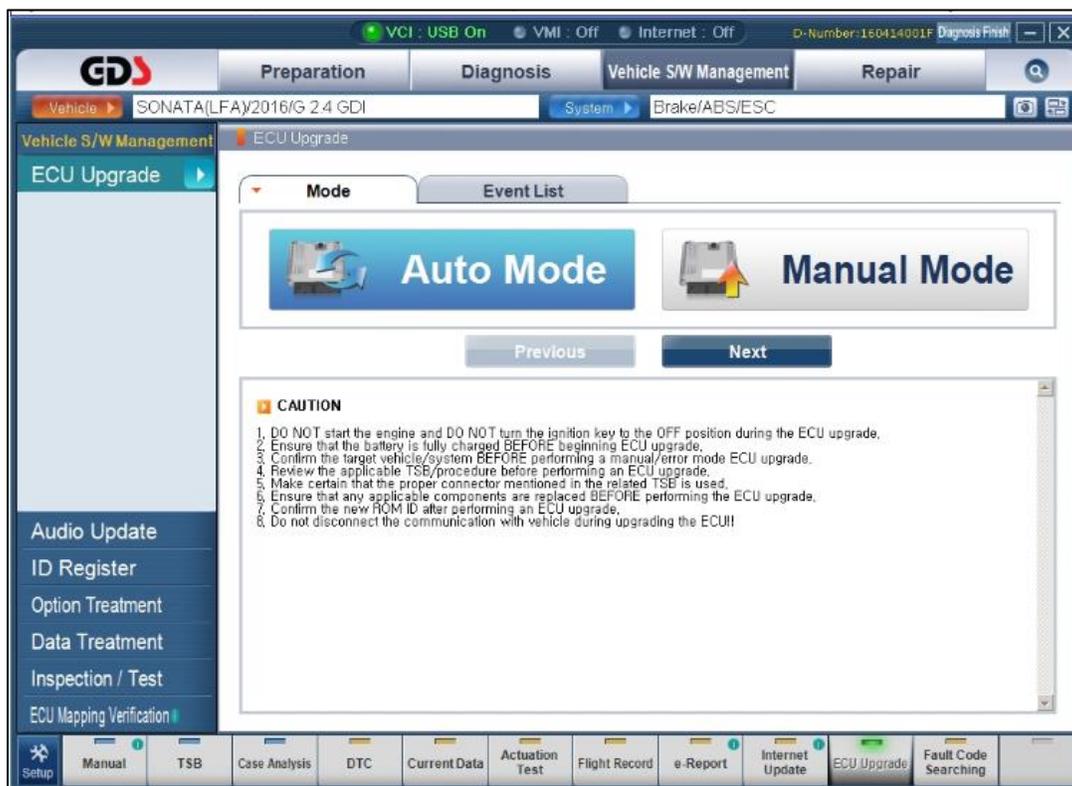
2. Select **ABS/ESC** for System, and click **OK**.
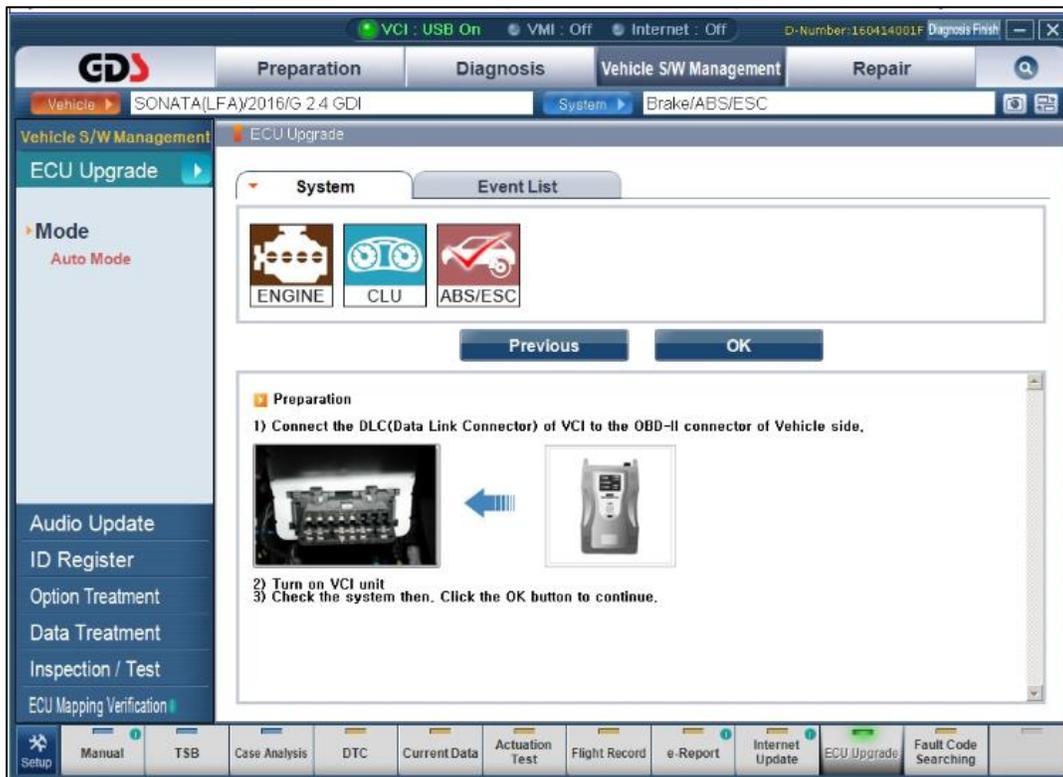
3. After the Current ROM ID is displayed, select the upgrade event "**405.LFA ESC CONTROL LOGIC IMPROVEMENT**." Click **Upgrade** to continue.
