



GROUP  
**Service Campaign**

MODEL  
**2011~2012MY  
Sedona (VQ) w/3.5L  
Engine**

NUMBER  
**105 (REV 1, 8/22/ 2014)**

DATE  
**August 2014**

## VOLUNTARY EMISSIONS SERVICE CAMPAIGN

SUBJECT: ECM/TCM SOFTWARE UPGRADE (SC105)

### ★ NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information related to an inspection of the current ECM ROM ID and, if necessary, an upgrade of the ECM/TCM software on some 2011MY Sedona (VQ) vehicles, produced from March 3, 2010 through February 14, 2011 and some 2012MY Sedona (VQ) vehicles, produced from February 7, 2011 through August 14, 2012, which may not be in compliance with EPA and/or CARB emissions regulations. To ensure maximum customer satisfaction, Kia is requesting the completion of this Service Campaign on all affected 2011~2012MY Sedona vehicles. 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.

Affected Model/ Production Dates	Applicable Emissions Certification	Affected Control Module
2011MY Sedona (VQ) / Production date on or before 1/24/2011	All Federal and California Emissions	ECM/TCM
2011~2012MY Sedona (VQ) / Production date after 1/24/2011	California Emissions Only (includes vehicles currently registered in California and the S.177 States of CT, ME, MD, MA, NJ, NY, OR, PA, RI, VT, WA)	ECM

### ★ NOTICE

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service > Warranty Coverage >Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

File Under: <Service Campaign>

Circulate To:  General Manager  Service Manager  Parts Manager

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

**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)****ECM Upgrade Procedure:**

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

UPGRADE EVENT NAME	COMMENTS
230.VQ F/L 3.5 11/12MY IUVP IMPROVEMENT (ECM)	<ul style="list-style-type: none"> <li>Vehicles built on or before 1/24/2011 will require both ECM and TCM update.</li> <li>Vehicles built after 1/24/2011 will require <u>only</u> the ECM update.</li> </ul>
231.VQ F/L 3.5 A/T IUVP IMPROVEMENT (TCM)	

**★ 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. 

**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)****ROM ID INFORMATION TABLES :****Upgrade event #230 Sedona (VQ)**

MODEL	MY	IMMO	ECM P/N	ROM ID	
				PREVIOUS	NEW
VQ 3.5L	11MY	Yes (+) 	39109-3C610	VQAN35*M2**AB8C* VQAN35*M2**AB8D* VQAN35*M2**AB8G* VQAN35*M2**AB8E* VQAN35*M2**AB8F*	VQAN35*M2**AD0AS
		NO (-)	39109-3C660	VQAN35*S2**AB8C* VQAN35*S2**AB8D* VQAN35*S2**AB8E* VQAN35*S2**AB8G* VQAN35*S2**AB8F*	VQAN35*S2**AD0AS
	12MY	Yes (+) 	39109-3C611	VQBN35*M2**AC3A* VQBN35*M2**AC4B* VQCN35*M2**AC6A* VQBN35*M2**AC4A*	VQBN35*M2**AD0AS
		NO (-)	39109-3C661	VQBN35*S2**AC3A* VQBN35*S2**AC4B* VQCN35*S2**AC6A* VQBN35*S2**AC4A*	VQBN35*S2**AD0AS

**Upgrade event #231 Sedona (VQ)**

MODEL	MY	ECM P/N	ROM ID	
			PREVIOUS	NEW
VQ 3.5L	11MY	39109-3C610 39109-3C660 39109-3C611 39109-3C661	TVQ0C35N*****KA TVQ0C35N*****KB TVQ0C35N*****KC TVQ0C35N*****KD TVQ0C35N*****KE TVQ0C35N*****KF	TVQ0C35N*****KG

*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.*

- For Vehicles built on or before 1/24/2011, perform upgrade events # 230 and #231.
- For Vehicles built after 1/24/2011, perform only upgrade event #230.

