



GROUP	MODEL
ELE	2020-2021MY Niro HEV (DE HEV) Niro PHEV (DE PHV)
NUMBER	DATE
247	September 2021

## TECHNICAL SERVICE BULLETIN

SUBJECT: **SERVICE ACTION: HCU/LDC LOGIC IMPROVEMENT  
FOR P-DTC (SA484)**

This bulletin provides the procedure to update the software logic of the Hybrid Control Unit/Low Voltage DC/DC Converter (HCU/LDC) system on some 2020-2021MY Niro HEV (DE HEV) and Niro PHEV (DE PHEV) vehicles produced in the date ranges shown below, which may incorrectly set a Power Train Diagnostic Trouble Code (P-DTC). Follow the procedure outlined in this publication to apply the improved logic to the 'HCULDC' 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 2 of this bulletin.

Model	Production Date Range
Niro HEV (DE HEV)	October 20, 2020 to February 4, 2021
Niro PHEV (DE PHEV)	November 26, 2020 to January 22, 2021



Kia Diagnostic System (KDS)

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

**This issue number is SA484.**

**ECU Upgrade Procedure:**

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

## Upgrade Event Name

563. DE PE HEV/PHEV HCULDC P-DTC 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**

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 #563

Model	Model Year	System	ECU P/No.	ROM ID	
				Previous	New
DE HEV	2020	HCU/LDC	36600 2B190	GDEH0N6HNS0 K6D0_FF	GDEH0N6HNS0 K6D0_00
			36600 2B192	GDEH1N6HNS0 K6D0_FF	GDEH1N6HNS0 K6D0_00
	2021		36600 2B193	GDEH1N6HNS0 K8D0_FF	GDEH1N6HNS0 K8D0_00
			36600 2B592	GDEH1N6HNS0 K6N0_FF	GDEH1N6HNS0 K6N0_00
DE PHEV	2020		36600 2B195	GDEP0N6HNS0 K600_FF	GDEP0N6HNS0 K600_00
	2021		36600 2B196	GDEP1N6HNS0 K600_FF	GDEP1N6HNS0 K600_00

*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.*

**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**

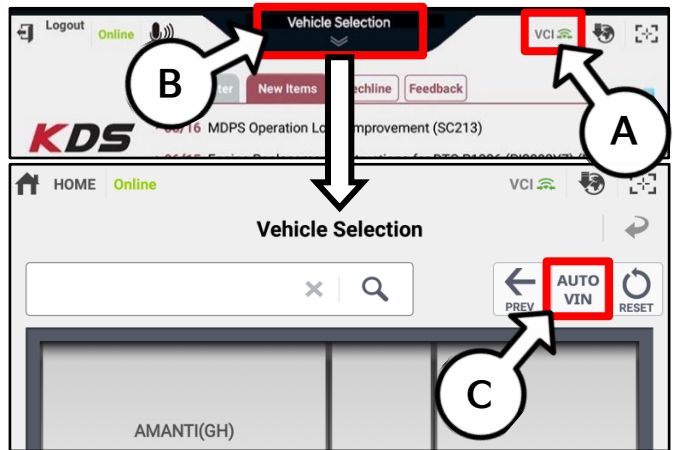
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



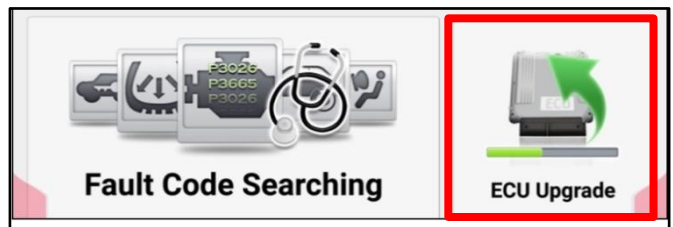
2. With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



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



4. Select 'ECU Upgrade'.



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- The KDS will check the server for recently uploaded Events and then automatically download Upgrade Event #563.

**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%

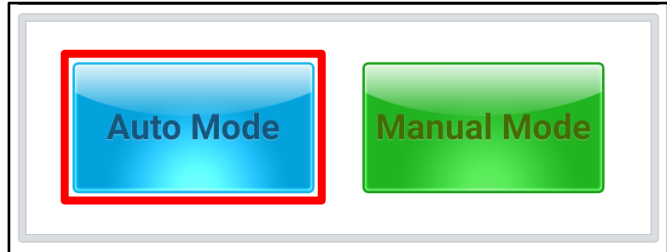
Do not touch any system buttons while performing this function.

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 'HCULDC' system under the System selection menu. Touch ID Check (D) and confirm that the latest update is available. Select Upgrade Event #563 and select Upgrade to continue.