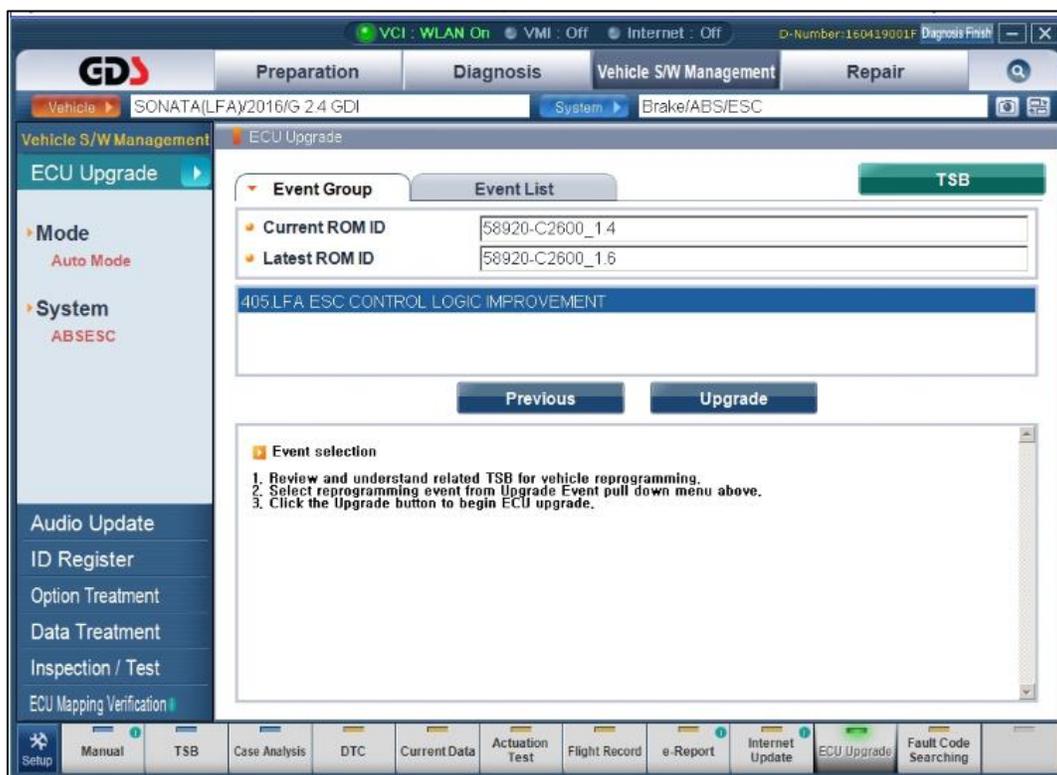
4. After confirming USB cable is connected between VCI and laptop PC, and that the vehicle's battery has adequate charge, the update will begin. After update progress reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again.