**NOTE:** Events should be performed in succession, when applicable.

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.

**SUBJECT:**

**ECM/TCM SOFTWARE UPGRADE (SC105)**

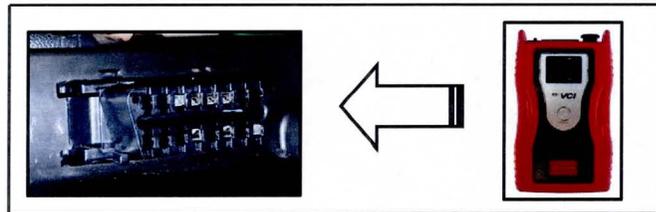
- 2. Connect the USB cable between the VCI and the GDS.

**\* 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.

- 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.

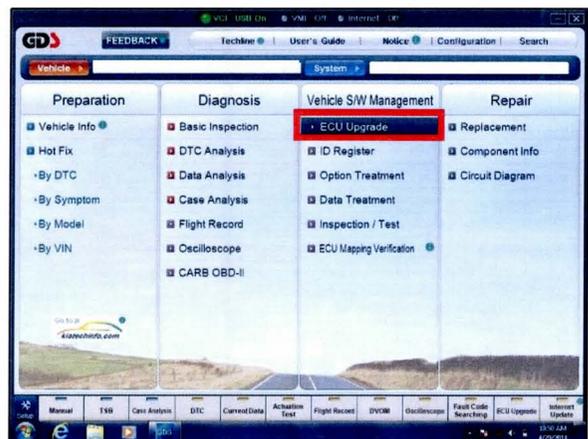


- 5. With the ignition key ON, turn ON the VCI and GDS. Access the GDS vehicle identification number (VIN) screen and configure the vehicle using the **VIN AUTO DETECT** Function.

- 6. Select **ENGINE** and click **OK**.

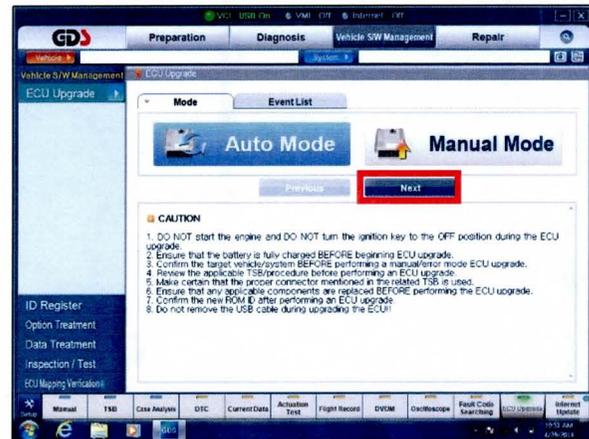


- 7. Select **ECU Upgrade**.



**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)**

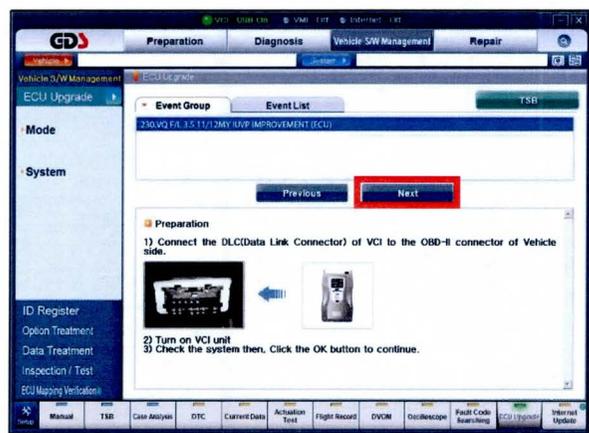
8. Select **Auto Mode** and click **Next**.



