



GROUP	MODEL
ELE	2023MY Niro P/HEV, EV (SG2 P/HEV, EV) EV6 (CV)
NUMBER	DATE
300 (Rev 1, 09/18/2023)	August 2023

TECHNICAL SERVICE BULLETIN

SERVICE ACTION: MOOD LAMP OPERATION LOGIC IMPROVEMENT (SA536)

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 the procedure to upgrade the software logic of the interior Mood Lamp Module (MLM) system on some 2023MY Niro EV, P/HEV (SG2 P/HEV, EV) vehicles produced from April 14, 2023 through May 15, 2023 and 2023MY EV6 (CV) vehicles produced from April 18, 2023 through May 13, 2023, which may exhibit an inoperative mood lamp. Follow the procedure outlined in this publication to apply the improved logic to the 'MLM' 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 tables on page 3 of this bulletin. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



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 SA536.

ECU Upgrade Procedure:

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

Upgrade Event Name
688. SG2 HEV/PHEV/EV MLM UPGRADE FOR MOOD LAMP OPERATION
689. CV MLM UPGRADE FOR MOOD LAMP OPERATION

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 if the upgrade cannot be performed, **DO NOT** disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.

SUBJECT:

MOOD LAMP OPERATION LOGIC IMPROVEMENT (SA536)

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 #688 (SG2 P/HEV, EV)

Model	System	ECU P/No.	Type	ROM ID	
				Previous	New
SG2 HEV	MLM	92900 AT000	AVN	1.01.19	1.01.22
		92900 AT050	PIO		
SG2 PHEV		92900 AT100	AVN	1.01.20	1.01.23
SG2 EV		92900 AO000	AVN	1.00.19	1.00.22
		92900 AO050	PIO		

Upgrade Event #689 (CV)

Model	System	ECU P/No.	Type	ROM ID	
				Previous	New
CV	MLM	92900 CV001	-	1.12.33	1.12.35

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.



1. If the mood lamp is currently inoperative in Niro PHEV, EV (SG2 PHEV, EV) and EV6 (CV) vehicles, disconnect the negative (-) battery terminal for ten (10) seconds, then reconnect the negative terminal and proceed to software logic installation.

 **CAUTION**

If the negative (-) battery terminal is not disconnected when the mood lamp is inoperative, the vehicle will not accept the software logic.

If the mood lamp is currently inoperative in Niro HEV (SG2 HEV) vehicles, disconnect the 12V auxiliary battery connector located near the brake fluid reservoir for ten (10) seconds, then reconnect the 12V auxiliary battery connector and proceed to software logic installation.



2. Verify the vehicle's ROM ID is included in the ROM ID table on page 3.
 - If the ROM is included in the ROM ID table on page 3, then proceed to step 3.
 - If the ROM ID is not included in the ROM ID table on page 3, no further action required. **Claim Op Code 230044R1.**

 **NOTICE**

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

3. 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.



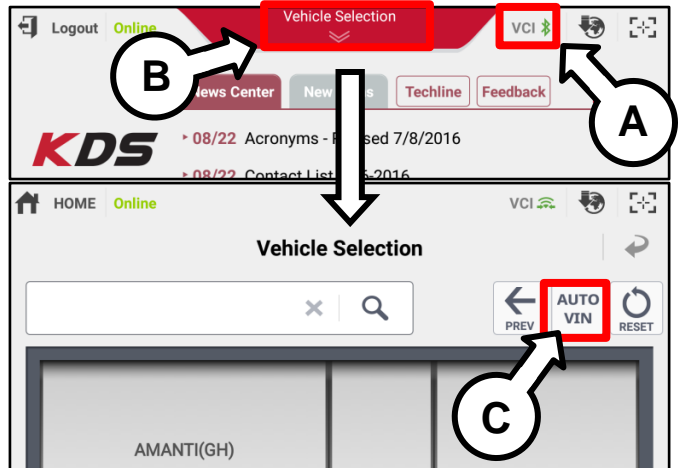
SUBJECT:

MOOD LAMP OPERATION LOGIC IMPROVEMENT (SA536)

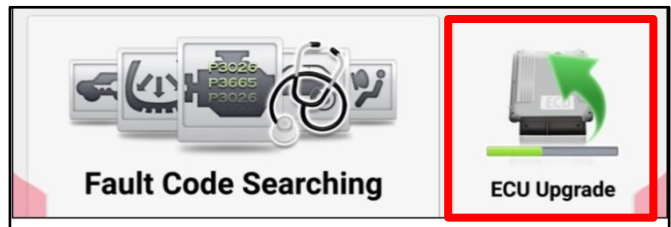
- With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



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



- Select 'ECU Upgrade'.



