



GROUP	MODEL
TRA	2022-2024MY Sorento Plug-In Hybrid (MQ4 PHEV) with 1.6L T-GDI AWD
NUMBER	DATE
112	September 2025

TECHNICAL SERVICE BULLETIN

TRANSAXLE ASSEMBLY REPLACEMENT & HCU LOGIC IMPROVEMENT

SUBJECT:

This bulletin provides information to replace the transaxle assembly and upgrade the Hybrid Control Unit Low-Voltage DC Converter (HCULDC) software on some 2022-2024MY Sorento Plug-In Hybrid (MQ4 PHEV) vehicles equipped with a 1.6L T-GDI engine and All-Wheel Drive (AWD), produced from June 29, 2021 through January 10, 2024. Some vehicles may experience an illuminated Malfunction Indicator Lamp (MIL) with DTC POC4E00 stored, accompanied by a rough transition when the vehicle switches between EV and HEV motive power. Follow the procedure outlined in this publication to replace the transaxle assembly and upgrade the HCULDC system software for the applicable vehicle exhibiting an MIL 'ON' with DTC POC4E00 stored.

DTC Description:

POC4E00 - Drive Motor "A" Position Exceeded Learning Limit



NOTICE

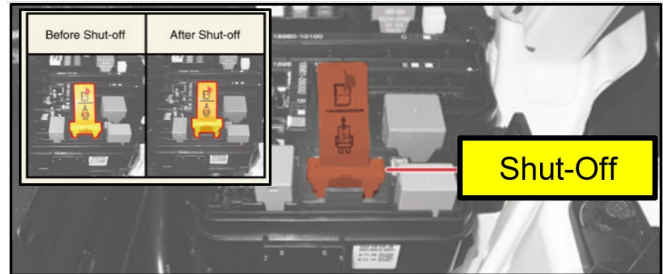
A Technical Service Bulletin is a field fix repair program without customer notification that may be performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Replacement Procedure:

ⓘ IMPORTANT

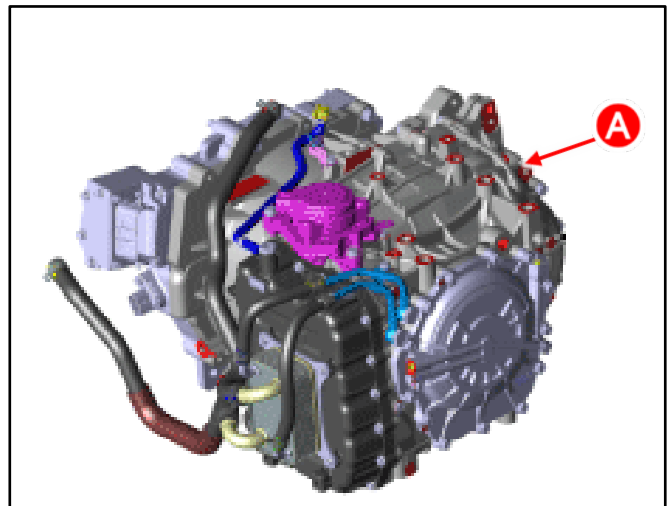
A **Vehicle Diagnosis Number (VDN)** must be created prior to replacement of the transaxle assembly. If a VDN is not created, Parts Ordering and Warranty claim submission issues WILL occur.

1. Perform the '**High Voltage Shut-Off Procedure**' by referring to "Body Electrical System → High Voltage Shut-Off Procedures → High Voltage Shut-Off Procedures (**Steps 1-4**)" in the applicable Shop Manual on KGIS.



2. Replace the Automatic Transaxle Assembly (A) by referring to "Automatic Transaxle System → Automatic Transaxle System → Repair procedures" in the applicable Shop Manual on KGIS.

Note: AWD (also referred to as 4WD)



3. Reinstall all removed parts in reverse order of removal.
4. Proceed to the 'ECU Upgrade Procedure' on page 3.

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ECU Upgrade Procedure:

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

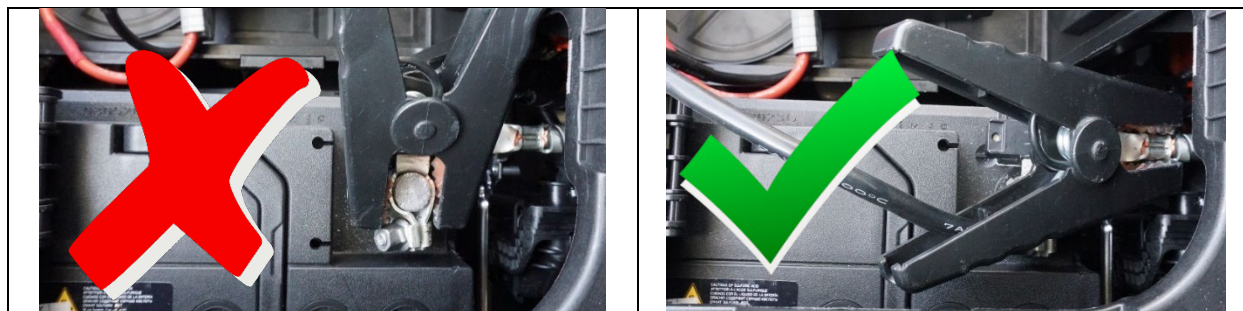
Upgrade Event Name

733.MQ4 PHEV HCULDC Operation 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.