9. Select **ENGINE** and click **OK**.



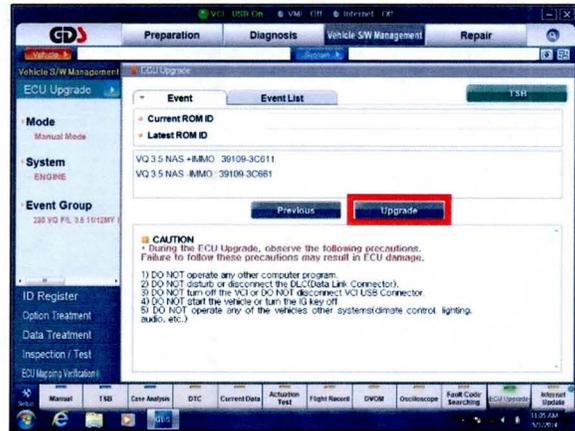
10. After the system reads the ROM ID, select event: **230.VQ F/L 3.5 11/12MY IUVP IMPROVEMENT (ECU)** and Click on **Next**.



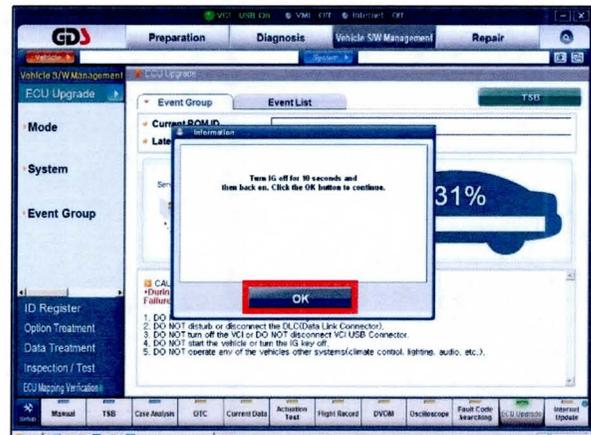
**SUBJECT:**

**ECM/TCM SOFTWARE UPGRADE (SC105)**

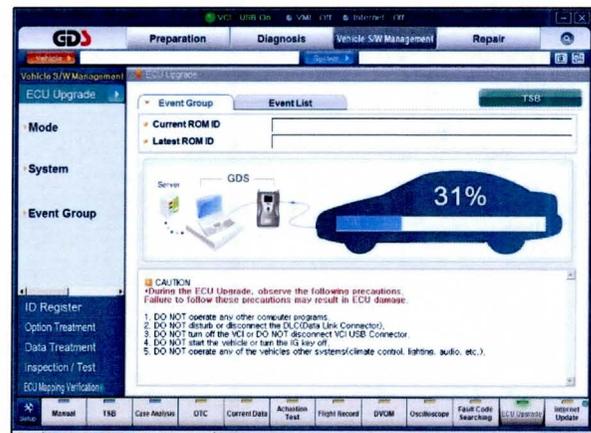
11. Click on **Upgrade**.



12. Click **OK** on the voltage check screen and cycle the ignition ON and OFF once, as shown. Then, click on **OK**.

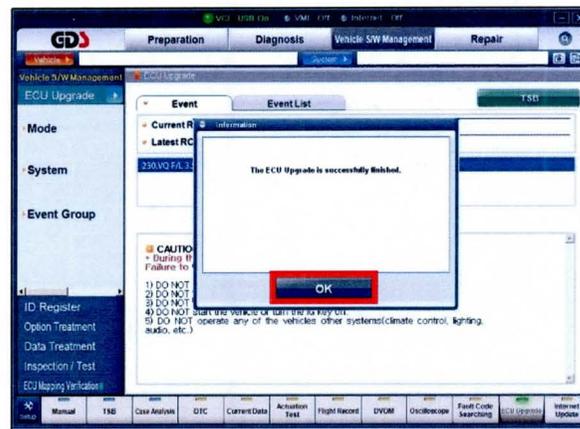


13. The upgrade will begin and the progress of the upgrade will appear on the bar graph.



**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)**

14. Click **OK** on the final screen. Upgrade event #230 is now complete.



15. Perform steps 6~14 again to complete **Event #231.VQ F/L 3.5 A/T IUVP IMPROVEMENT (TCM)**. **NOTE: The TCM update applies only to vehicles built prior to 1/24/2011.**
16. Check if any incidental Diagnostic Trouble Codes DTC(s) have been created by the upgrade process; clear any DTC(s) that may be present.
17. Start the engine to confirm proper vehicle operation.

