SB-10058124-4187

	GROUP	MODEL
KIA	**Chassis**	**2015MY Optima (QF)**
	NUMBER	DATE
	055	**April 2015**

TECHNICAL SERVICE BULLETIN

SUBJECT: SERVICE ACTION: BLIND SPOT DETECTION (BSD) SYSTEM LOGIC IMPROVEMENT (SA 187)

This bulletin provides information related to an upgrade of the logic for the Blind Spot Detection (BSD) System of some 2015MY Optima (QF) vehicles, produced from August 12, 2014 to November 19, 2014. The vehicles in question may have a "Check BSD System" message illuminated in the instrument cluster, along with DTC C270254 or C270354 stored in BSD system, as Active or Pending, during Fault Code Searching. To resolve this concern, the BSD System 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.

DTC C270254 – Control Module 'Master' Missing Calibration
DTC C270354 - Control Module 'Slave' Missing Calibration

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 SA 187.

File Under: <Chassis>

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

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

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ECU Upgrade Procedure:

UPGRADE EVENT NAME
250.QF BSD S/W LOGIC IMPROVEMENT

* NOTICE

- **A fully charged battery is necessary before ECU upgrade can take place. It is recommended that the Midtronics GR8 1299 system be used in ECU mode during charging. DO NOT connect any other battery charger to the vehicle 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 'OFF' and wait 20 seconds before starting the engine.**
- **ONLY use approved ECU upgrade software designated for the correct model, year.**

ROM ID INFORMATION TABLES:

Upgrade event #250

BSD ECU P/N	Rom ID	
	Previous	New
95811 2T600 (LH, Slave)	TF32TF32 TF32TF33 TF33TF32	**TF33TF33**
95821 2T600 (RH, Master)		

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

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1. Connect the power supply cable to the GDS.

*** NOTICE**

If attempting to perform the ECU upgrade with the power supply cable disconnected from the GDS, be sure to check that the GDS is fully charged before ECU upgrade. If the GDS 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.

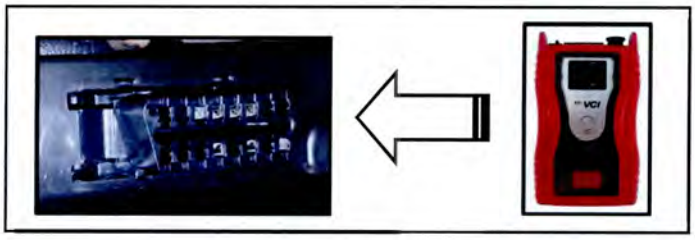
2. Connect the USB cable between the VCI and the GDS.

*** NOTICE**

When performing the ECU 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.



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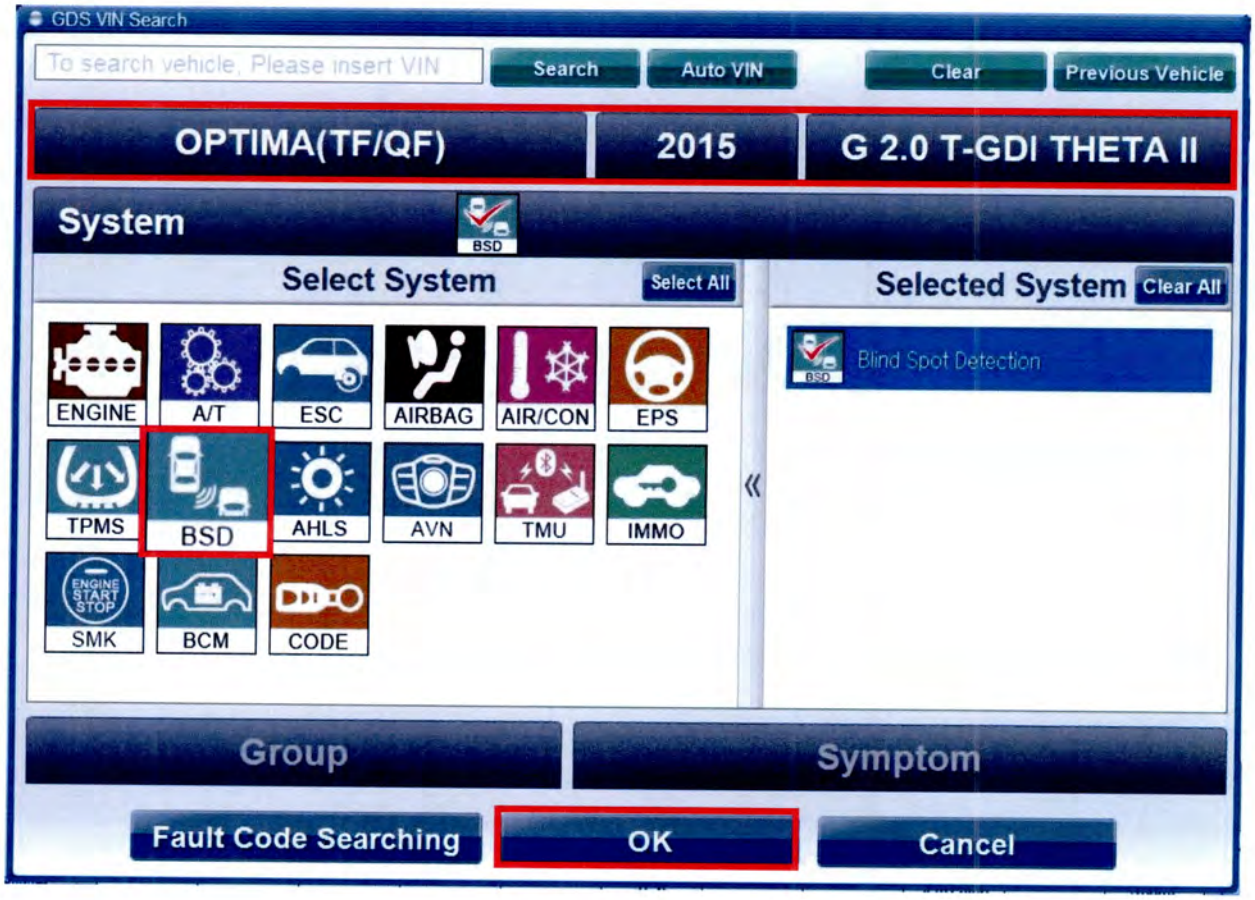
5. With the ignition key ON, turn ON the VCI and GDS. Access the GDS vehicle identification number (VIN) screen and configure the vehicle using the **VIN AUTO DETECT** Function.



