



GROUP

MODEL

ELE

2025MY
Carnival HEV (KA4 HEV)

NUMBER

DATE

386**June 2025**

TECHNICAL SERVICE BULLETIN

SUBJECT: **SERVICE ACTION: MCU DTC LOGIC IMPROVEMENT (SA617)**

This bulletin provides information to upgrade the Motor Control Unit 'MCU' system software on certain 2025MY Carnival HEV (KA4 HEV) vehicles produced from June 27, 2024, through March 19, 2025. The affected vehicles may exhibit an intermittent Malfunction Indicator Lamp 'MIL' illuminated on the instrument cluster with DTC P0C7300. The DTC is caused by a software logic error within the Integrated Thermal Management Module 'ITM', which controls the coolant flow rate according to the coolant temperature. To address this concern, follow the procedure outlined in this publication to upgrade the 'MCU' system software. 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.

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

DTC Description:

P0C7300 - Motor Electronics Coolant Pump 'A' Control Performance



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 SA617

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 'MCU' system:

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

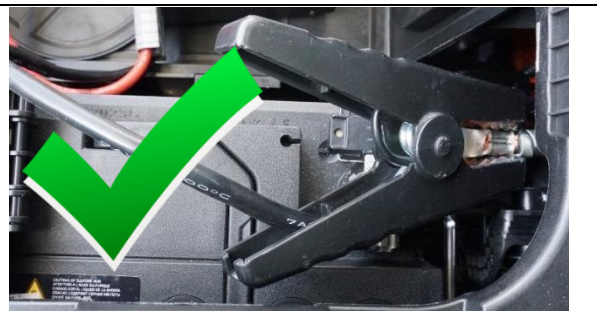
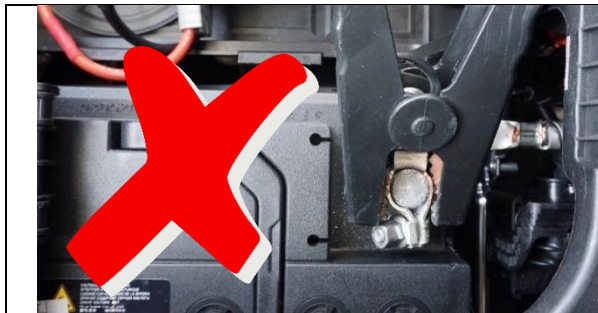
Upgrade Event Name

841.KA4 PE HEV MCU DTC Judgment Logic Improvement (POC73)

 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.](#)



 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.

SUBJECT:

MCU DTC LOGIC IMPROVEMENT (SA617)

ROM ID Information Table:

Upgrade Event #841

❗ 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.

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
KA4 HEV	MCU (Motor Control Unit)	Yes	36601 3DBZ0	GKADH25NACS1-000	GKADH25NACS2-000

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.

❗ 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.

Software Information:

❗ 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.

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.

Select ECU Upgrade Mode

Auto Mode

Manual Mode

OTA management version update

📄 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.

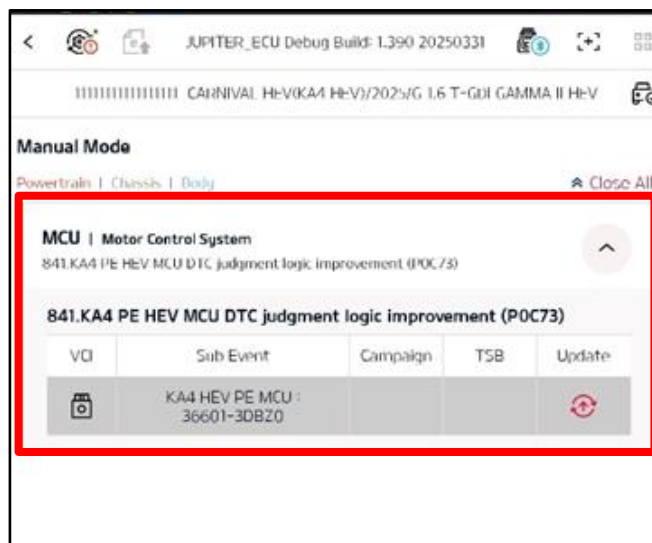
Menu	Password
KA4 HEV PE MCU : 36601-3DBZ0	4069

UPGRADE EVENT:

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

- 841.KA4 PE HEV MCU DTC Judgment Logic Improvement (P0C73)

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



SUBJECT:

MCU DTC LOGIC IMPROVEMENT (SA617)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Carnival HEV (KA4 HEV)	June 27, 2024 to March 19, 2025

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	36601 3DBZO	0	(SA617) MCU DTC Logic Improvement	250068R0	0.3 M/H	N/A	0

Note: For Substitute Transportation policy, please refer to Service Policy and Procedures Manual (SPPM) 6.11 "Kia Substitute Transportation".

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA617 when accessing the KDealer+ system.