



KIA MOTORS

GROUP
Engine

MODEL
2007-2009MY
Sorento (BL)

NUMBER
077

DATE
September 2010

TECHNICAL SERVICE BULLETIN

SUBJECT: SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT

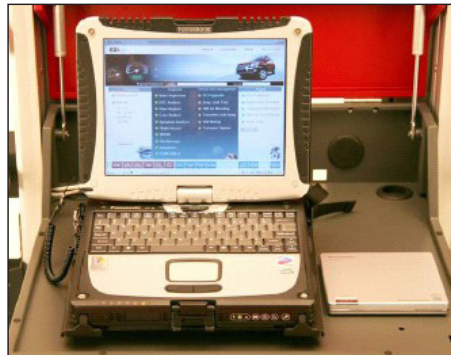
This bulletin provides the procedure to upgrade the Engine Control Module (ECM) on some 2007~2009MY Sorento (BL) 3.3/3.8L vehicles which may experience idle irregularity with brake pedal applied/depressed. This software upgrade will improve idle RPM. Make certain VIN writing procedure is performed on certain ROM IDs as indicated on the ROM chart.

*NOTICE

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.

*NOTICE

Do Not Force the Calibration into the Incorrect P/N PCM. This is subject to warranty chargeback.



*Global
Diagnostic
System
(GDS)*

To correct this condition, the ECM should be reprogrammed using the GDS download as described in this bulletin.

UPGRADE EVENT NAME

134.BL 3.3/3.8 IDLE RPM STABILITY IMPROVE

File Under: Engine

Circulate To: General Manager Service Manager Parts Manager
 Service Advisor(s) Technician(s) Body Shop Manager Fleet Repair

SUBJECT:**SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT*****NOTICE**

- A fully charged battery is necessary before ECU upgrade can take place. **DO NOT** connect a battery charger to the vehicle during ECU upgrade. Make sure the blower motor is 'OFF' during ECU upgrade.
- All ECU upgrades must be done with the ignition key in the 'ON' position.
- Be careful not to disconnect any cables connected to the vehicle or GDS during the ECU upgrade procedure.
- **DO NOT** start the engine during ECU upgrade.
- **DO NOT** turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- When the ECU upgrade is completed, turn the ignition 'OFF' and wait 20 seconds before starting the engine.
- **ONLY** use approved ECU upgrade software designated for the correct model, year and engine size. Failure to do so may create other drivability issues due to the use of the incorrect ECU/PCM calibration.

ROM Table Information:**Upgrade event: #134**

Vehicle	MY	IMMO	ECM P/N	ROM ID	
				Previous	New
BL 3.3	08MY	No (-)	39106-3C261	BL7N33*S2**7J2E* BLN33*S2**7M5B* BI7N33*S2**7J2F* BL7N33*S2**7MEE VIN WRITING PROCEDURES REQUIRED	BL7N33*S2**7M7B*
	09MY		39106-3C262	BL8N33*S2**8J0A* BL8N33*S2**8JAB* BL8N33*S2**8JHBB BL8N33*S2**8JWA*	BL7N33*S2**8W1A*

***NOTICE**

VIN writing procedures may be required after upgrade. Please check the ROM ID tables for "VIN WRITING PROCEDURES REQUIRED" alert box.

SUBJECT:

SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT

Upgrade event: #134 (Continued)

Vehicle	MY	IMMO	ECM P/N	ROM ID	
				Previous	New
BL 3.8	07MY	No (-)	39106-3C361	BL6N38*S2**7D0C*	BL6N38*S2**8W1AA
				BL6N38*S2**8JHBC	
	08MY		39106-3C362	BL7N38*S2**7F4C*	BL6N38*S2**8W1AC
				BL7N38*S2**7F4E*	
				BL6N38*S2**8JHCC	
	09MY		39106-3C363	BL7N38*S2**7J1A*	BL7N38*S2**8X1A*
				BL7N38*S2**7J2E*	
BL7N38*S2**8JHDC					
08MY	39106-3C362	BL7N38*S2**8JXA*	BL7N38*S2**8X1B*		
		BL7N38*S2**7J2F*			
		BL7N38*S2**8JHEC			
09MY	39106-3C363	BL7N38*S2**8JXB*	BL7N38*S2**8X1C*		
		BL7N38*S2**7J2H*			
		BL7N38*S2**8JHFC			
09MY	39106-3C363	BL7N38*S2**8JXC*	BL8N38*S2**8JRB*		
		BL8N38*S2**8JAB*			
		BL8N38*S2**8JHAB			
09MY	39106-3C363	BL8N38*S2**8JHAC			

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM's ROM ID and reference the Information Table as necessary.