- The KDS will check the server for recently uploaded Events and then automatically download Upgrade Event #688 or #689.

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.

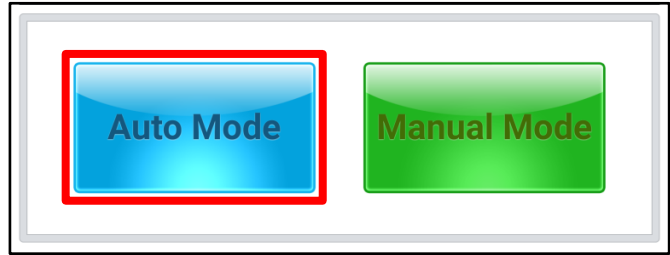
KDS screenshot shown above is for demonstration purposes only. Events shown in screenshot are not applicable to this bulletin.



- Select Auto Mode.

CAUTION

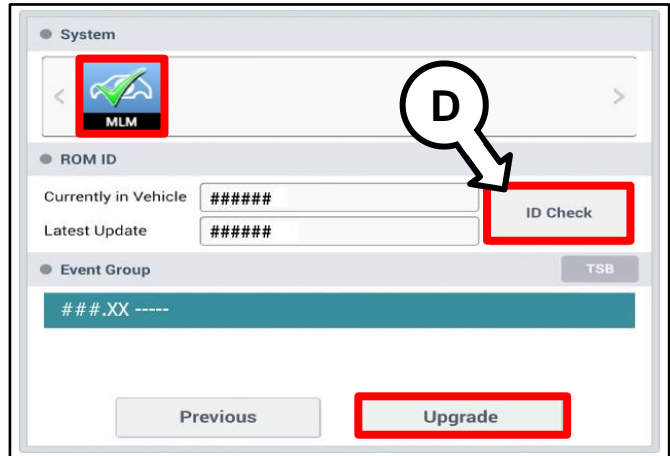
Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.



- Select the 'MLM' system under the System selection menu.

Touch ID Check (D) and confirm that the latest update is available (if applicable).

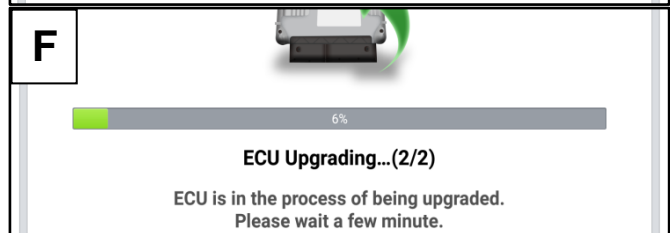
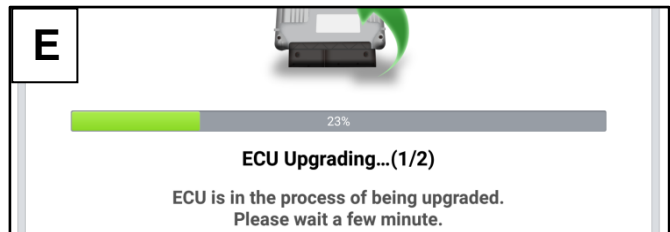
Select Upgrade Event #688 or #689 and select Upgrade to continue.



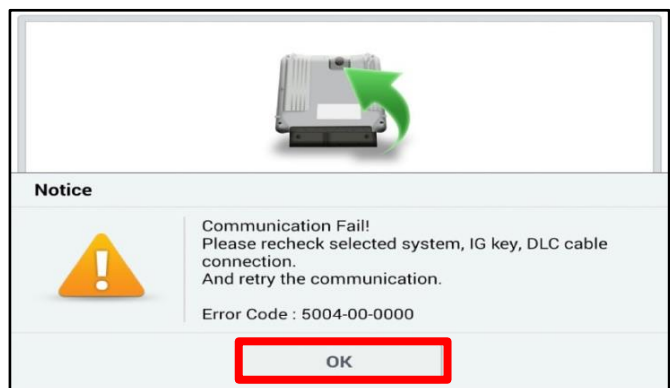
- The ECU upgrade will begin, and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.