5. Update completion confirmation window will be displayed, along with ROM ID.
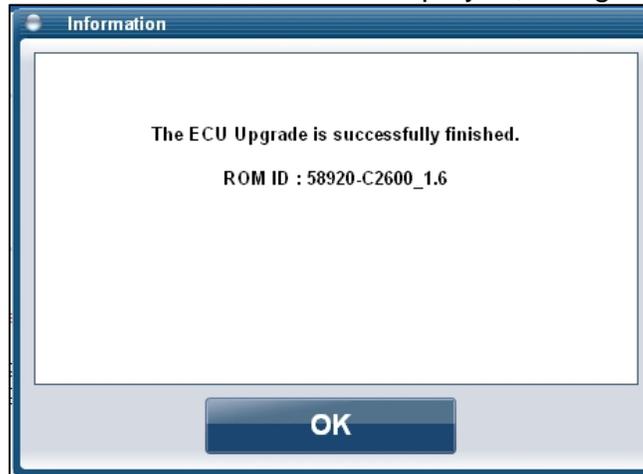
6. Check for any incidental diagnostic trouble codes (DTCs) and clear any present.

7. Start the engine to confirm proper operation of the vehicle.

PC-Based GDS Procedure: MANUAL MODE

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

2. Select **ABS/ESC** for System, and click **Next**.

3. Select the upgrade event "**405.LFA ESC CONTROL LOGIC IMPROVEMENT**" and click **Next**.
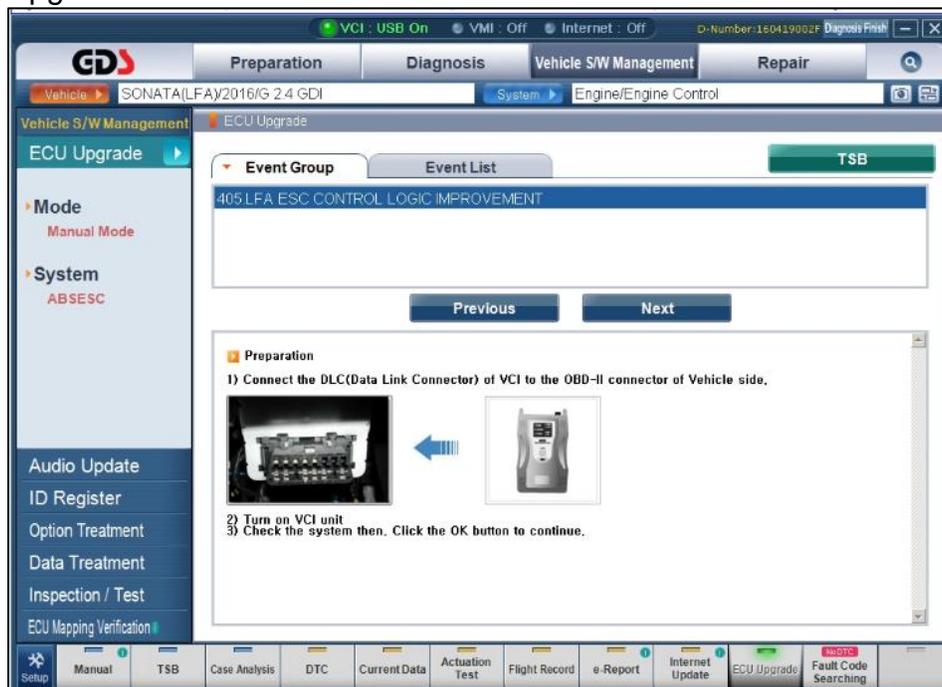
4. GDS will display latest ROM ID. Select "**LFA ESC 58920-C2600**", then click **Upgrade**.
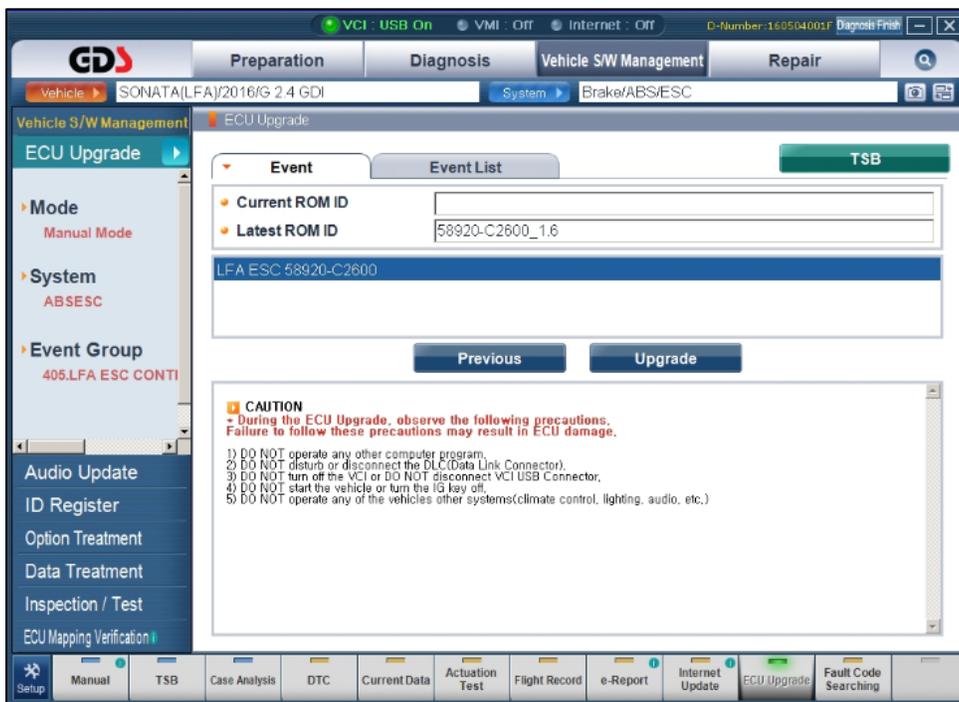
5. A prompt for password will be displayed. Input the password according to the table below.

