



HYUNDAI

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Technical Service Bulletin

GROUP

CAMPAIGN

NUMBER

15-01-041

DATE

OCTOBER 2015

MODEL(S)

LFa SONATA

SUBJECT: LFA SONATA INSTRUMENT CLUSTER ABS WARNING LAMP ILLUMINATION LOGIC UPDATE (RECALL CAMPAIGN 134)

★ IMPORTANT

*** Dealer Stock and Retail Vehicles ***

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo and rental vehicles prior to placing them into customer use 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 instrument cluster software on certain Sonata (LFa) vehicles. Affected vehicles (those equipped with supervision gauge cluster, both Base and Sport) currently do not illuminate the ABS warning lamp. The software revises the logic to illuminate the ABS warning lamp at vehicle ignition on, or if any ABS system malfunction is detected.



Base Supervision
Instrument Cluster



Sports Supervision
Instrument Cluster

Applicable Vehicles: Certain 2015~2016MY LFa Sonata vehicles equipped with supervision cluster, produced from May 28, 2014 ~ August 21, 2015

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

Parts Information: ROM ID Table

Model Year	Cluster	Part Number	Old ROM ID	New ROM ID
2015	Base supervision	94011-C2000	A.06 1.01	1.02
		94011-C2100		
		94012-C2000		
		94012-C2100		
		94013-C2000		
	Sports supervision	94031-C2000	A.05 1.00	1.01
94032-C2000				
2016	Base supervision	94011-C2200	2.02	2.03
		94012-C2200		
		94013-C2100		
	Sports supervision	94031-C2100		
		94032-C2100		
		94033-C2100		

GDS Information:

Event #	Description
380	LFA Cluster Warning Lamp (ABS) On Logic Improvement

Warranty Information:

Model	Op. Code	Operation	Op. Time
LFa Sonata	51CA19R0	Cluster Upgrade	0.3 M/H

NOTE: Submit Claim on Campaign Claim Entry Screen

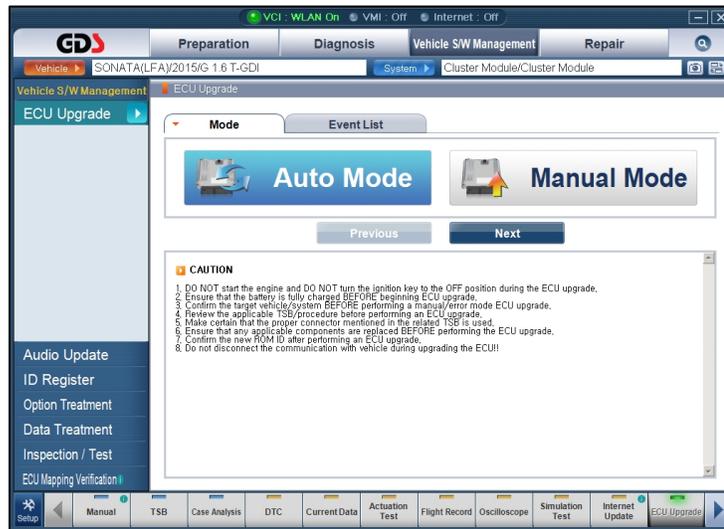
Service Procedure:

NOTICE

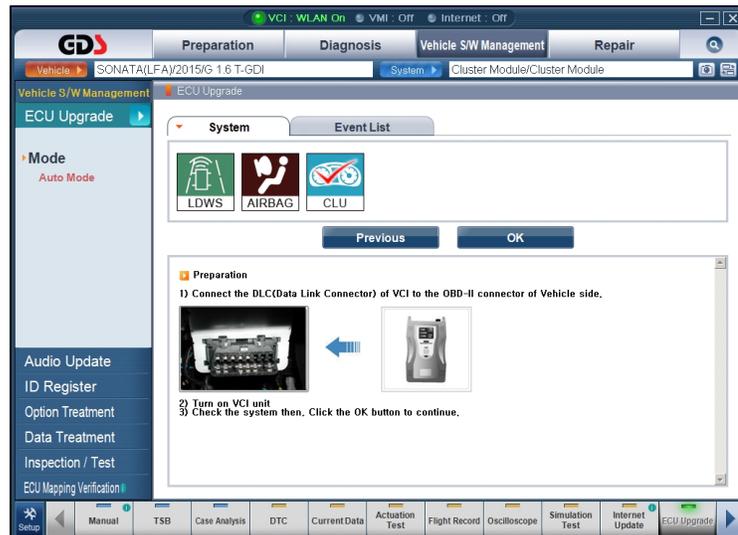
This Service Procedure is performed using PC-based GDS, or GDS-mobile. For update information and general precautions, please refer to TSBs #15-GI-001 and #15-GI-002.

