



KIA MOTORS

GROUP
Engine

MODEL
Forte / Koup 2.0L w/ M/T

NUMBER
060

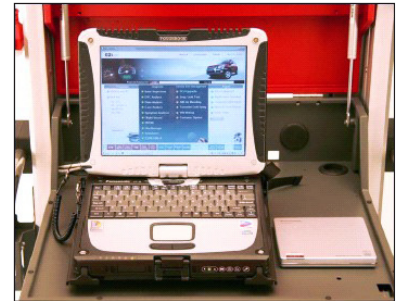
DATE
January 2010

TECHNICAL SERVICE BULLETIN

SUBJECT: PCM UPGRADE FOR MANUAL TRANSMISSION 2-3 SHIFT
POP NOISE IMPROVEMENT

This bulletin provides information related to some 2010MY Forte Sedan and Koup vehicles with 2.0L engines equipped with manual transaxles and no cruise control. Some vehicles may experience a pop noise during the 2-3 shift. At times it may produce a pop noise around 3000 rpm during the shift depending on customer driving style.

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



Global Diagnostic System (GDS)

UPGRADE EVENT NAME

109. TD Forte 2.0L M/T 2-3 Shift Pop Noise Improvement

*NOTICE

Global Diagnostic System (GDS) users should access the "Notice" function from the GDS Main Screen for instructions regarding ECU upgrade events.

*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 key '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 driveability issues due to the use of the incorrect ECM/PCM calibration.**

File Under: Engine

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

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ROM Tables:

MODEL	IMMO	ECM ROM ID		
		M/T	PREVIOUS	NEW
TD Sedan 2.0	No (-)	39112-2G100	DAF0MH2A DAF0MH2C DAF0MJ0A DAF0MK1A	DAF0MK1E
		39112-2G101	DAF0MJ0B DAF0MK1B	DAF0MK1F
TD Koup 2.0	No (-)	39162-2G160	CAF0RJ0A CAF0RK1A	CAF0RK1E
		39162-2G161	CAF0RJ0B CAF0RK1B	CAF0RK1F

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

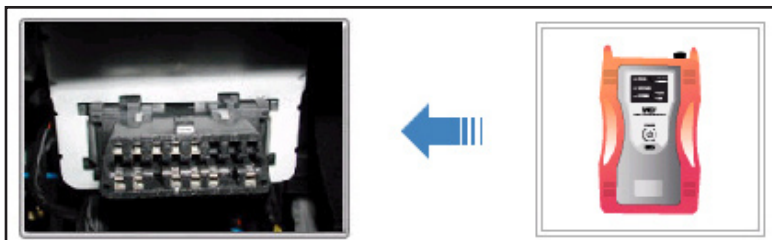
2. Connect the USB cable between the VCI and the GDS tool.

***NOTICE**

When performing the ECU 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.

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.



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



***NOTICE**

DO NOT attempt to perform a Manual Mode ECM 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. In addition, a ECM reset is required if Auto Mode fails; refer to the table below for procedure.

MANUAL MODE ECM UPGRADE PASSWORDS:

MENU	PASSWORD
TD 10MY 2.0 - IMMO : 39112-2G100	2100
TD 10MY 2.0 - IMMO : 39112-2G101	2101
TD 10MY 2.0 - IMMO : 39162-2G150	2150
TD 10MY 2.0 - IMMO : 39162-2G151	2151

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

** Do not force the Calibration into the incorrect P/N ECM. This is subject to warranty chargeback.*

7. When the GDS tool 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.
8. Check for Diagnostic Trouble Codes using the GDS and erase any DTCs stored in the Engine and Transaxle control modules (EPS, ESC, TPMS).

AFFECTED PRODUCTION RANGE:

2010 Forte vehicles equipped with 2.0L and Manual Transaxle produced prior to 8/19/2009.

WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty
W	39112 2G100	0	N94	C40	(TSB) ECM Upgrade	3911AF76	0.3 M/H	N/A	0