



GROUP

MODEL

ELE

2025MY
K5 (DL3)

NUMBER

DATE

376

April 2025

TECHNICAL SERVICE BULLETIN

SERVICE ACTION: ACU OPERATION
LOGIC IMPROVEMENT (SA609)

SUBJECT:

This bulletin provides information to upgrade the Airbag Control Unit 'ACU' system software on certain 2025MY K5 (DL3) vehicles produced from February 20, 2024 to October 25, 2024. In rare cases when the driver restarts the vehicle within 1.5 seconds after turning the ignition 'OFF', the affected vehicles may exhibit the "ESC/Forward Collision Avoidance System" warning light(s) illuminating for up the three (3) minutes with DTC(s) C128387 and/or C164286 stored. During this time, Electronic Stability Control 'ESC', Forward Collision—Avoidance Assist 'FCA' and Lane Keeping Assist 'LKA' functions are inoperable. Follow the procedure outlined in this publication to apply the improved logic to the 'ACU' system using the KDS ECU Upgrade function as described in this bulletin. Refer to [SST081](#) for software upgrade instructions using Kia Diagnostic System (KDS) tablet and VCI-II and confirm the Upgrade Event Number/Name, ROM ID Information, and Manual Mode passwords (if applicable) on the applicable vehicle.

Note: This condition does not affect normal airbag deployment operation or braking performance.

DTC Description:**C128387: Lateral G Sensor/Longitudinal G Sensor/Yaw Rate Sensor - Signal Error****C164286: CAN Message Failure - Brake**

This software upgrade may also be available via an Over-the-Air (OTA) update on vehicles with an 'active' Kia Connect subscription.

 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 KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

This issue number is SA609.

A printed copy is for reference only; publication information can be updated at any time.
Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

Refer to [TSB SST081](#) for instructions to upgrade the 'ACU' system:

❗ IMPORTANT

The software update may also be available via **Over-The-Air (OTA)** upgrade feature through an 'active' Kia Connect account for customers. An OTA software upgrade may not be available at the time a TSB publication is released. Dealers can confirm OTA availability by checking for OTA release notes on the Kia [Owners Portal](#): [OTA Software Update Release Notes](#). If the affected vehicle had the latest software installed via OTA, no further action is required by the dealer.

Note: An OTA installed software is time-stamped for each VIN.

To correct this condition, the specified system module should be reprogrammed using KDS as described in this bulletin in 'Auto Mode'.

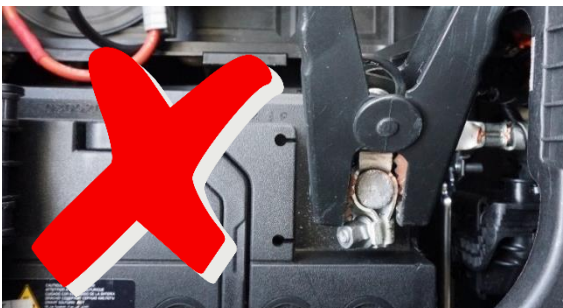
Upgrade Event Name

805.DL3 PE ACU MIL ON DTC Judgment Logic Improvement (C128387 / C164286)

📄 NOTICE

- Confirm a fully charged battery (12.3 volts or higher is necessary) is used or 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 not 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' or 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.

[Connect the negative \(-\) terminal to the battery as shown below.](#)



SUBJECT:

SERVICE ACTON: ACU OPERATION LOGIC IMPROVEMENT (SA609)**ROM ID Information Table:****❗ 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.

Upgrade Event #805

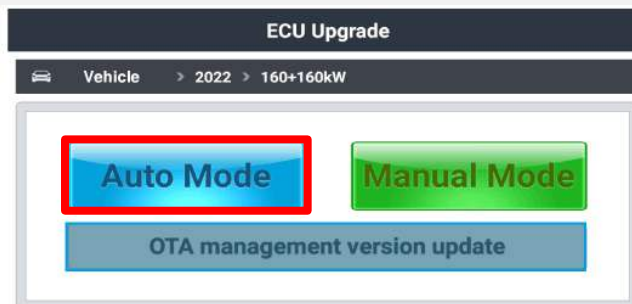
Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
K5 (DL3)	ACU	Yes	95910 L2AA0	04022AA1	04042AA0

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.

Software Information:

The required software must be installed by selecting the **'Auto Mode'** ECU Upgrade option.

Note: In some case, the 'Manual Mode' installation option may be required **ONLY** if the 'Auto Mode' function fails or is otherwise noted above.



NOTICE

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 the manual upgrade.

'Manual Mode' passwords.

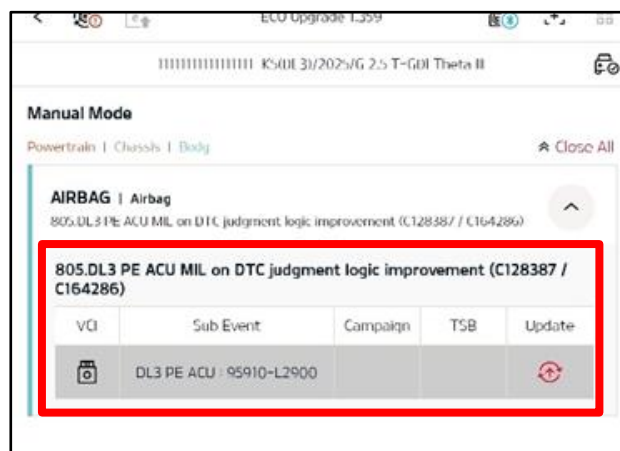
Event No.	Menu	Password
805	DL3 PE AC: 95910-L2AA0	0221

UPGRADE EVENT:

Select the applicable **'AIRBAG'** system module and the Event Group.

- 805.DL3 PE ACU MIL ON DTC Judgment Logic Improvement (C128387 / C164286)

Verify the affected vehicle Calibration Identification of the applicable ECU ROM ID and reference the Information Table on page 3 as necessary.



IMPORTANT

If the software event fails to upgrade in 'Auto Mode', **the first attempt to install the software event in 'Manual Mode' WILL fail.** This is normal.

SUBJECT:

SERVICE ACTON: ACU OPERATION LOGIC IMPROVEMENT (SA609)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
K5 (DL3)	February 20, 2024 to October 25, 2024

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
Kia Diagnostic System (KDS)	N/A		KDS + VCI

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.
V	95910 L2AA0	0	(SA609) ACU Software Upgrade	250024R0	0.3 M/H	N/A	0

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA609 when accessing the KDealer+ system.