



GROUP

MODEL

ELE

2024MY
EV9 (MV)

NUMBER

DATE

337 (Rev 1, 7/10/2024)

April 2024

TECHNICAL SERVICE BULLETIN

SERVICE ACTION: INTEGRATED CHARGING CONTROL UNIT
LOGIC IMPROVEMENT (SA568)

SUBJECT:

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 to upgrade the software on the Integrated Charging Control Unit (ICCU) on certain 2024MY EV9 (MV) vehicles produced from September 25, 2023 through March 21, 2024 to improve the auxiliary 12-V battery charging under low voltage conditions. The affected vehicles may experience a discharged 12-V battery while parked and potentially a no-start condition accompanied by DTC P1A961C. The Low Voltage DC/DC Converter (LDC) converts high voltage battery power (High DC) to 12-V battery power (Low DC). This software upgrade may also be available via Over The Air (OTA) through Kia Connect if it has been activated. Follow the procedure outlined in this publication to upgrade the software logic of the 'ICCU' system using the KDS ECU Upgrade function as described in this bulletin on the applicable vehicle. 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 3 of this bulletin.

DTC Description:

P1A961C - LDC Internal Power Supply Fault

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 SA568.

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.
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SUBJECT:

INTEGRATED LED HEADLAMP CONTROL UNIT OPERATION LOGIC IMPROVEMENT (SA568)

ECU Upgrade Procedure:

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in TSB [SST081](#).

Upgrade Event Name
734.MV1 ICCU LDC FET Protection Logic Improvement

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.

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.

NOTICE

If a 'Communication Fail' error notice appears or the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.

NOTICE

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer  (IMMO) 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:

INTEGRATED LED HEADLAMP CONTROL UNIT OPERATION LOGIC IMPROVEMENT (SA568)

ROM ID INFORMATION TABLE:

Upgrade Event #736

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
MV	ICCU	Yes	36401 1XHA0	MV1 E3 IDS00RG00 MV1 E3 IDS01RG00 MV1 E3 IDS02RG00 MV1 E3 IDS03RG00 MV1 E3 IDS04RG00 MV1 E3 IDS05RG00	MV1 E3 IDS06RG00

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.

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

UPGRADE EVENT:

734.MV1 ICCU LDC FET Protection Logic Improvement

NOTICE

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



IMPORTANT

An **Over-The-Air (OTA) Software Update** for this procedure is planned for release but may not be available at the time of TSB publication. Dealers can confirm OTA availability by checking for OTA release notes on the [Owners Portal](#) of [kia.com](#): [OTA Software Update Release Notes](#)

Manual Mode ECU Upgrade Passwords

Menu	Password
MV1 ICCU : 36401-1XHA0	6736

SUBJECT:

INTEGRATED LED HEADLAMP CONTROL UNIT
OPERATION LOGIC IMPROVEMENT (SA568)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
EV9 (MV)	September 25, 2023 to March 21, 2024

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.
V	36400 1XHA0	0	(SA568) ICCU Logic Improvement	240055R0	0.3 M/H	N/A	0

 NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA568 when accessing the KDealer+ system.