PC-Based GDS Procedure: AUTO MODE

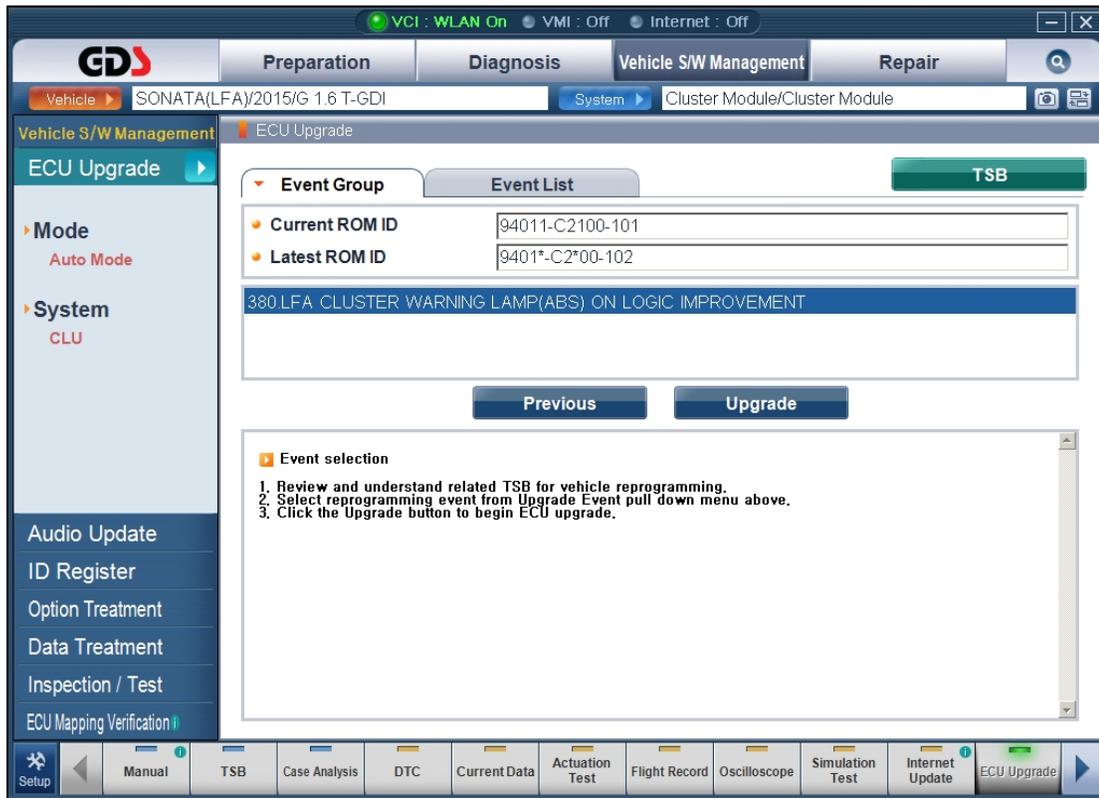
1. From the ECU Upgrade screen, select **AUTO MODE** and click **Next**.



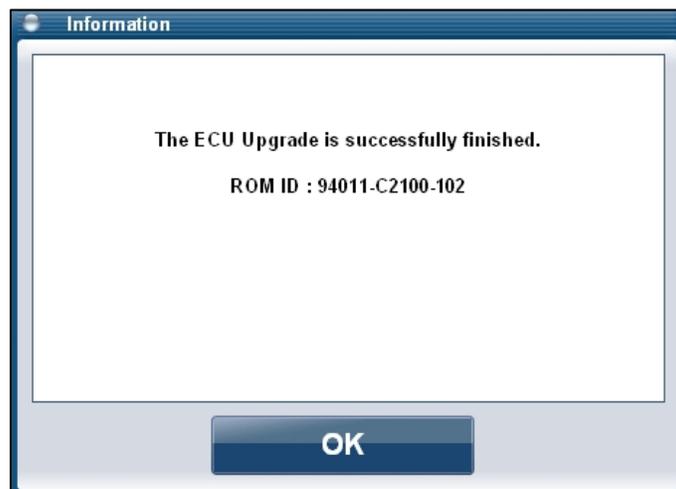
2. Select **CLU** (cluster) for System, and click **OK**.



