	GROUP **TRA**	MODEL **2016MY** **Sedona (YP)**
KIA	NUMBER **058 (REV 3, 02/12/2016)**	DATE **October 2015**

TECHNICAL SERVICE BULLETIN

SUBJECT: SERVICE ACTION: TCM SHIFT LOGIC IMPROVEMENT (SA 208)

★ 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 the TCM software upgrade for some 2016MY Sedona (YP) vehicles to improve transmission "shift-feel" when downshifting (3-2) and to improve "busy-shift" feeling when climbing hills (4-3). To apply the improved logic, the TCM should be reprogrammed using the GDS/KDS download, as described in this bulletin. Kia is requesting the completion of this Service Action on all affected vehicles in <u>dealer stock</u>, prior to delivery. 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.

Global Diagnostic System (GDS)   Kia Diagnostic System (KDS)

★ NOTICE

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on WebDCS (Service> Warranty Coverage> Warranty Coverage Inquiry> Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs> Not Completed Recall> Recall VIN> Select Report), which includes a list of affected vehicles.

This issue number is <u>SA 208</u>.

File Under: <Transmission>

Circulate To: ☒ **General Manager**   ☒ **Service Manager**   ☒ **Parts Manager**

☒ **Service Advisor(s)**   ☒ **Technician(s)**   ☒ **Body Shop Manager**   ☐ **Fleet Repair**

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TCM Upgrade Procedure:

To apply the improved logic, the TCM should be reprogrammed using the GDS/KDS download, as described in this bulletin.

UPGRADE EVENT NAME
268.YP 3.3GDI 3-2/4-3 SHIFT LOGIC IMPROVEMENT

★ 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 10 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 #268 Sedona (YP)

MODEL	SYS	TCM P/N	Wheel Size	ROM ID	
				PREVIOUS	NEW
Sedona (YP) 3.3 GDI A/T	TCM	39110 3CYN2 39111 3CYN2 39100 3CYN2 39101 3CYN2	17" or 18"	TYP0Z33N******S0	**TYP0Z33N******S1**
		39110 3CYN3 39111 3CYN3 39100 3CYN3 39101 3CYN3	19"	TYPAZ33N******S0	**TYPAZ33N******S1**

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.

★ NOTICE

If performing this TSB using KDS, refer to TSB SST 037 for detailed information.

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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.

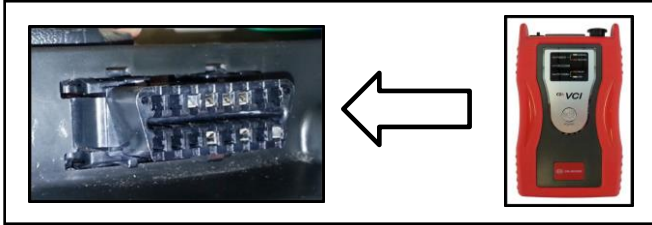2. Connect the USB cable between the VCI and the GDS.

