



GROUP
Fuel System

MODEL
**2014~2015MY
Sorento (XMa)
w/3.3L GDI**

NUMBER
028

DATE
April 2015

TECHNICAL SERVICE BULLETIN

SUBJECT: ECM UPGRADE – SORENTO (XMa) 3.3 GDI MIL ON
WITH DTCs P2096, P2098

This bulletin provides information related to the ECM software upgrade for some 2014-2015MY Sorento (XMa) vehicles which may experience a malfunction indicator lamp (MIL) illuminated with the ECM (Electronic Control Module) system-related DTC P2096 and/or P2098. To correct this condition, the ECM should be reprogrammed using the GDS download, as described in this bulletin. For confirmation that the latest reflash has been done to a vehicle you are working on, verify ROM ID using the tables in this TSB.

P2096: Post catalyst fuel trim system too lean (bank 1)

P2098: Post catalyst fuel trim system too lean (bank 2)



Global Diagnostic System (GDS)



Kia Diagnostic System (KDS)

* NOTICE

A KDS update for this TSB may not be available at the time of launch. In the meantime, perform the update using GDS.

File Under: <FUEL>

Circulate To: General Manager Service Manager Parts Manager

Service Advisor(s) Technician(s) Body Shop Manager Fleet Repair

SUBJECT:

**ECM UPGRADE – SORENTO (XMa) 3.3 GDI MIL ON
WITH DTCs P2096, P2098**

ECM Upgrade Procedure:


UPGRADE EVENT NAME
252.XMA 3.3GDI P2096/P2098 DTC LOGIC IMPROVE

*** NOTICE**

- A fully charged battery is necessary before ECM upgrade can take place. It is recommended that the Midtronics GR8 1299 system be used in ECM mode during charging. **DO NOT** connect any other battery charger to the vehicle during ECM upgrade.
- All ECM 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 ECM upgrade procedure.
- **DO NOT** start the engine during ECM upgrade.
- **DO NOT** turn the ignition key 'OFF' or interrupt the power supply during ECM upgrade.
- When the ECM upgrade is completed, turn the ignition 'OFF' and wait 20 seconds before starting the engine.
- **ONLY** use approved ECM upgrade software designated for the correct model, year.




CAUTION

Before attempting an ECM upgrade on any Kia model, make sure to first determine whether the particular model is equipped with an immobilizer security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback. 

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ROM ID INFORMATION TABLES :

Upgrade event #252

MODEL	IMMO	MY	ECU P/NO	ROM ID	
				PREVIOUS	NEW
XMA 3.3GDI	Yes (+) 	14MY	39110 3CXN0	XMCN33GM2A6CL1D*	XMCN33GM2A6CL1G*
				XMCN33GM2A6CL1E*	
		XMCN33GM2A6CL1F*			
	15MY	39110 3CXN5	XMFN33GM2A6CL5A*	XMFN33GM2A6CL5B*	
		39110 3CXN6	XMFN33GM2A6CL9N*	XMFN33GM2A6CM1A*	
	No (-)	14MY	39100 3CXN0	XMCN33GS2A6CL1D*	XMCN33GS2A6CL1G*
XMCN33GS2A6CL1E*					
XMCN33GS2A6CL1F*					
15MY		39100 3CXN5	XMFN33GS2A6CL5A*	XMFN33GS2A6CL5B*	
	39100 3CXN6	XMFN33GS2A6CL9N*	XMFN33GS2A6CM1A*		

