



GROUP	MODEL
ELE	2022MY K5 (DL3a)
NUMBER	DATE
262	September 2022

TECHNICAL SERVICE BULLETIN

SUBJECT:

IBU LOGIC IMPROVEMENT FOR SMART KEY BATTERY DRAIN

This bulletin provides the procedure to update the software logic of the Integrated Body Control Unit (IBU) system on some 2022MY K5 (DL3a) vehicles produced from April 27, 2021 through May 12, 2022, which may exhibit excessive discharge of the smart key battery. Follow the procedure outlined in this publication to apply the improved logic to the 'IBU' system using the KDS ECU Upgrade function as described in this bulletin and replace the batteries on both of the customer's key fobs. 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.



Kia Diagnostic System (KDS)

ECU Upgrade Procedure:

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

Upgrade Event Name
621. DL3a IBU UPGRADE FOR SMART KEY 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 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.

SUBJECT:

IBU LOGIC IMPROVEMENT FOR SMART KEY BATTERY DRAIN**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 #621**

Model	EM	ECU P/No.	ROM ID	
			Previous	New
DL3a (GT)		954B0 L3500	2.07 2.08	2.09
		954B0 L3510		
		954B0 L3520		
		954B0 L3530		
		954B0 L3560		
		954B0 L3570		
		954B0 L3580		
		954B0 L3590		
		954B0 L3740		
		954B0 L3750		
		954B0 L3780		
954B0 L3790				
DL3a	IBU (Integrated Body Control Unit)	954B0 L3320	1.12 1.13	1.14
		954B0 L3330		
		954B0 L3340		
		954B0 L3350		
		954B0 L3370		
		954B0 L3380		
		954B0 L3410		
		954B0 L3420		
		954B0 L3430		
		954B0 L3440		
		954B0 L3460		
		954B0 L3470		
		954B0 L3620		
		954B0 L3630		
		954B0 L3650		
		954B0 L3680		
954B0 L3690				
954B0 L3710				

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

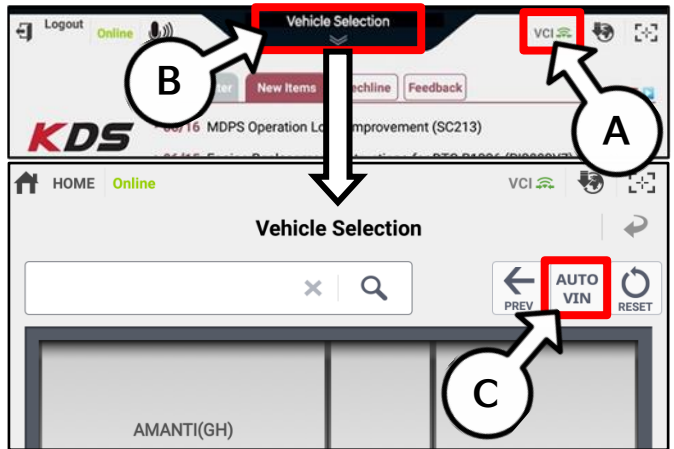
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



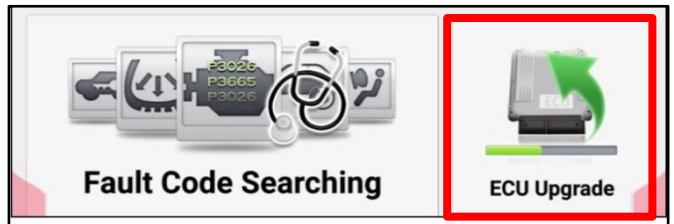
2. With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



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



4. Select 'ECU Upgrade'.



SUBJECT:

IBU LOGIC IMPROVEMENT FOR SMART KEY BATTERY DRAIN

- The KDS will check the server for recently uploaded Events and then automatically download Upgrade Event #621.

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 IBU-SMK system under the System selection menu. Touch ID Check (D) and confirm that the latest update is available. Select Upgrade Event #621 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.