1. Connect the power supply cable to the GDS tool.

*NOTICE

If attempting to perform the ECM/ECU/PCM upgrade with the power supply cable disconnected from the GDS tool, be sure to check that the GDS tool is fully charged before ECM/ECU/PCM upgrade. If the GDS tool is not fully charged, failure to perform the ECM/ECU/PCM upgrade may occur. Therefore, it is strongly recommended that the power supply connector be connected to the GDS tool.

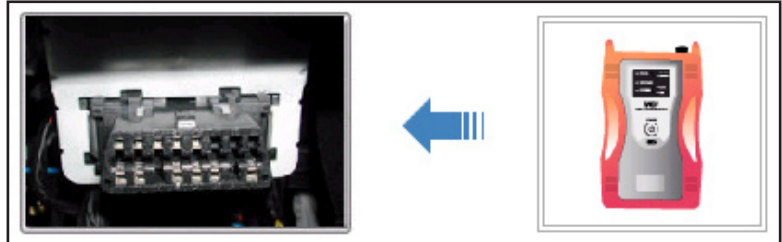
SUBJECT:**SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT**

- Connect the USB cable between the VCI and the GDS tool.

***NOTICE**

When performing the ECM/ECU/PCM upgrade using the GDS tool, wireless communication between the VCI and GDS tool is not available. Therefore, be sure to connect the USB cable between the VCI and the GDS tool.

- Connect the Main 16-pin DLC cable (GHDM – 241000) to the OBD-II connector, located under the driver's side of the instrument panel.



- Turn on the VCI and diagnostic terminal with the ignition key in the ON position.

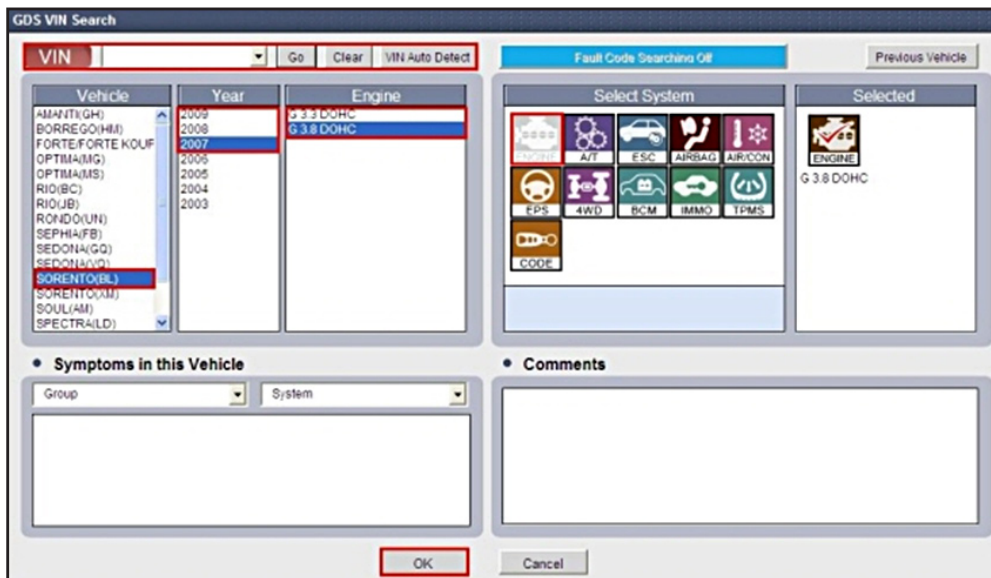
***NOTICE**

Do not start the engine.

