 <h1 style="text-align: center;">TSB-Local</h1>	Model	Soul [AM](all)
	Group	Fuel System(14)
	TSB No.	KCE11-14-E581-AM;C21VA
Subject Revised – ECM upgrade – AM U1.6 Euro 5 DPF protection	Published	1/18/2012
	TSB Type	Service Action
	Area & Distributor	U.K (C21VA)

1. Description

[REVISION NOTICE]

This bulletin supersedes the previous TSB KCE11-14-E580-AM and corrects the VIN list in the previous TSB.

This bulletin provides information related to the Engine Control Module (ECM) software upgrade for some 2010~2011MY Soul (AM) Euro5 U2-1.6L diesel vehicles

2. Applicable Vehicles

- Model: 2010~2011MY Soul (AM) Euro5 U2-1.6L Diesel vehicles
- Applicable vehicle production date range: From Aug 11,2010 to Nov 23, 2010
- Applicable VIN range: See attached revised VIN list
- Area: All except North America and China

[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.

3. Parts Information

MODEL	IMMO	ECM P/N	ROM ID	
			PREVIOUS	NEW
AM U2 1.6	O	39111-2A152	B0AM500MCVERI01U	B0AM500MCVERI03U
		39111-2A172	B0AM500MCVEHI01U	B0AM500MCVEHI03U
		39113-2A102	B0AM500ACVERI01U	B0AM500ACVERI03U
		39113-2A122	B0AM500ACVEHI01U	B0AM500ACVEHI03U
	X	39111-2A162	B0AM500MCVERN01U	B0AM500MCVERN03U
		39111-2A182	B0AM500MCVEHN01U	B0AM500MCVEHN03U

		39113-2A112	B0AM500ACVERN01U	B0AM500ACVERN03U
		39113-2A132	B0AM500ACVEHN01U	B0AM500ACVEHN03U

4. Operation Code And Time

OP CODE	OP NAME	OP TIME	NATURE	CAUSE
110103R0	ECM UPGRADE	0.2 M/H	N94	C40

5. Service Procedure

■ PREPARATION & CAUTIONS DURING CONTROL UNIT UPGRADE

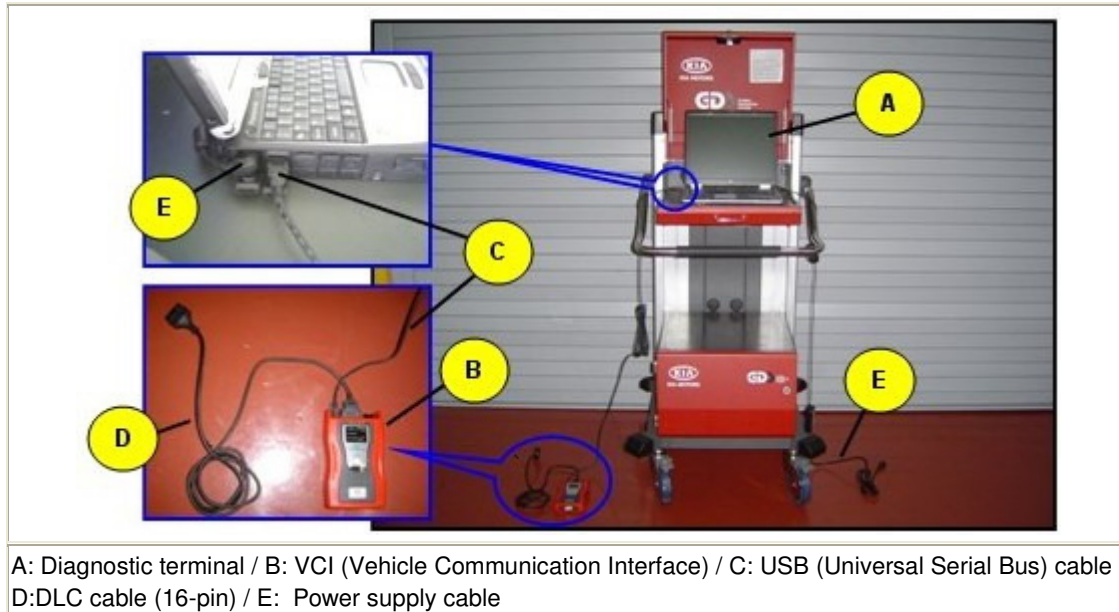
- 1) Make sure the vehicle's battery has reasonable charge. Connect the Midtronics battery charger that was supplied with your GDS and set to power supply mode / ECU upgrade function.
- 2) Turn off all lamps (Do not leave head lamp switch in auto mode.) and all accessories (including heater, A/C, blower, radio, seat warmer, defroster, etc.) not to 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 GDS during upgrade.
- 5) Do not start the engine during upgrade.
- 6) Do not turn off the ignition switch during upgrade.