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)

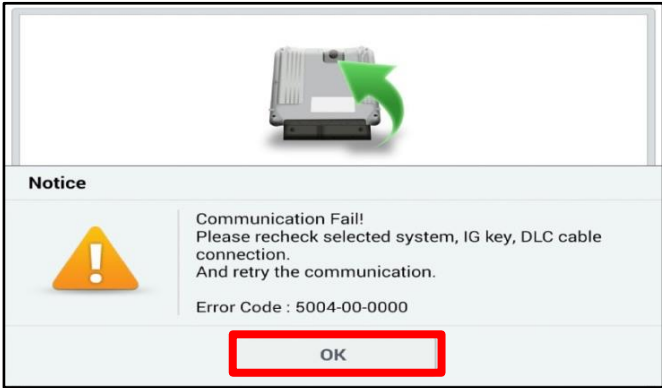
ECU is in the process of being upgraded. Please wait a few minute.

SUBJECT: **IBU LOGIC IMPROVEMENT FOR SMART KEY BATTERY DRAIN**

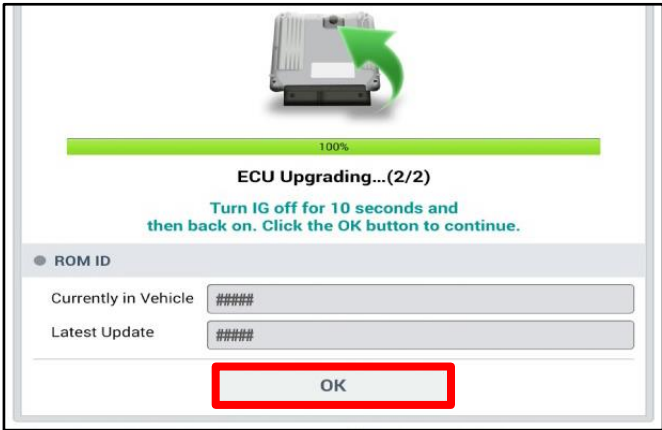
- If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select 'OK' and restart the procedure from step 4.

NOTICE

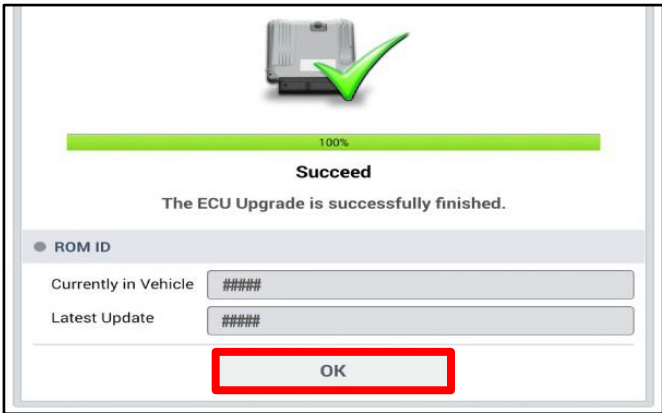
If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



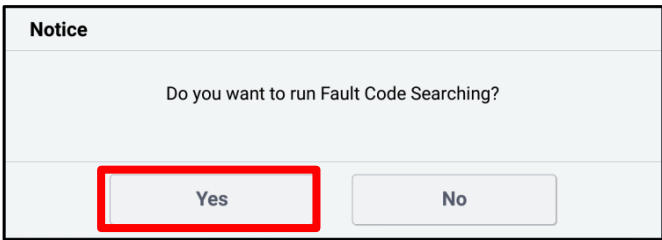
- When instructed on the KDS, turn the ignition OFF for ten (10) seconds then back on. Select 'OK' to continue.



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



- 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.



- Replace both smart key batteries (maximum of 2 per vehicle).
- 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
DL3a GT IBU: 954B0-L3500~530, L3560~590, L3740~750, L3780~790	3790
DL3a IBU: 954B0-L3320~350, L3370~380, L3410~440, L3460~470, L3620~630, L3650, L3680~690, L3710	3710

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **IBU-SMK** system under the System selection menu. Select **Upgrade Event #621** 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. Replace both smart key batteries (maximum of 2 per vehicle).
10. Start the engine to confirm proper operation of the vehicle.

SUBJECT:


IBU LOGIC IMPROVEMENT FOR SMART KEY BATTERY DRAIN**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
K5 (DL3a)	April 27, 2021 to May 12, 2022

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Transmitter Battery	95430 U2032		2

WARRANTY INFORMATION:**N Code: I14 C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	95400 L3600	0	IBU Logic Improvement for Smart Key <u>and</u> FOB Battery Replacement	954BOQ0A	0.4 M/H	95430 U2032	2