- ROM ID will be read and displayed. Confirm current and latest ROM IDs are applicable to the vehicle according to the ROM ID Table on page 2. Select event # **380. LFA Cluster Warning Lamp (ABS) On Logic Improvement**, then click **Upgrade**.



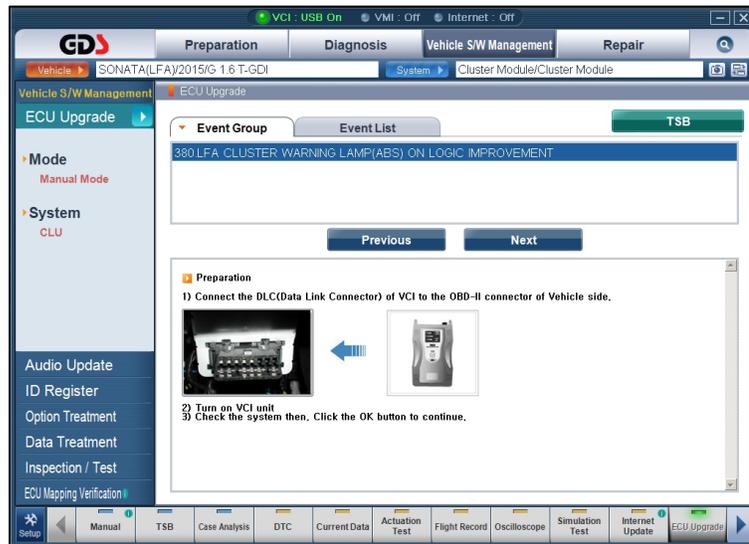
- After confirming USB cable is connected between VCI and laptop PC, and that the vehicle's battery has adequate charge, the update will begin. After update progress reaches 100%, turn the ignition **OFF** for 10 seconds, then back **ON** again.
- Update completion confirmation window will be displayed, along with ROM ID.



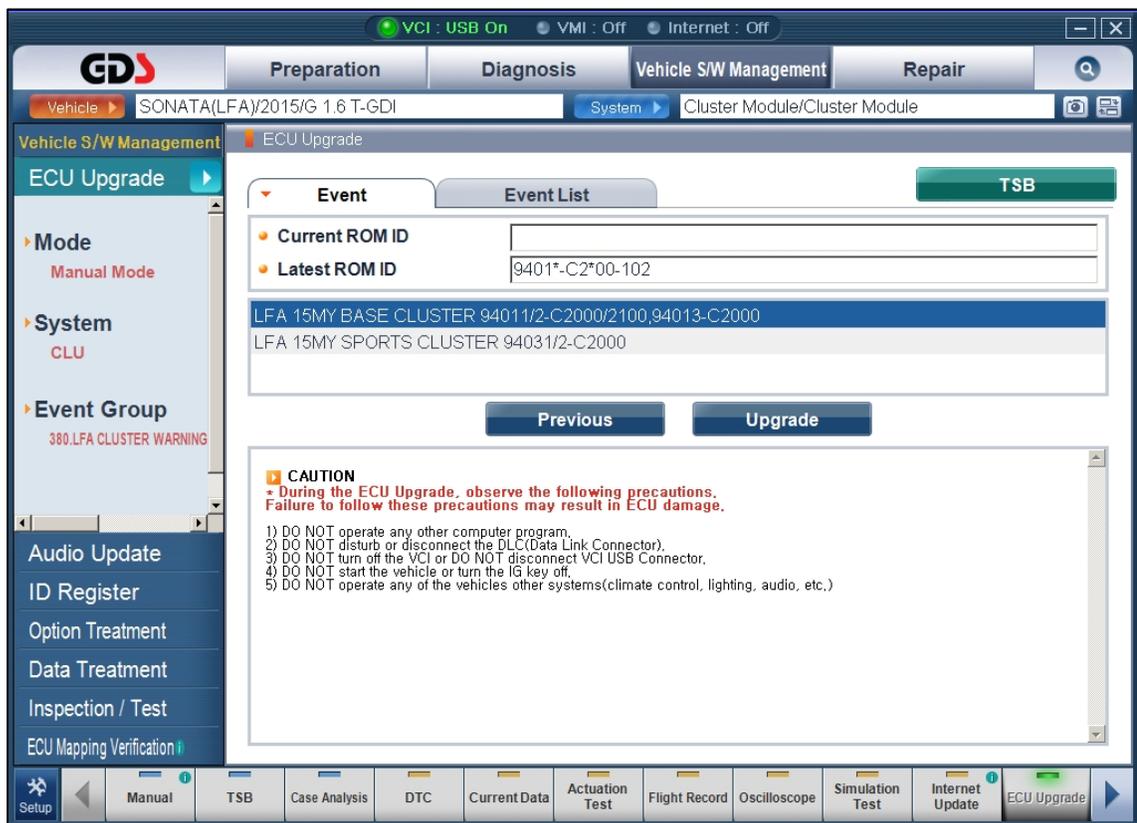
- Check for any incidental diagnostic trouble codes (DTCs) and clear any present.
- Start the engine to confirm proper operation of the vehicle.

