	GROUP	MODEL
	Safety Recall Campaign	2022-2023MY Carnival (KA4)
	NUMBER	DATE
	SC266	April 2023

SAFETY RECALL CAMPAIGN

SUBJECT:

POWER SLIDE DOOR (PSD) OPERATION
SOFTWARE LOGIC IMPROVEMENT (SC266)

This bulletin provides the procedure to reprogram the Power Slide Door (PSD) control module with updated software in certain 2022-2023MY Carnival (KA4) vehicles produced from January 4, 2021 through February 22, 2023 in order to increase customers' awareness that the PSD is closing. The updated software will add two (2) warning chimes when the power sliding door begins to open or close and will also change the door speed to move more slowly as the door approaches its latching point. Follow the procedure outlined in this publication to apply the improved logic to the 'PSD' system using the KDS ECU Upgrade function as described in this bulletin. For confirmation that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table on page(s) 3 of this bulletin.

Kia Diagnostic System

🗎 NOTICE

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

🗎 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.

SUBJECT: **PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)**

ECU Upgrade Procedure:

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

Upgrade Event Name
664. KA4 PSD OPERATION LOGIC IMPROVEMENT

📄 NOTICE

- Confirm a <u>fully charged battery</u> (12.3 volts or higher is necessary) is used <u>or</u> utilize a fully charged jump starter box connected to the battery.
- **Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.**
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- **Damaged VCI II units should <u>not</u> be used and promptly replaced.**
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- **DO NOT start the engine during ECU upgrade.**
- DO NOT turn the ignition key 'OFF' <u>or</u> interrupt the power supply during ECU upgrade.
- **When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.**
- ONLY use approved ECU upgrade software designated for the correct application.

ⓘ IMPORTANT

It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.

Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC266 Carnival (KA4) April 2023

KIA

SUBJECT: PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)

> **📄 NOTICE**
>
> Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable 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.

ROM ID INFORMATION TABLE:

Upgrade Event #664

Model	System	IMMO 🚗	ECU P/No.	ROM ID	
				Previous	New
KA4	PSD	Yes	83870 R0000 83870 R0001 83870 R0002 83870 R0003	1.00 1.01 1.02 1.03	1.04

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.

Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC266 Carnival (KA4) April 2023

SUBJECT:

PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)

> 📄 **NOTICE**
>
> **Prior to performing the ECU upgrade, be sure to check that the KDS is fully charged.**

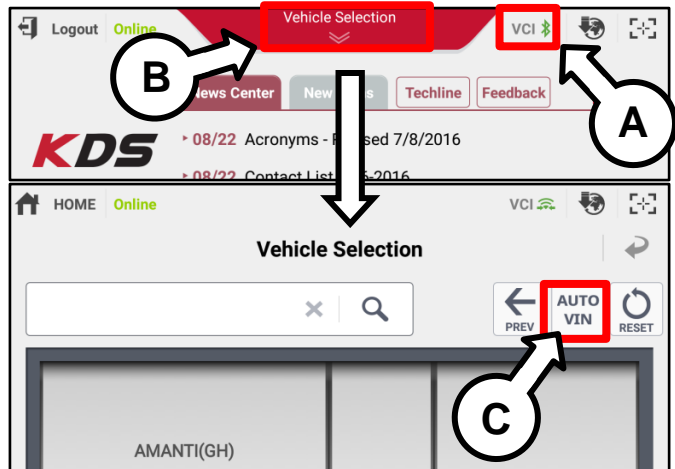1. Connect the VCI-II to the OBD-II connector, located under the driver's side of the instrument panel.

   > 📄 **NOTICE**
   >
   > **The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.**

2. With the ignition **ON**, turn ON the KDS tablet. Select **'KDS'** from the home screen.

3. Confirm communication with VCI (A) and then configure the vehicle (B) using the **'AUTO VIN'** (C) feature.

4. Select **'ECU Upgrade'**.

TSB: SC266 Carnival (KA4) April 2023

5. The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event #664**.

> 📄 **NOTICE**
>
> **The vehicle must be identified in Vehicle Selection to download an Event for that vehicle.**

After the download is complete, the program will shut down to install. Please wait until the program restarts.

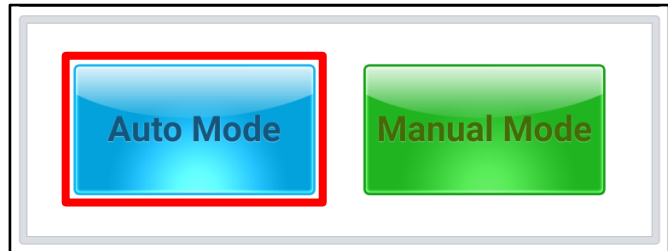| Event	Status
271.QF 2.4GDI DTC P0171,P0420 LOGIC IMPROVEMENT	Downloading
273.TF 2.4GDI DTC P0171,P0420 LOGIC IMPROVEMENT	Ready

36%

⚠ Do not touch any system buttons while performing this function.

KDS screenshot shown above is for demonstration purposes only. Events shown in screenshot are not applicable to this bulletin.

6. Select **Auto Mode**.

> ⚠ **CAUTION**
>
> **Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.**

Auto Mode   Manual Mode

7. Select the **'PSD'** system per the applicable TSB (D) and select **664. KA4 PSD OPERATION LOGIC IMPROVEMENT.**

ECU Upgrade

🚗 CARNIVAL(KA4) > 2023 > G 3.5 GDI LAMBDA III

● System

PSD

● Event Group   **D** → TSB

664. KA4 PSD OPERATION LOGIC IMPROVEMENT

KA4 PSD : 83870-R0000/R0001/R0002/R0003

8. The ECU upgrade will begin, and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-ll. Upgrade part (2/2) (F) will upgrade the ECU.

