	GROUP	MODEL				
KIN	Engine	2012-2013MY Bio 1 6L CDL (UB)				
	NUMBER	DATE				
KIA MOTOKS	131 (REV 1, 11/06/2014)	April 2013				
TECHNICAL SERVICE BULLETIN						
SUBJECT: ECM UPGRADE – K	NOCK IMPROVEME	NT				
This bulletin has been revised to in sections of this bulletin are indicated by a	clude a litit al informa a block a to margin a	ition. New/revised rea.				
This bulletin has been revised to include a bit al information. New/revised sections of this bulletin are indicated by a bit with a normargin area. This bulletin provides information reported to a provide of the provides which may only the use of g or pinping concern under moderate or heavy acceleration, especially while doug the inclined of the top correct this condition, the ECM should be reprogrammer being to BDS down are subscribed in this bulletin. Before performing this product on the VIN fail of the max of duction ranges by consulting the table on page the use the able of the table on page the use the table of the table on page the use the table of ta						
Circulate To: 🛛 🖾 General Manager	凶 Service Manager	凶 Parts Manager				
🗵 Service Advisor(s) 🛛 🖾 Technician(s) 🗵 Body Shop Manager	Fleet Repair				

ECM Upgrade Procedure:

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

UPGRADE EVENT NAME

203.UB 1.6 GDI KNOCK IMPROVEMENT (VER. 2)

***** 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.

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 v chargeback.

ECM UPGRADE – KNOCK IMPROVEMENT

ROM ID INFORMATION TABLES :



Upgrade event #203						
	TD 4110	10.0		RO	OM ID	
MODEL	TRANS	ISG	ECM P/N	EVI S	NEW	
		Yes (+)	10-3 V/6 3 BDB7	5	GGUB-DNU6QF05C00	
	A/T	No (-)	39110-2BDL5 39110-2BE 39110-70	GGUB-BN06 OC PRNU6PS 00 G V6PS0500 G V6PS0500 G V6PS0500 GUB-DNU6PS01CA0 GGUB-DNU6PS1 GGUB-DNU6PS1 GGUB-DNU6PS1 GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUB-DNU5P GGUS 00 GGUS 00 G	EDNU6PF05C00	
Rio (UB) 1.6 GDI		Yes (+)	39110-2BD 39110-2BDD 39110-2BDD7	GIN INUL 000C00 GIUN US01C00 IUB-AU6QS02C00 UB-BNU6QS03C00 GIUB-BNU6QS04C00 GIUB-BNU6QS01CA0 GIUB-BNU6QS01CA0 GIUB-DNU6QS01C00 GIUB-DNU6QS01C00 GIUB-DNU6QS02C00 GIUB-DNU6QS03C00 GIUB-DNU6QS03C00 GIUB-DNU6QS05C00 GIUB-DNU6QS05C00 GIUB-DNU6QS06C00	GIUB-DNU6QF06C00	
		No (-)	39110-2BDL8 39110-2BDL9 39110-2BDC	GIUB-BNU6PS00C00 GIUB-BNU6PS01C00 GIUB-BNU6PS02C00 GIUB-BNU6PS03C00 GIUB-BNU6PS04C00 GIUB-BNU6PS01CA0 GIUB-BNU6PS02CA0 GIUB-DNU6PS01C00 GIUB-DNU6PS01C00 GIUB-DNU6PS03C00 GIUB-DNU6PS03C00 GIUB-DNU6PS05C00 GIUB-DNU6PS05C00 GIUB-DNU6PS06C00	GIUB-DNU6PF06C00	

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SUBJECT:

ECM UPGRADE – KNOCK IMPROVEMENT

		Yes (+)	39110-2BDF7	GIUB-DNU6QSG0C00 GIUB-DNU6QSG1C00 GIUB-DNU6QSG2C00 GIUB-DNU6QSG3C00 GIUB-DNU6QSG4C00 GIUB-DNU6QFG4C00 GIUB-DNU6QSG5C00 GIUB-DNU6QSG6C00	GIUB-DNU6QFG6C00	
		No (-)	39110-2BDE7	GIUB-DNU6PSG0C00 GIUB-DNU6PSG1C00 GIUB-DNU6PSG2C00 GIUB-DNU6PSG3C00 GIUB-DNU6PSG4C00 GIUB-DNU6PSG5C00 GIUB-DNU6PSG6C00	GIUB-DNU6PFG6C00	
	M/T	Yes (+)	39110-2BDM0 39110-2BDP0	GGUB-BNU6FS00600 GGUB-BNU6FS01600 GGUB-BNU6FS02600 GGUB-BNU6FS03600 GGUB-BNU6FS04600 GGUB-BNU6FS016A0 GGUB-DNU6FS01600 GGUB-DNU6FS01600 GGUB-DNU6FS02600 GGUB-DNU6FS03600 GGUB-DNU6FS04600 GGUB-DNU6FS05600 GGUB-DNU6FS05600	GGUB-DNU6FF06600	
		No (-)	39110-2BDL0 39110-2BDL6 39110-2BDA7	GGUB-BNU6ES00600 GGUB-BNU6ES01600 GGUB-BNU6ES02600 GGUB-BNU6ES03600 GGUB-BNU6ES04600 GGUB-BNU6ES0060A GGUB-BNU6ES016A0 GGUB-DNU6ES01600 GGUB-DNU6ES01600 GGUB-DNU6ES02600 GGUB-DNU6ES03600 GGUB-DNU6ES05600 GGUB-DNU6ES05600 GGUB-DNU6ES05600	GGUB-DNU6EF06600	

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 tool.

If attempting to disconnected fro before ECM upgr ECM upgrade ma power supply cor	perform the ECM upgrade with the power supply cable m the GDS, be sure to check that the GDS is fully charged ade. If the GDS is not fully charged, failure to perform the ay occur. Therefore, it is strongly recommended that the anector be connected to the GDS.
ECM upgrade ma power supply cor	ade. If the GDS is not fully charged, failure to perform the ay occur. Therefore, it is strongly recommended that the innector be connected to the GDS.

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



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.
- 4.

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



- 5. With the ignition key ON, turn ON the VCI and GDS tool. Access the GDS vehicle identification number (VIN) screen and configure the vehicle using the VIN AUTO DETECT Function.
- 6. Select ENGINE system and click OK.



Display screen above is for only demonstration purposes and will vary depending on model.

ECM UPGRADE – KNOCK IMPROVEMENT

7. 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 tool ECM upgrade procedures.



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.

MANUAL MODE ECM UPGRADE PASSWORDS:



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.

MY	TRANS	MENU	PASSWORD
UB1.6 GDI 12~13MY	A/T	UB -ISG 39110-2BDM5/DM6/DB7	1027
		UB -ISG 39110-2BDL5/DL6/DA7	1028
		UB +ISG 39110-2BDM8/DM9/DD7	1029
		UB +ISG 39110-2BDL8/DL9/DC7	1030
		UB +ISG 39110-2BDF7	1031
		UB +ISG 39110-2BDE7	1032
	M/T	UB 1.6GDI MT +IMMO : 39110-2BDM0/DP0	1020
		UB 1.6GDI MT -IMMO : 39110-2BDL0/DL6/DA7	1033

Upgrade event #203 Rio (UB)

ECM UPGRADE – KNOCK IMPROVEMENT

- 8. When the GDS reports that the ECM upgrade has been successfully completed, click OK, turn OFF the ignition key, and wait at least 10 seconds before attempting to start the engine.
- 9. Check for Diagnostic Trouble Codes using the GDS and erase any DTCs stored such as EPS, ESC, and TPMS. Due to CAN BUS multiple DTCs maybe set during reprogramming.

duction Date Range 2012~2013MY

10. Start the engine to confirm proproperation which we hicle.

AFFECTED VEHICLE PRODU

WARRANTY CLAM INFOR

Claim Type	Causal P/N	Qty	C D Lab Op Tin Q Qt	ty
w	39110 2BDM5	0	N69 D E 391 SH //A 0)