PC-Based GDS Procedure: MANUAL MODE

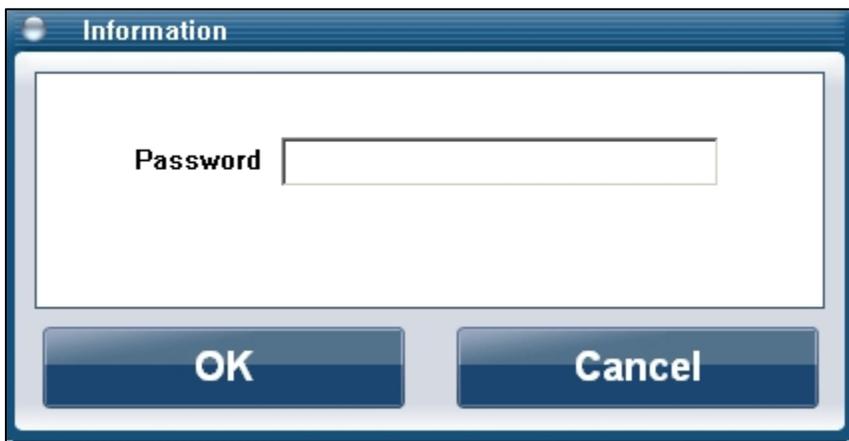
1. From the ECU Upgrade screen, select **MANUAL MODE** and click **Next**.
2. Select **CLU** for System, and click **Ok**.
3. Select the applicable event (**#380. LFA Cluster Warning Lamp (ABS) On Logic Improvement**) and click **Next**.



4. Select the applicable cluster type (base or sports). GDS will display latest ROM ID, to which CLU system will be upgraded. Confirm ROM ID is correct based on the ROM ID Table on page 2, then click **Upgrade**.



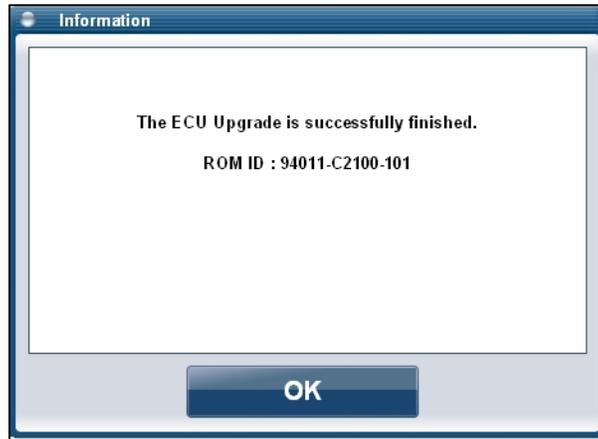
- A prompt for password will be displayed. Input the password according to the table below.



VEHICLE	PART NUMBERS	PASSWORD
15MY LFA BASE CLUSTER	94011-C2000	2000
	94011-C2100	
	94012-C2000	
	94012-C2100	
	94013-C2000	
15MY LFA SPORTS CLUSTER	94031-C2000	2001
	94032-C2000	
16MY LFA BASE CLUSTER	94011-C2200	2100
	94012-C2200	
	94013-C2100	
16MY LFA SPORTS CLUSTER	94031-C2100	2101
	94032-C2100	
	94033-C2100	

- After confirming the 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.