MENU	PASSWORD
LF ESC 58920-C2600	**2600**

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. Check for any incidental diagnostic trouble codes (DTCs) and clear any present.

11. Start the engine to confirm proper operation of the vehicle.

GDS Mobile Procedure: Auto Mode

1. Starting from the ECU Upgrade menu, select **AUTO MODE.**
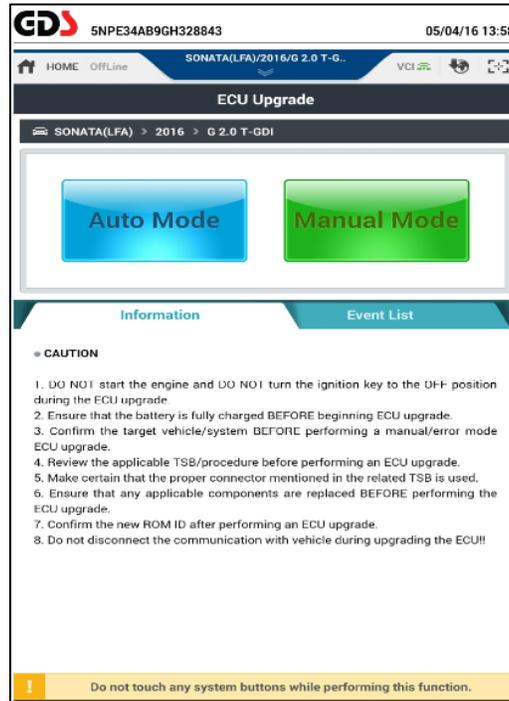
2. Select **ABS/ESC** system and click **ID Check.** Current ROM ID will be displayed along with update ROM ID. Select "**405.LFA ESC CONTROL LOGIC IMPROVEMENT**." Verify ROM IDs according to the ROM ID Table on page 1. Click **Upgrade** to continue.

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3. Read the caution note, then click **OK** to continue.
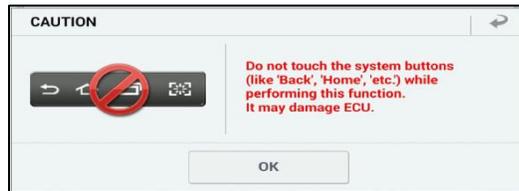
4. ECU Upgrading graph will display in two parts. After ECU Upgrading…(2/2) reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again. Click **OK** to continue.
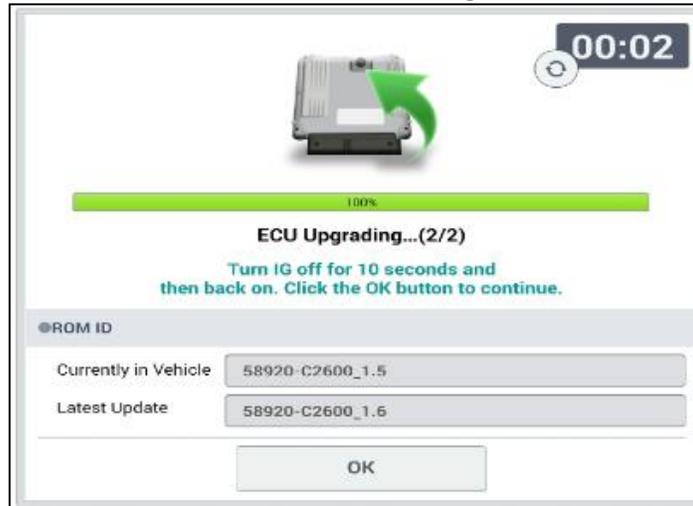
5. Click **OK** after "ECU Upgrade has successfully finished" message is displayed.
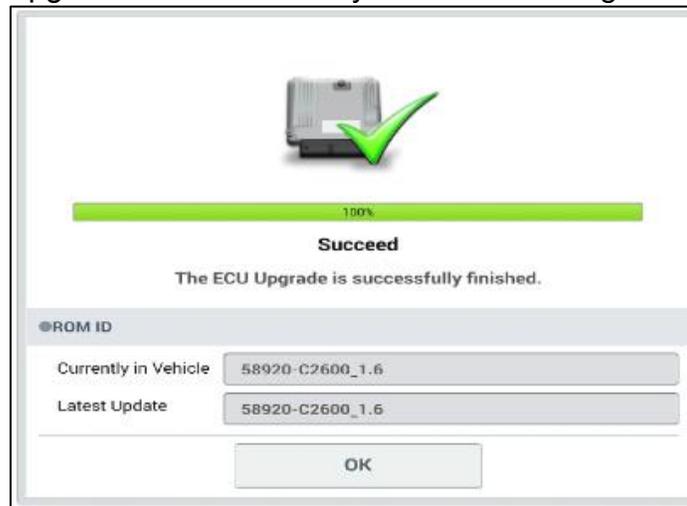
6. Click **Yes** to search for fault codes in all systems. Clear any DTCs found.