System

HCULDC

ROM ID

Currently in Vehicle #####

Latest Update #####

ID Check

Event Group TSB

###.XX ----

Previous Upgrade

- 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.

**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.



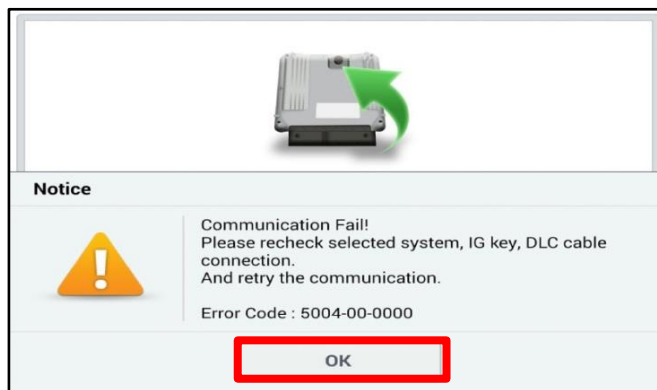
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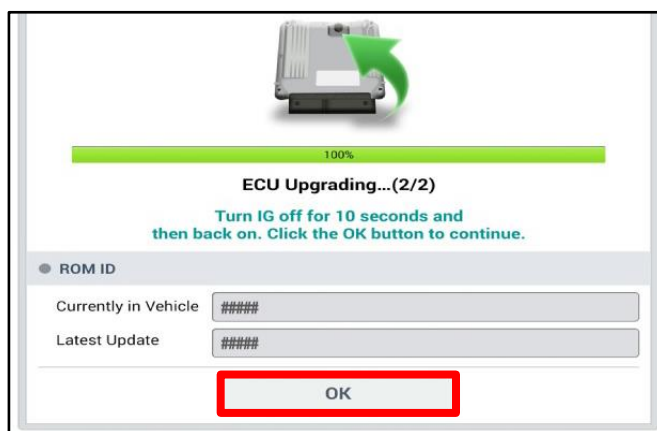
9. If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select 'OK' and restart the procedure from step 4.

**NOTICE**

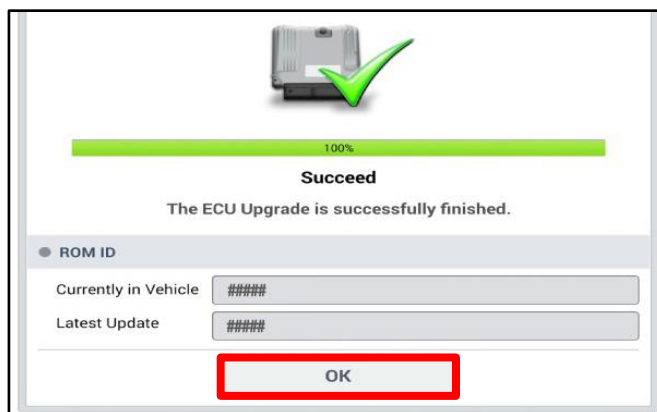
**If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.**



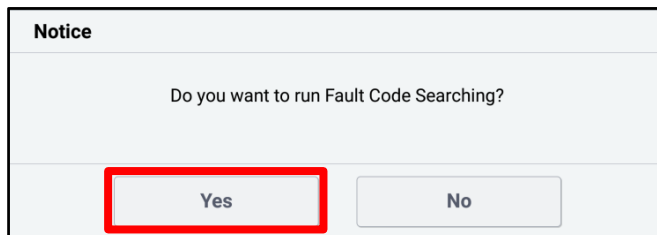
10. When instructed on the KDS, turn the ignition OFF for ten (10) seconds then back on. Select 'OK' to continue.



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, and TPMS that may have been set during the upgrade.



13. 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

Menu	Password
DE PE HEV HCULDC 20MY: 36600-2B190	2190
DE PE HEV HCULDC 21MY: 36600-2B192	2192
DE PE HEV HCULDC 21MY: 36600-2B193	2193
DE PE HEV HCULDC 21MY: 36600-2B592	2592
DE PE PHEV HCULDC 20MY: 36600-2B195	2195
DE PE PHEV HCULDC 21MY: 36600-2B196	2196

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the '**HCULDC**' system under the System selection menu. Select **Upgrade Event #563** and select **Upgrade** to continue.
3. Select the appropriate control unit part number with reference to the ROM ID Information Table on page 2, 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.

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**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Niro HEV (DE HEV)	October 20, 2020 to February 4, 2021
Niro PHEV (DE PHEV)	November 26, 2020 to January 22, 2021

**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.
DE HEV	V	36600 2B190	0	(SA484) HCU/LDC Logic Improvement	210101R0	0.5 M/H	N/A	0
DE PHEV								

**NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SA484** when accessing the WebDCS system.