CAUTION

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



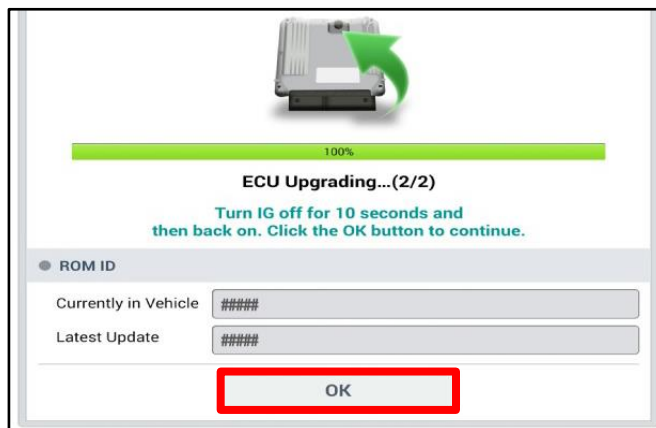
- If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select 'OK' and restart the from step 4.



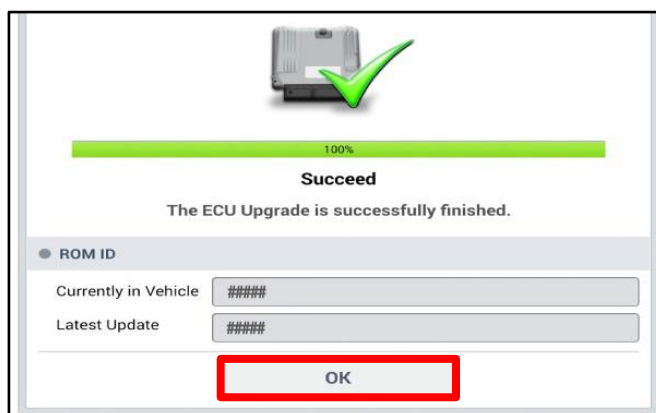
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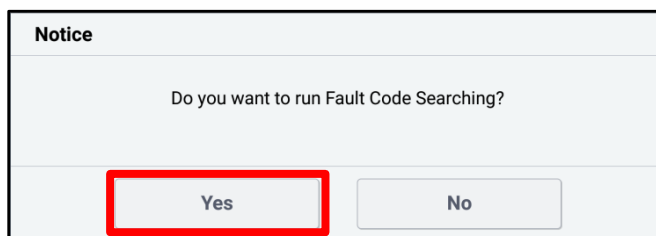
12. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Select **'OK'** to continue.



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



14. 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.



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

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

Event No. #	Menu	Password
#688	SG2 HEV MLM (AVN) : 92900-AT000	9290
	SG2 HEV MLM (PIO) : 92900-AT050	0500
	SG2 PHEV MLM (AVN) : 92900-AT100	0010
	SG2 EV MLM (AVN) : 92900-AO000	0092
	SG2 EV MLM (PIO) : 92900-AO050	0050
#689	CV MLM : 92900-CV001	0050

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **MLM** system under the System selection menu. Select **Upgrade Event #688 or #689** 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.

SUBJECT:

MOOD LAMP OPERATION LOGIC IMPROVEMENT (SA536)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Niro EV, P/HEV (SG2 EV, P/HEV)	April 14, 2023 to May 15, 2023
EV6 (CV)	April 18, 2023 to May 13, 2023

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

WARRANTY INFORMATION:**N Code: N99 C Code: C99**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
All	V	92900 AT000	0	(SA536) ROM ID Inspection	230044R1	0.2 M/H	N/A	0
SG2 HEV				(SA536) Mood Lamp Operation Logic Improvement	230044R0	0.3 M/H	N/A	0
SG2 PHEV								
SG2 EV								
CV								

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA536 when accessing the KDealer+ system.