**\* NOTICE**

Once update events are complete, proceed to Page 9 to perform the TCM Adaptive Learning Values Procedure (only for vehicles with TCM update).

**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. 🚗

**\* 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.

**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)****\* MANUAL MODE ECM UPGRADE PASSWORDS:****\* Do NOT perform Manual Mode ECM upgrade unless Auto Mode fails.****Upgrade event #230 Sedona (VQ)**

<b>MENU</b>	<b>PASSWORD</b>
VQ 3.5 NAS +IMMO : 39109-3C610	<b>3610</b>
VQ 3.5 NAS -IMMO : 39109-3C660	<b>3660</b>
VQ 3.5 NAS +IMMO : 39109-3C611	<b>3611</b>
VQ 3.5 NAS -IMMO : 39109-3C661	<b>3661</b>

**Upgrade event #231 Sedona (VQ)**

<b>MENU</b>	<b>PASSWORD</b>
VQ F/L 3.5 AT : 39109-3C610/660/611/661	<b>3661</b>

- For Vehicles built on or before 1/24/2011, perform upgrade events # 230 and #231.

- For Vehicles built after 1/24/2011, perform only upgrade event #230.

**NOTE:** Events should be performed in succession, when applicable.

1. Within the **ECM Upgrade** screen, select **Manual Mode** in the left column, select **Engine/TCM** and then select either **Upgrade Event 230 or 231 (perform events in succession, if applicable)**. 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 on above and click **OK**.
3. Upgrade will begin and the progress of the upgrade will appear on the bar graph.
4. Following the guidelines displayed on the screen during upgrade procedure, cycle the ignition OFF ↔ ON for ten (10) seconds.
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 engine to confirm proper vehicle operation.

**\* NOTICE**

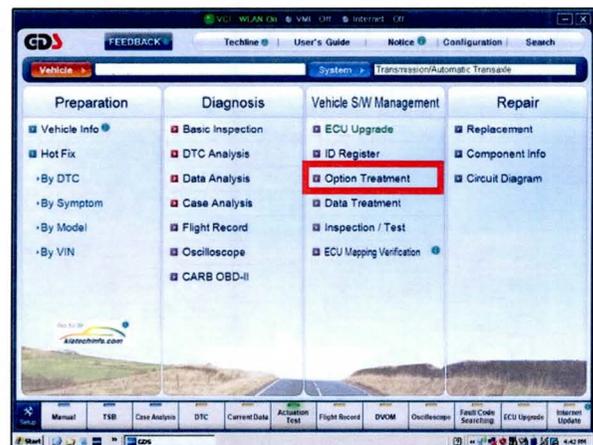
Once update events are complete, proceed to Page 9 to perform the TCM Adaptive Learning Values Procedure (only for vehicles with TCM update).

**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)****TCM Adaptive Learning Values:**

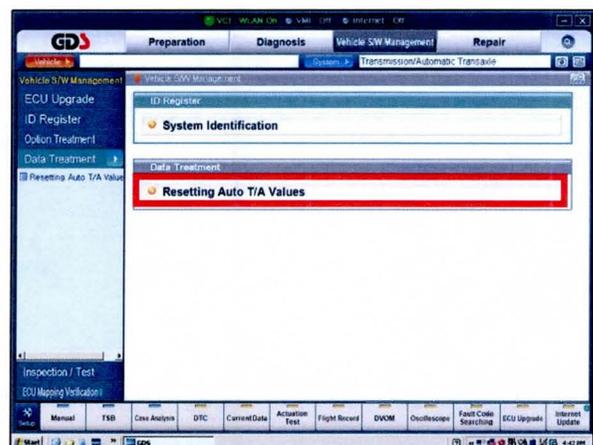
1. Select **A/T** Menu and click **OK**.