[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.

ROM ID Information Table:

Upgrade Event #733

ⓘ 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.

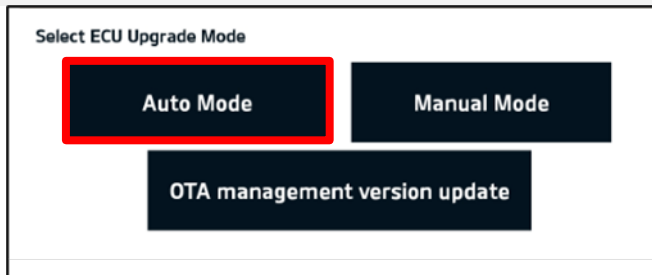
Model	System	IMMO	 ECU P/No.	ROM ID	
				Previous	New
MQ4 PHEV (AWD)	HCULDC	YES	36600 3DBG5	GMQC2N6PNS0C000 GMQC2N6PNS1C000 GMQC2N6PNS C000	GMQC2N6PNS3 C000

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.

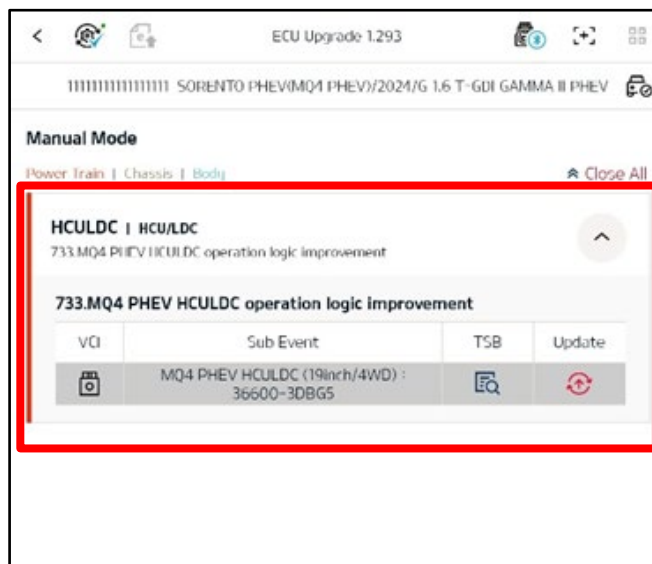
Menu	Password
MQ4 PHEV HCULDC (19inch/4WD): 36600-3DBG5	6600

UPGRADE EVENT:

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

- **733.MQ4 PHEV HCULDC Operation Logic Improvement**

Verify the affected vehicle Calibration Identification of the applicable ECU ROM ID and reference the Information Table on page 4 as necessary.


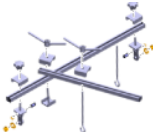
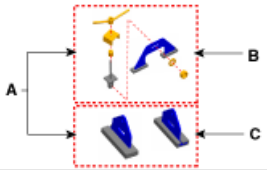



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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Sorento PHEV (MQ4 PHEV)	June 29, 2021 to January 10, 2024

REQUIRED TOOLS:

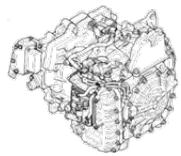









Tool Name	SST #	Figure	Comments
KDS	N/A		Kia Diagnostic System
Engine Support Fixture (bar)	09200 3N000		Located SHOP
Engine Support Fixture (supporter)	A: 09200 2S000		Located SHOP
	B: 09200 2S100		
	C: 09200 2S200		
Engine Support Fixture (adapter)	09200 2W000		Located SHOP



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REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comments
Transaxle Assembly	45000 3D520R		1	N/A
Lock Nut	55259 2M000		2	N/A
Split Pin	57799 4D200		2	N/A
Castle Nut	49551 4T000		2	N/A
Retaining Ring	49557 F2000		2	N/A
Steering Column Shaft Bolt	56415 L1000		1	N/A
Front Propeller Shaft Bolts	49319 2B000		4	N/A
Rear Propeller Shaft Bolts	49129 L8000		3	N/A
ATF Plug Gasket	21513 11000		1	N/A
ATF Oil Level Plug Gasket	45285 3B010		1	N/A
Engine Coolant	UM022 CH271	N/A	1	Concentrate
Hybrid Coolant	UM022 CH270	N/A	2	DO NOT Mix Coolant. Check the color of The coolant in the reservoir before replacing.
ATF Fluid	UM022 CH269	N/A	7 qt.	MUST be ordered Through Kia Chemicals

WARRANTY INFORMATION:**N Code: B15 C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	36600 3DBG5	0	VDN Scan + Transaxle Assembly Replacement + HCU Logic Improvement	36601F04	5.0 M/H	45000 3D520R	1
						55259 2M000	2
						57799 4D200	2
						49551 4T000	2
						49557 F2000	2
						56415 L1000	1
						49319 2B000	4
						49129 L8000	3
						21513 11000	1
						45285 3B010	1
						UM022 CH271	1
						UM022 CH270	2
UM022 CH269	7						

Note: For Substitute Transportation policy, please refer to Service Policy and Procedures Manual (SPPM) 6.11 "Kia Substitute Transportation". A **Vehicle Diagnosis Number (VDN)** must be created prior to replacement of the transaxle assembly. If a VDN is not created, Parts Ordering and Warranty claim submission issues **WILL** occur.