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

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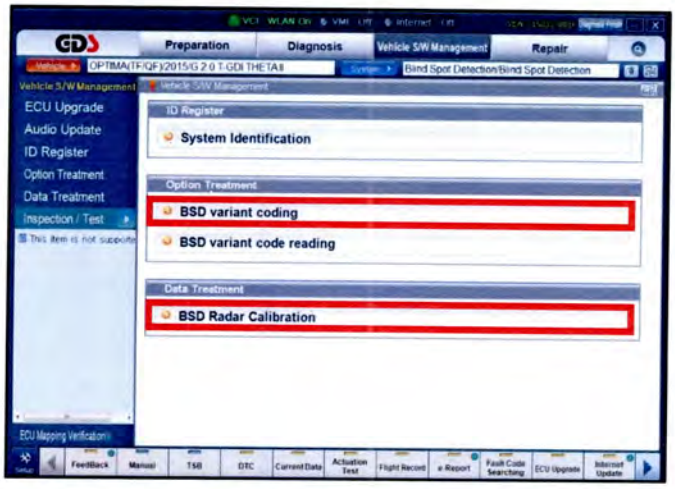
7. After upgrade is complete, perform the following procedures:

   - **BSD → Vehicle S/W Management → Variant Coding**
   - **BSD → Vehicle S/W Management → Radar Calibration**



8. Check if any incidental Diagnostic Trouble Codes (DTC(s)) have been created by the upgrade process; clear any DTC(s) that may be present.

9. Start the vehicle to confirm proper operation.

★ 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.

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*** MANUAL MODE ECU UPGRADE PASSWORDS:**

*** <u>Do NOT perform Manual Mode ECU upgrade unless Auto Mode fails</u>.**

Upgrade event #250 (QF)

Model	Menu	Password
Optima (QF)	QF BSD 95811/21-2T600	**2600**

1. Within the ECU Upgrade screen, select **Manual Mode** in the left column, select **ENGINE** system and then select **Upgrade Event 250.QF BSD S/W LOGIC IMPROVEMENT.** Select the appropriate control unit part number by referring to the ROM ID Information Table on Page 2, and click **OK**.

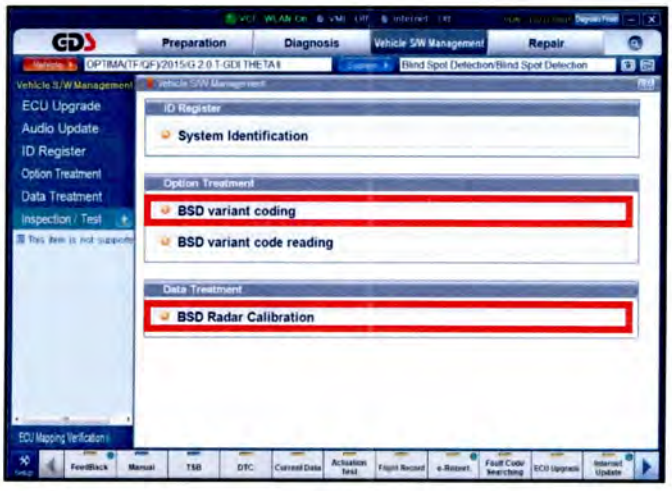
2. Enter the appropriate password from the table above, and click **OK**.

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.

5. After upgrade is complete, perform the following procedures:

   - **BSD → Vehicle S/W Management → Variant Coding**
   - **BSD → Vehicle S/W Management → Radar Calibration**



6. Check if any incidental Diagnostic Trouble Codes (DTC(s)) have been created by the upgrade process; clear any DTC(s) that may be present.

7. Start the vehicle to confirm proper operation.

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AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Optima (QF)	From August 12, 2014 to November 19, 2014

WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty.
V	95811 2T600	0	N99	C99	(SA 187) Blind Spot Detection Upgrade	150A04R0	0.3 M/H	N/A	0

*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA187 when accessing the WebDCS system.