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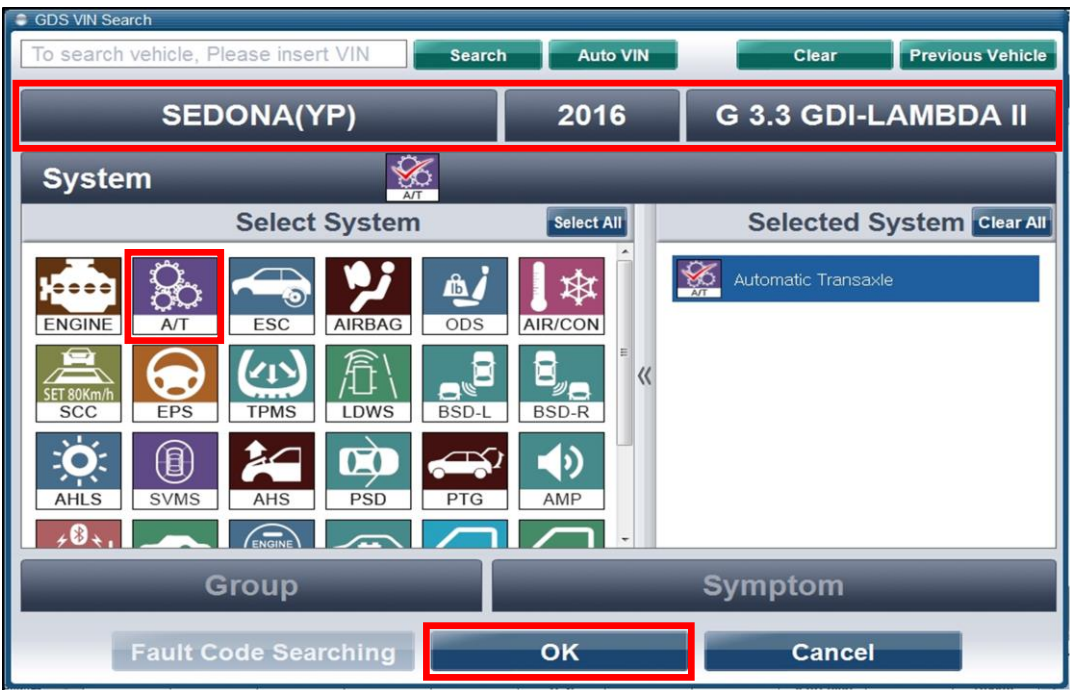
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3. Connect the Main 16-pin DLC cable (GHDM – 241000) to the VCI.

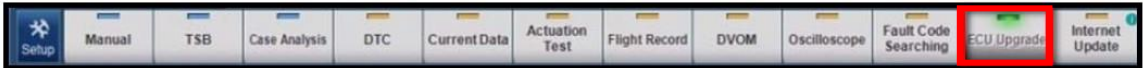**SUBJECT:** SERVICE ACTION: TCM SHIFT LOGIC IMPROVEMENT (SA 208)

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 **A/T** system and click **OK**.

7. Select **ECU Upgrade** from the bottom right-hand corner. Next select **Auto Mode**, and then **A/T**. Perform the upgrade in accordance with normal GDS ECM upgrade procedures.

★ NOTICE

Due to "Dealer-Stock" status and no accumulated mileage, resetting the TCM adaptive values is not required for this reflash.

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8. Confirm proper operation of the vehicle.

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> ⚠ **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.**

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

* **MANUAL MODE ECM UPGRADE PASSWORDS:**

Upgrade event #268 Sedona (YP)

EVENT	SYS	MENU	PASSWORD
268	TCM	YP 3.3GDI TCU : 39110/00/11/01-3CYN2 1032	**1032**
		YP 3.3GDI TCU : 39110/00/11/01-3CYN3 1033	**1033**

1.   Within the ECM Upgrade screen, select **Manual Mode** in the left column, select **A/T** and then select **Upgrade Event #268**. Select the appropriate control unit part number by referring to the ROM ID Information Table on Page 3, and click **OK**.

> ✱ **NOTICE**
>
> **Pay close attention to the wheel size reference information associated with PCM/TCM numbers. Ensure the correct PCM/TCM line item / Part Number is selected to prevent drivability concerns.** **Additionally, verify that the correct ROM ID is loaded after the reflash has been completed.**
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2.   Enter the password from the table above, and click **OK**.

3.   Upgrade will begin and the progress of the upgrade will appear on the bar graph.

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4. When the GDS reports that the TCM upgrade has been successfully completed, click **OK**, turn OFF the ignition key, and wait at least 10 seconds before attempting to start the engine.

5. Check for Diagnostic Trouble Codes using the GDS and erase any DTCs stored that may have been set during reprogramming.

> ★ **NOTICE**
>
> **Due to "Dealer-Stock" status and no accumulated mileage, resetting the TCM adaptive values is not required for this reflash.**

6. Confirm proper operation of the vehicle.

AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Sedona (YP)	2016MY

SERVICE ACTION CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty.
V	39110 3CYN2	0	N99	C99	(SA 208) TCM Upgrade	150097R1	0.3 M/H	N/A	0

> ★ **NOTICE**
>
> **VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA 208 when accessing the WebDCS system.**