> ⚠ **CAUTION**
>
> **Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing ECU Upgrade.**

E 23%

ECU Upgrading...(1/2)

ECU is in the process of being upgraded. Please wait a few minute.

F 6%

ECU Upgrading...(2/2)

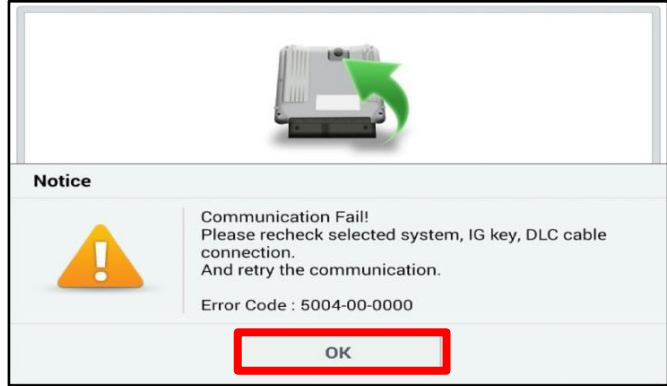ECU is in the process of being upgraded. Please wait a few minute.

Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC266 Carnival (KA4) April 2023

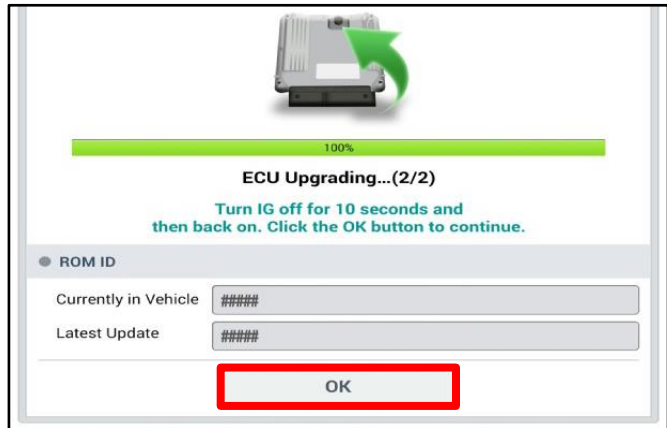**SUBJECT:** **PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)**

9. If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select **'OK'** and restart the from step 4.
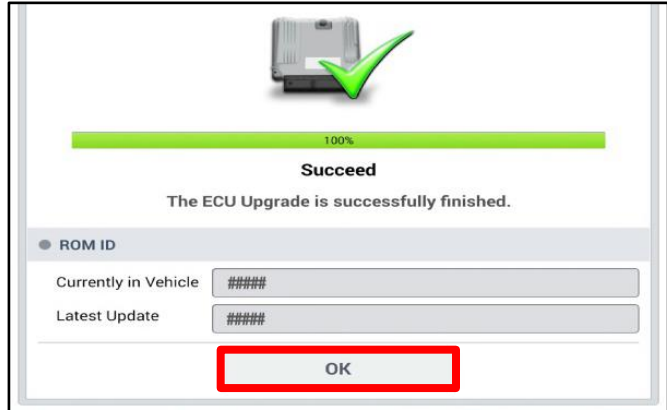
   📄 **NOTICE**

   If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.
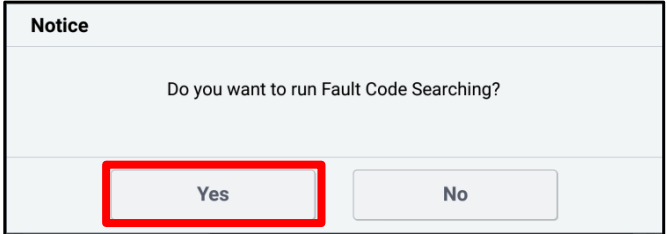

10. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Select **'OK'** to continue.

11. Once the upgrade is complete, select **'OK'** to finalize the procedure.

12. When prompted, select **'YES'** to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, TPMS, and others that may have been set during the upgrade.

13. Start the engine to confirm normal operation of the vehicle.

KIA

SUBJECT:	PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)

Manual Upgrade Procedure:

> **📄 NOTICE**
>
> **The manual upgrade should ONLY be performed if the automatic upgrade fails.**
>
> **If the automatic upgrade fails, turn the ignition 'OFF' for about 10 seconds then place it back in the 'ON' position to reset the control unit BEFORE performing manual upgrade.**
>
> **See table below for 'Manual Mode' passwords.**

Manual Mode ECU Upgrade Passwords

Menu	Password
KA4 PSD: 83870-R0000/R0001/R0002/R0003	6641

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.

2. Select the **PSD** system under the System selection menu. Select **Upgrade Event #664** and select **Upgrade** to continue.

3. Select the appropriate control unit part number with reference to the ROM ID Information Table on page 3, and select **OK**.

4. Enter the appropriate password from the Manual Mode password table above and select **OK**.

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

6. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Select **OK**.

7. Once the upgrade is complete, select **OK** to finalize the procedure.

8. When prompted, select **YES** to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during the upgrade.

9. Start the engine to confirm proper operation of the vehicle.

Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC266 Carnival (KA4) April 2023

SUBJECT: PSD OPERATION SOFTWARE LOGIC IMPROVEMENT (SC266)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
Carnival (KA4)	January 4, 2021 to February 22, 2023

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

WARRANTY INFORMATION:

N Code: N99   C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	83870 R0002	0	(SC266) PSD Operation Logic Improvement	231021R0	0.3 M/H	N/A	0

Note: Refer to Warranty Bulletin 2023-10 for claim submission procedures.

> 📄 **NOTICE**
>
> **VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC266 when accessing the WebDCS system.**

Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

TSB: SC266 Carnival (KA4) April 2023