	GROUP	MODEL		
	Safety Recall Campaign	2022MY EV6 (CV)		
	NUMBER	DATE		
	SC236	May 2022		
SAFETY RECALL CAMPAIGN				
SHIFTER CONTROL UNIT (SCU)				
SUBJECT: LOGIC IMPRO	OVEMENT (SC236)			

This bulletin provides information to update the Shifter Control Unit (SCU) software logic on certain 2022MY EV6 (CV) vehicles produced from November 17, 2021 through April 7, 2022. The subject vehicles are equipped with a Shift-By-Wire system that contains a Shifter Control Unit (SCU) and a parking pawl actuator motor. If a voltage fluctuation occurs when the vehicle is 'OFF' and in the 'PARKED' position, the command signal from the SCU to the parking pawl actuator may be affected, resulting in the temporary disengagement of the parking mechanism and potential vehicle rollaway. Vehicle rollaway increases the risk of a crash and/or injuries. Follow the procedure outlined in this publication to update the SCU software to prevent any temporary disengagement of the parking mechanism. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



Kia Diagnostic System (KDS)

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service \rightarrow Warranty Coverage \rightarrow Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

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. SUBJECT:

SHIFTER CONTROL UNIT (SCU) LOGIC IMPROVEMENT (SC236)

ECU Upgrade Procedure:

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

Upgrade Event Name

615. CV SCU OPERATION LOGIC IMPROVEMENT

NOTICE

- Confirm a <u>fully charged battery</u> (12.3 volts or higher is necessary) is used <u>or</u> 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 press the 'EV' button 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.

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 #615

Model System IMMO <	System			ROM ID		
	LCO F/NO.	Previous	New			
EV6 (CV)	SCU	Yes	42951 18150	ECV1XXXXLXE15XS0 ECV1XXXXLXE17XS1	ECV1XXXXXE19XS2	

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.

2a. Press the vehicle's **'EV'** button.

Note: Ensure that the 'READY' indicator is NOT displayed ON.

- 2b. 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.







4. Select 'ECU Upgrade'.



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SUBJECT:

SHIFTER CONTROL UNIT (SCU) LOGIC IMPROVEMENT (SC236)

5. The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event #615**.

The vehicle must be identified in Vehicle Selection to download an Event for that vehicle.

6. Select Auto Mode.

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.

7. Select the **SCU** system under the System selection menu.

Under Event Group, select Event #615 (D) to continue.





🛱 EV6(CV) > 2022 > 160kW (2WD) / 70+160kW (AWD)	
System	
	>
Event Group	тѕв
615.CV SCU OPERATION LOGIC IMPROVEMENT	F
CV SCU : 42951-18150	

 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.

Do not touch the system buttons (like

'Home',

performing ECU Upgrade.

'Back',



Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information. TSB: SC236 EV6 (CV) May 2022

'etc.')

while



SUBJECT:

SHIFTER CONTROL UNIT (SCU) LOGIC IMPROVEMENT (SC236)

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

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.

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.

Notice				
Do you want to run Fault Code Searching?				
	Yes	No		

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







SUBJECT:

SHIFTER CONTROL UNIT (SCU) LOGIC IMPROVEMENT (SC236)

Manual Upgrade Procedure:

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
CV SCU : 42951-18150	8150

- 1. Within the ECU Upgrade screen displayed, select Manual Mode.
- 2. Select the SCU system under the System selection menu. Select Upgrade Event #615 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.

SHIFTER CONTROL UNIT (SCU) LOGIC IMPROVEMENT (SC236)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
EV6 (CV)	November 17, 2021 to April 7, 2022

REQUIRED TOOL:

SUBJECT:

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.
R	42951 18150	0	(SC236) SCU UPGRADE	221058R0	0.3 M/H	N/A	0

Refer to Warranty Bulletin 2022-15 for claim submission procedures.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference <u>SC236</u> when accessing the WebDCS system.