After completing the upgrade ensure all other system control units are checked for DTC and any erased.

Please advise the customer that after the upgrade the ECU adaption values may take up to 1000miles to be re-learnt.

■ CONTROL UNIT UPGRADE PROCEDURE

1. GDS (Global Diagnostic System) INSTALLATION PROCEDURE



1) Connect the power supply connector to the diagnostic terminal.

[NOTE]

- If attempting to perform the upgrade with the power supply cable disconnected from the diagnostic terminal, make certain that the diagnostic terminal is charged enough for the upgrade.

If not, the upgrade may fail in progress. Therefore, it is strongly recommended to connect the power supply cable to the diagnostic terminal during the upgrade procedure.

2) Connect the USB cable between the VCI and the diagnostic terminal.

[NOTE]

- When performing the upgrade using the GDS, wireless communication between the VCI and the diagnostic terminal is NOT available. Therefore, be sure to connect the USB cable between the VCI and the diagnostic terminal.

3) Connect the 16-pin DLC cable from the VCI into the vehicle's DLC connector under the driver side instrument panel.

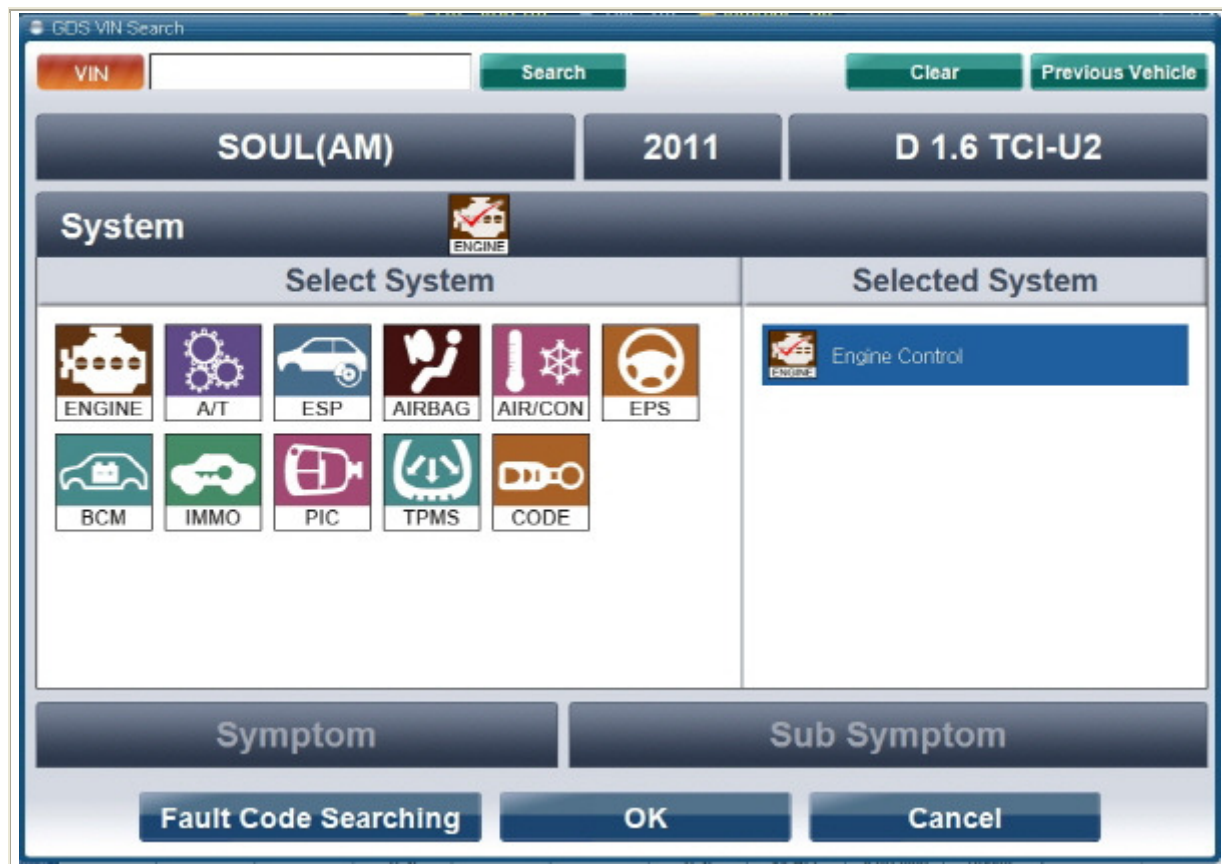
4) Turn on the VCI and diagnostic terminal with the ignition key in the ON position.