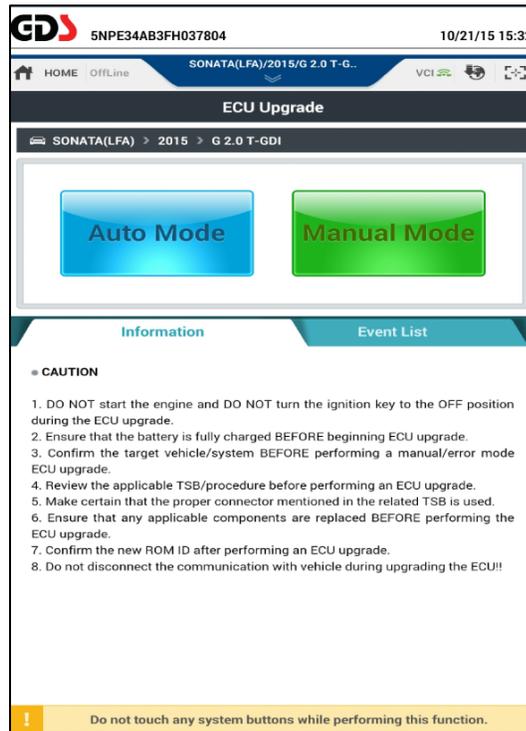
- Update completion confirmation window will be displayed, along with ROM ID.



- Check for any incidental diagnostic trouble codes (DTCs) and clear any present.
- Start the engine to confirm proper operation of the vehicle.

GDS Mobile Procedure: AUTO MODE

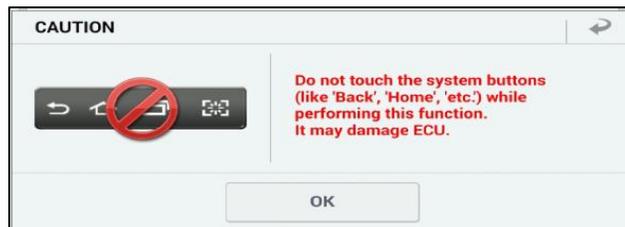
- Starting from the ECU Upgrade menu, select **AUTO MODE**.



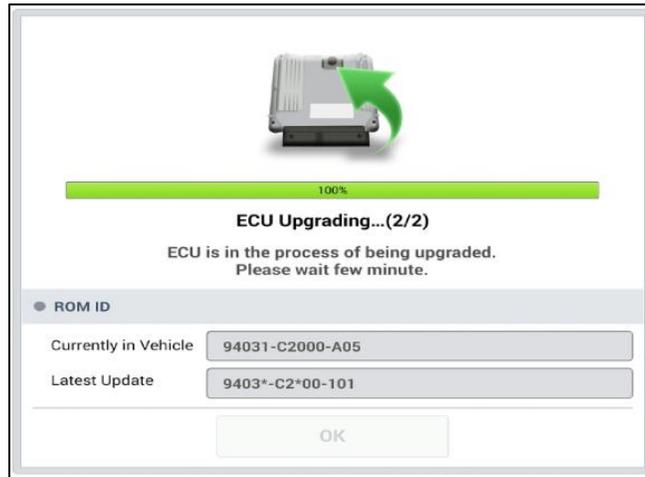
2. Select **CLU** system, and click **ID Check**. Select **Event #380. LFA CLUSTER WARNING LAMP (ABS) ON LOGIC IMPROVEMENT**. Current ROM ID will be displayed along with update ROM ID. Verify ROM IDs according to the ROM ID Table on page 2. Click **Upgrade** to continue.



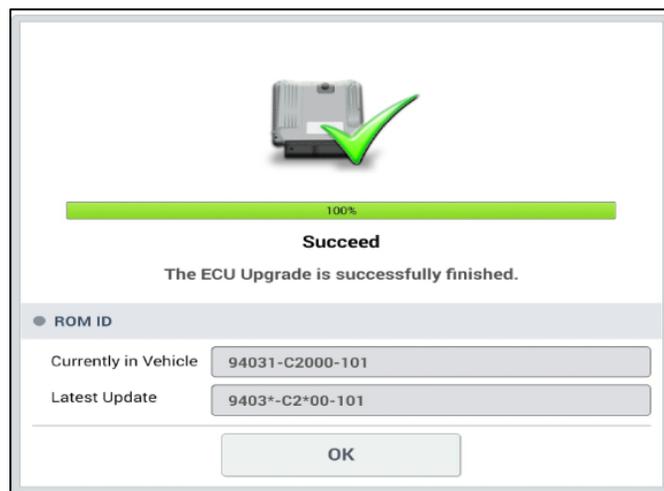
3. Read the caution note, and then click **OK** to continue.