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

1. Connect the power supply cable to the GDS.

*** NOTICE**

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

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

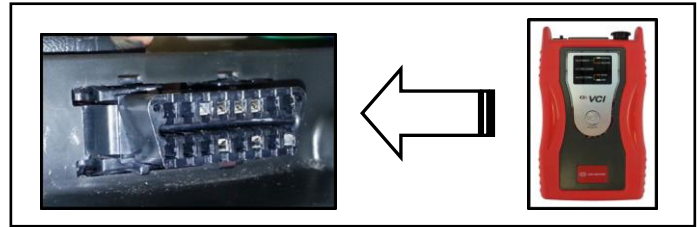
*** NOTICE**

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

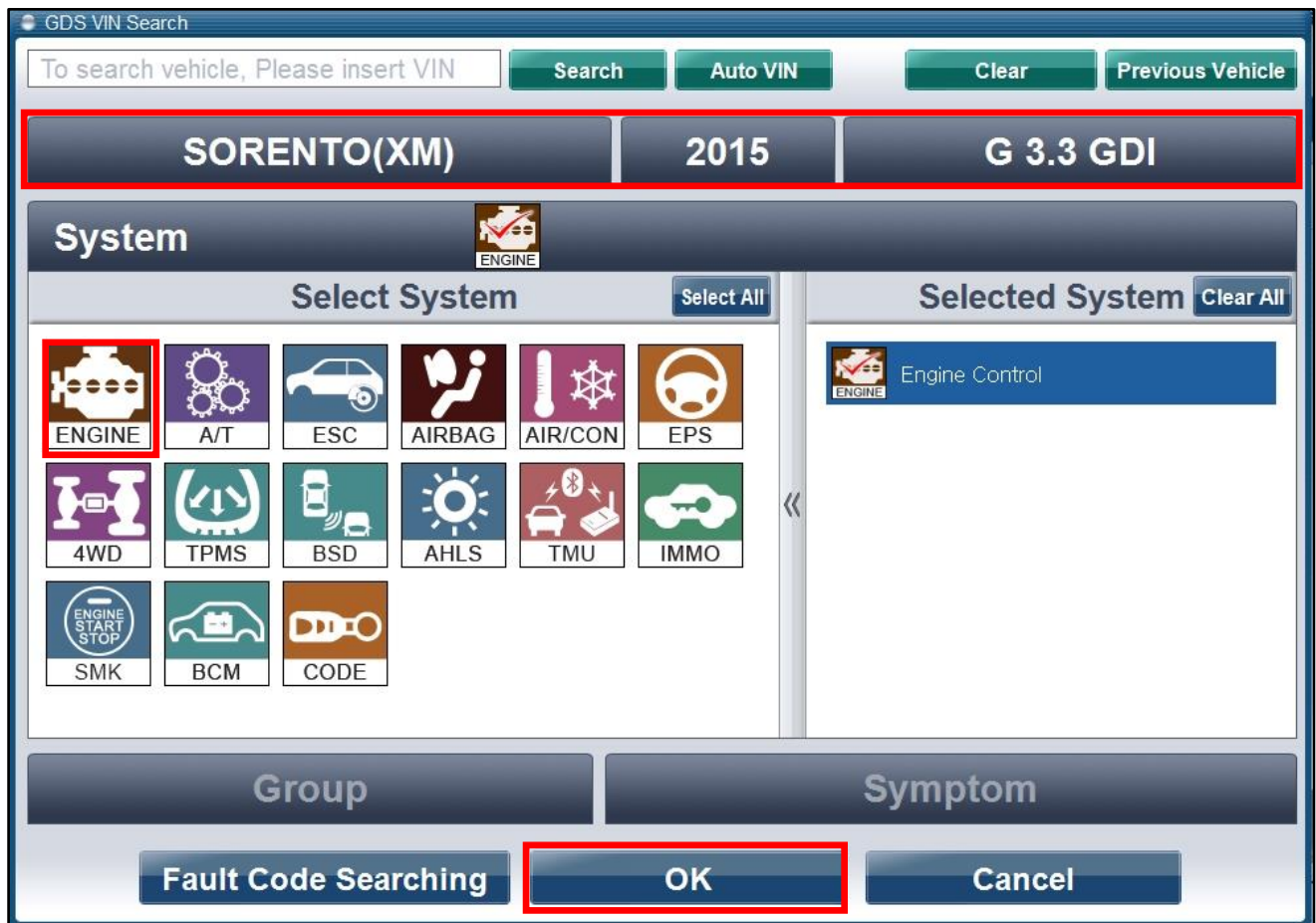
3. Connect the Main 16-pin DLC cable (GHDM – 241000) to the VCI.

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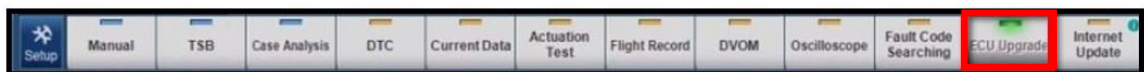
- Connect the Main 16-pin DLC cable (GHDM – 241000) to the OBD-II connector, located under the driver's side of the instrument panel.



- With the ignition key ON, turn ON the VCI and GDS. Access the GDS vehicle identification number (VIN) screen and configure the vehicle using the **VIN AUTO DETECT** Function.




- Once back at the GDS Main Screen, select **ECU Upgrade** from the bottom right-hand corner. Next select **Auto Mode**, and then **Engine**. Perform the ECM upgrade in accordance with normal GDS ECM upgrade procedures.



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*** NOTICE**

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

*** MANUAL MODE ECM UPGRADE PASSWORDS:**

*** Do NOT perform Manual Mode ECM upgrade unless Auto Mode fails.**

Upgrade event #252 (XMa)

MY	MENU	PASSWORD
XMA 3.3GDI	XMA 3.3 14MY -IMMO : 39100 3CXN0	0030
	XMA 3.3 15MY -IMMO : 39100 3CXN5	0035
	XMA 3.3 15MY -IMMO : 39100 3CXN6	0036
	XMA 3.3 14MY +IMMO/SMK : 39110 3CXN0 	1030
	XMA 3.3 15MY +IMMO/SMK : 39110 3CXN5 	1035
	XMA 3.3 15MY +IMMO/SMK : 39110 3CXN6 	1036

1. Within the ECU Upgrade screen, select **Manual Mode** in the left column, select **ENGINE** system and then select **Upgrade Event 252.XMA 3.3GDI P2096/P2098 DTC LOGIC IMPROVE**. Select the appropriate control unit part number by referring to the ROM ID Information Table on Page 3, and click **OK**.
2. Enter the appropriate password from the table above, and click **OK**.
3. Upgrade will begin and the progress of the upgrade will appear on the bar graph.
4. When the GDS reports that the upgrade has been successfully completed, click **OK** and turn the ignition off for ten (10) seconds.

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5. Check if any incidental Diagnostic Trouble Codes (DTC(s)) have been created by the upgrade process; clear any DTC(s) that may be present.
6. Start the vehicle to confirm proper operation.

AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Sorento (XMa) (w/3.3L GDI)	2014~15MY

WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty
W	39110 3CXN6	0	I3T	ZZ3	(FUE 028) ECM Upgrade	39100F15	0.3 M/H	N/A	0