7. Start the engine to confirm proper operation of the vehicle.

GDS Mobile Procedure: Manual Mode

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

2. Select **ABS/ESC** system, and select "**405.LFA ESC CONTROL LOGIC IMPROVEMENT."**
   Verify upgrade ROM ID according to the ROM ID Table on page 1. Click **Upgrade** to continue.
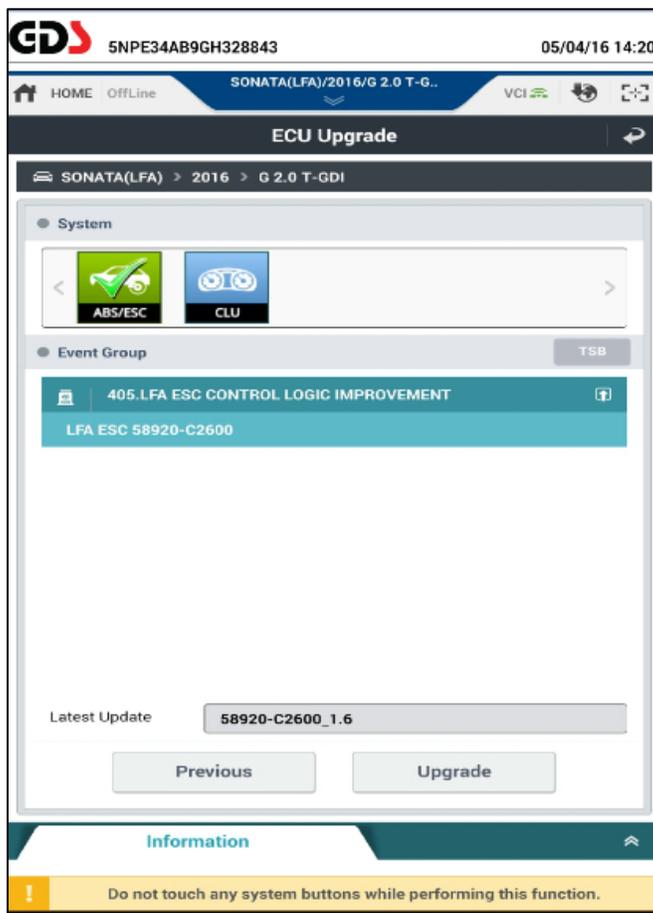
3. Input the appropriate password according to the table below, then click **OK.**

MENU	PASSWORD
LF ESC 58920-C2600	**2600**
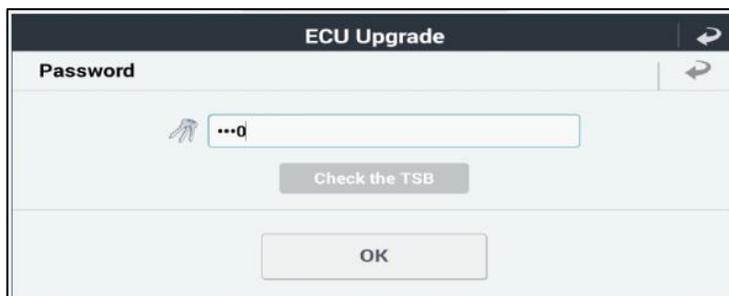
4. Read the caution note, then click **OK** to continue.

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. Click **Yes** to search for fault codes in <u>all systems</u>. Clear any DTCs found.

8. Start the engine to confirm proper operation of the vehicle.