AUTOMATIC UPGRADE PROCEDURE

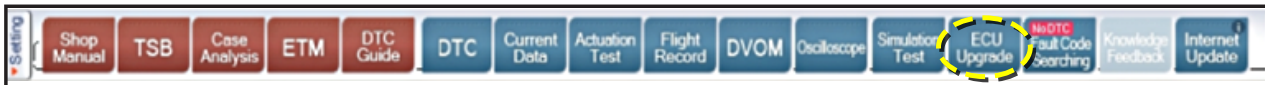
- Choose **VIN** or **ECU Upgrade** on the initial screen.

Enter the vehicle information by pressing the **VIN Auto Detect** button, entering the vehicle's VIN or selecting the vehicle model, model year, engine/fuel type and **ENGINE** as the system; then click **OK**.



SUBJECT: SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT

- Once back at the GDS Main Screen, select **ECU Upgrade**, then select **Auto Mode**, and then **ENGINE** in the left **ECU Upgrade** column, then perform the ECU upgrade in accordance with normal GDS tool ECU upgrade procedures.

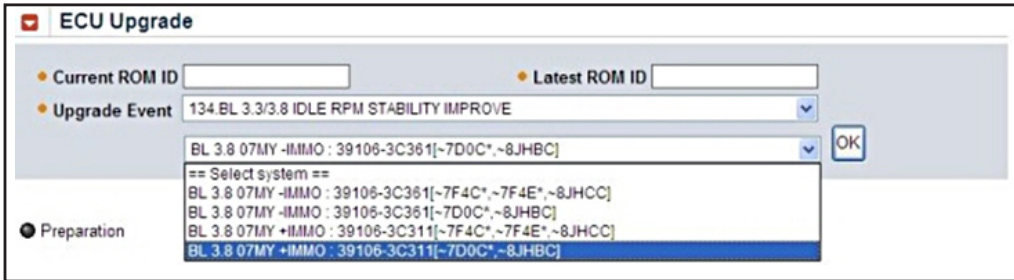


MANUAL UPGRADE PROCEDURE

***NOTICE**

Do NOT attempt to perform a Manual Mode upgrade unless Auto Mode fails. Always follow the instructions given on the GDS tool in either Auto or Manual mode. See table for Manual Mode passwords.

- Within the **ECU Upgrade** screen, select **Manual Mode** in the left column, then select the appropriate **#134 UPDATE**. Select the appropriate control unit part number with reference to the ROM ID Information Table and click **OK**.



- Enter the appropriate password from the table below, and then click OK.

MANUAL MODE PCM UPGRADE PASSWORDS:

Menu – Upgrade Event #134	Password	Communication Type
BL 3.3 08MY - IMMO : 39106-3C261	3261	CAN-line
BL 3.3 09MY - IMMO : 39106-3C262	3262	
BL 3.8 07MY -IMMO : 39106-3C361[~7D0C*,~8JHBC]	3361	
BL 3.8 07MY -IMMO : 39106-3C361[~7F4C*,~7F4E*,~8JHCC]	3362	
BL 3.8 08MY -IMMO : 39106-3C362[~7J1A*,~7J2E*,~8JHDC, ~8JXA*]	3363	
BL 3.8 08MY -IMMO : 39106-3C362[~7J2F*,~8JHEC,~8JXB*]	3364	
BL 3.8 08MY -IMMO : 39106-3C362[~7J2H*,~8JHFC,~8JXC*]	3365	
BL 3.8 09MY -IMMO : 39106-3C363	3366	

SUBJECT:**SORENTO (BL) WITH 3.3/3.8 IDLE RPM IMPROVEMENT****3. Upgrade will begin and the progress of the upgrade will appear on the bar graph.**

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.

4. Click OK on the final screen, which indicates upgrade is complete.**5. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade, and clear the DTC(s) present.****AFFECTED PRODUCTION RANGE:**

Model	Production Date Range
Sorento (BL)	2007MY to 2009MY

STANDARD TSB WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty
W	39109 37272	0	N94	C40	(ENG 077) ECM Upgrade	39110F1T	0.2 M/H	N/A	0