[NOTE] Do not start the engine.

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**.



- 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 "227.AM U2 1.6 DPF REGENERATION LOGIC IMPROVEMENT."**
- 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 **20 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) have been created by the upgrade and clear the DTC (s) present.
- 14) Start the engine to confirm proper operation of the vehicle.

3. MANUAL UPGRADE PROCEDURE

[CAUTION]

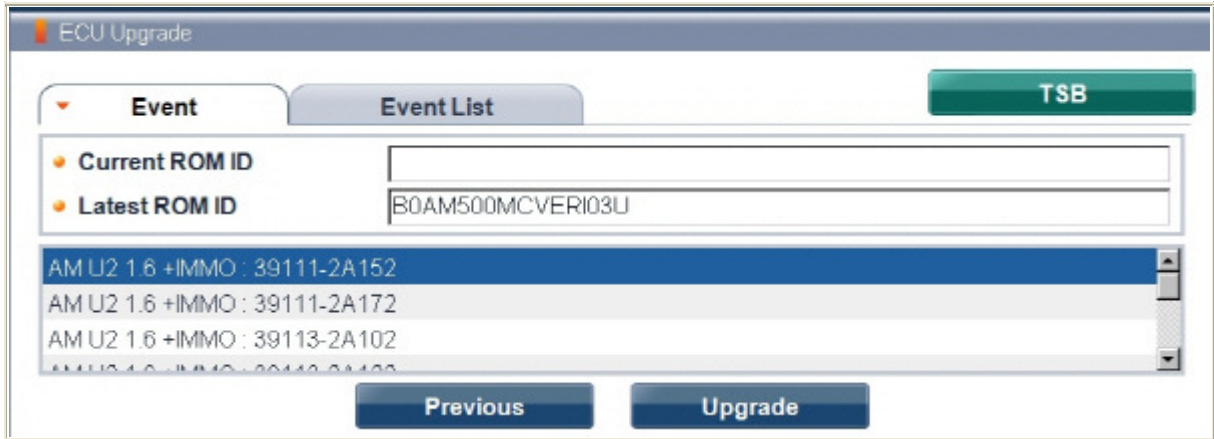
- Manual upgrade should be performed only when automatic upgrade fails.
- If automatic upgrade fails, turn the ignition key OFF for about 20 seconds, place it back in the

ON

position to reset the control unit before performing manual upgrade.

1) Within the **ECU Upgrade** screen, select **Manual Mode** in the left column, then select **Upgrade Event #227**.

Select the appropriate control unit part number with reference to the above ROM ID Information Table and click **OK**.



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

MENU	Password
AM U2 1.6 +IMMO : 39111-2A152	2152
AM U2 1.6 +IMMO : 39111-2A172	2172
AM U2 1.6 +IMMO : 39113-2A102	2102
AM U2 1.6 +IMMO : 39113-2A122	2122
AM U2 1.6 -IMMO : 39111-2A162	2162
AM U2 1.6 -IMMO : 39111-2A182	2182
AM U2 1.6 -IMMO : 39113-2A112	2112
AM U2 1.6 -IMMO : 39113-2A132	2132

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 **20 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) have been created by the upgrade and clear the DTC (s) present.

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