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 is successfully finished" message is displayed.



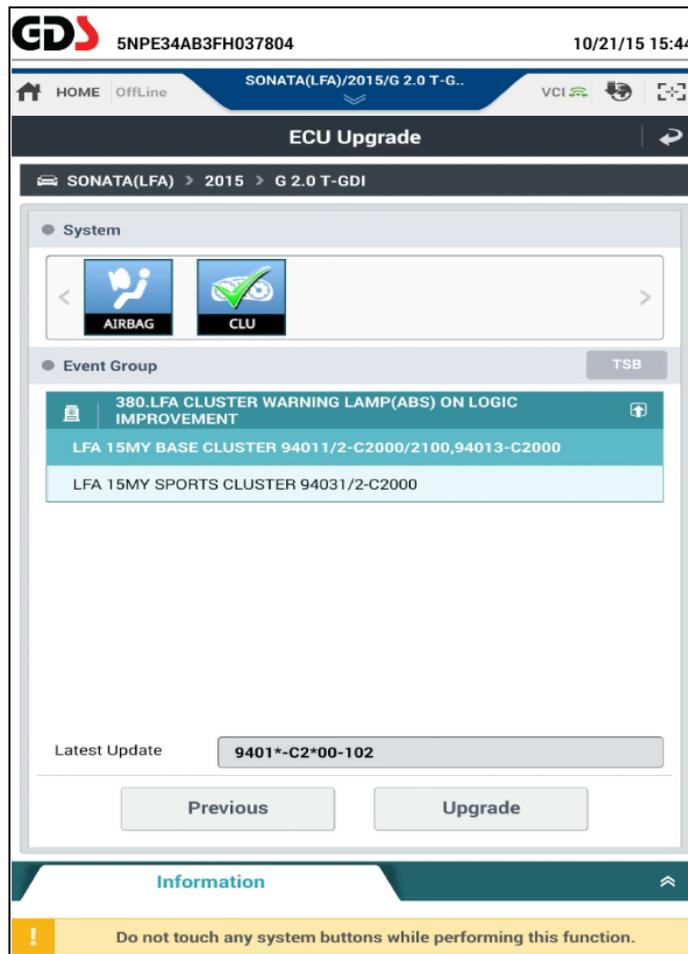
6. Click **Yes** to search for fault codes in all systems. Clear any DTCs found.



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

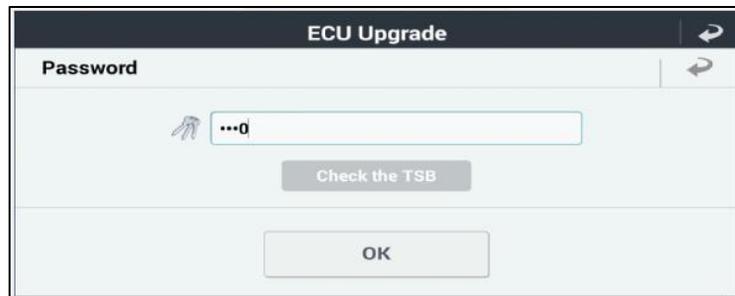
GDS Mobile Procedure: MANUAL MODE

1. Starting from the ECU Upgrade menu, select **MANUAL MODE**.
2. Select **CLU** system, **Event #380. LFA CLUSTER WARNING LAMP (ABS) ON LOGIC IMPROVEMENT**. Select the applicable cluster type (base or sports). Verify upgrade ROM ID according to the ROM ID Table on page 2. Click **Upgrade** to continue.



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

VEHICLE	PART NUMBERS	PASSWORD
15MY LFA BASE CLUSTER	94011-C2000	2000
	94011-C2100	
	94012-C2000	
	94012-C2100	
	94013-C2000	
15MY LFA SPORTS CLUSTER	94031-C2000	2001
	94032-C2000	
16MY LFA BASE CLUSTER	94011-C2200	2100
	94012-C2200	
	94013-C2100	
16MY LFA SPORTS CLUSTER	94031-C2100	2101
	94032-C2100	
	94033-C2100	



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 is successfully finished” message is displayed.
7. Click **Yes** to search for fault codes in all systems. Clear any DTCs found.
8. Start the engine to confirm proper operation of the vehicle.