2. From the main screen, select **Option Treatment**.



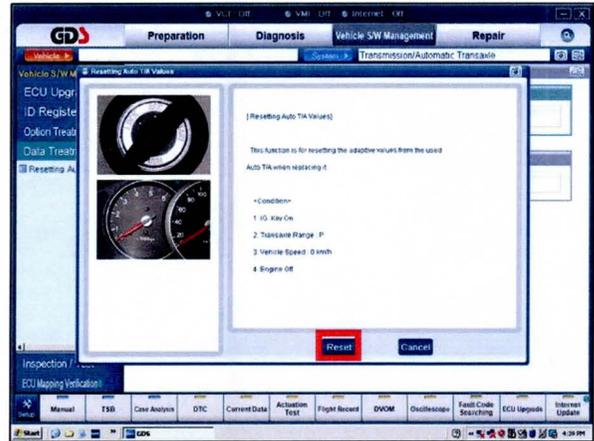
3. Select **Resetting Auto T/A Values**.



**SUBJECT:**

**ECM/TCM SOFTWARE UPGRADE (SC105)**

4. Follow the on screen instructions and Select **Reset**.



5. Start the engine to confirm proper vehicle operation.

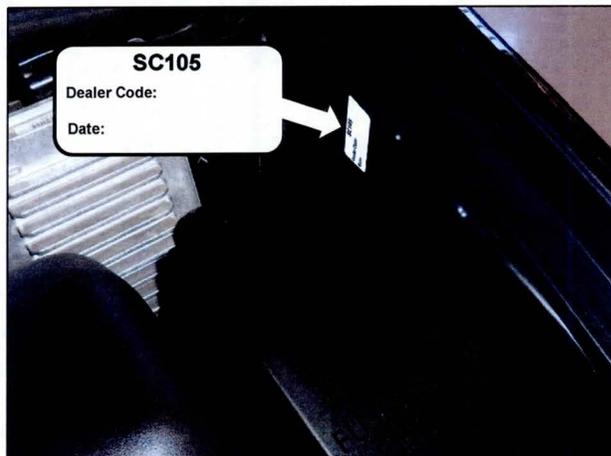


**SUBJECT:**

**ECM/TCM SOFTWARE UPGRADE (SC105)**

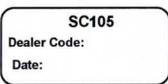
For vehicles within the states that require the proof of correction card, apply the SC105 Campaign Completion Label onto the body in the area next to fuse box, as shown.

**NOTE: Be sure to clean the mounting surface to ensure proper label adhesion.**



**SUBJECT:****ECM/TCM SOFTWARE UPGRADE (SC105)**

## REQUIRED PARTS:

Part Name	Part Number	Figure
Campaign Sticker	UV110 SC105	
Vehicle Emission Recall-Proof of Correction Card	UV111 SC105	

## AFFECTED VEHICLE PRODUCTION RANGE:

Model	MY	Production Date Range
Sedona (VQ)	2011	From March 3, 2010 through February 14, 2011
Sedona (VQ)	2012	From February 7, 2011 through August 14, 2012

## WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Op Time	Related Parts	Qty.
R	39109 3C611	0	N99	C99	(SC105) ECM ROM ID Inspect	140044R2*	0.2 M/H	N/A	0
R	39109 3C611	0	N99	C99	(SC105) ECM/TCM Upgrade (Production date on or before 1/24/2011)	140044R0*	0.3 M/H	N/A	0
R	39109 3C661	0	N99	C99	(SC105) ECM Upgrade (Production date after 1/24/2011)	140044R1*	0.3 M/H	N/A	0

\*Only one labor op code can be claimed.

**\* NOTICE**

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service > Warranty Coverage >Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.