



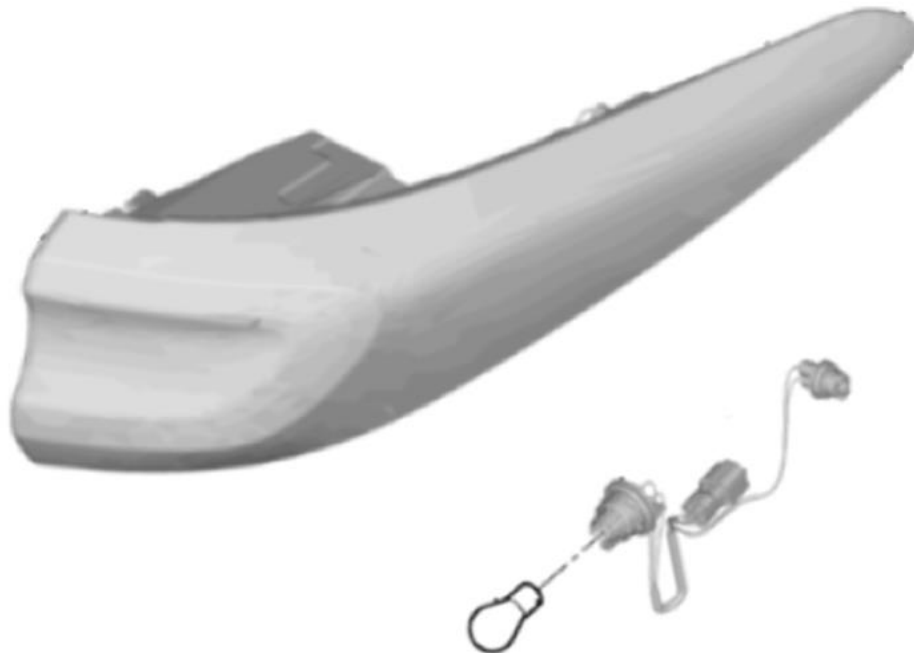
GROUP	MODEL
ELE	2020-2022MY Sportage (QL)
NUMBER	DATE
299	June 2023

TECHNICAL SERVICE BULLETIN

REAR COMBINATION LAMP INSPECTION AND SOFTWARE UPGRADE

SUBJECT:

This bulletin provides the procedure to inspect, and if necessary, replace the rear combination lamp holder and wire harness, and update the software logic of the Smart Junction Block (SJB) system on some 2020-2022MY Sportage (QL) vehicles produced from December 27, 2018 through December 7, 2021 equipped with a halogen bulb taillamp assembly. In some vehicles, the Master Warning Light may illuminate and display the message "Check brake light" on the instrument cluster, even if the brake light bulb is working properly. Follow the procedure outlined in this publication to apply the improved logic to the 'SJB' 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 4 of this bulletin.



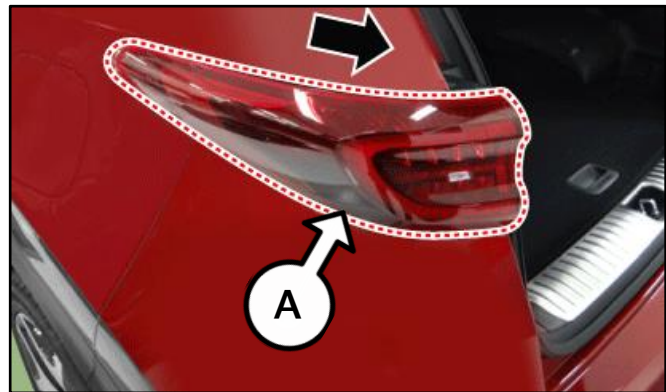
Replacement Procedure:

1. Confirm customer concern of the 'Master Warning Light' and/or the "Check brake light" message are displayed on the instrument cluster.



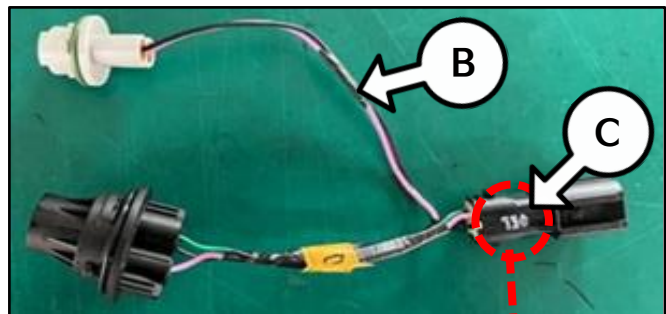
2. Remove both left and right rear combination lamps (A) by referring to "Body Electrical System → Lighting System → Rear Combination Lamp → Repair procedures" in the applicable Shop Manual on KGIS.

Note: This TSB does not apply to vehicles equipped with LED Taillamp assemblies.



- 3a. Remove both left and right rear combination lamp holder and wiring harnesses (B).

Locate the LOT No. (C) printed on the connector.



- 3b. Refer to LOT No. Chart on page 3.

- If the LOT No. is **before** April 1, 2019, replace the rear combination lamp holder and wiring harness.
- If the LOT No. is **on or after** April 1, 2019, the rear combination lamp holder and wiring harness does not need to be replaced.



SUBJECT:

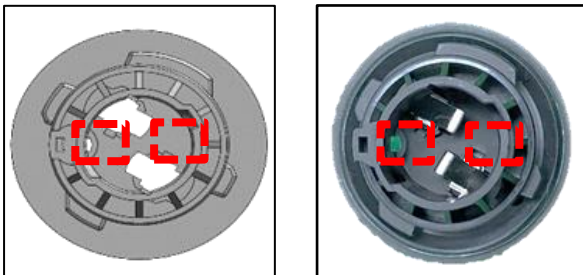
REAR COMBINATION LAMP INSPECTION AND SOFTWARE UPGRADE

LOT No. Chart						
First Letter	Second Letter		Third Letter			
Year	Month		Date			
K: 2015	A: January	G: July	A: 1	I: 9	Q: 17	Y: 25
L: 2016	B: February	H: August	B: 2	J: 10	R: 18	Z: 26
M: 2017	C: March	I: September	C: 3	K: 11	S: 19	1: 27
N: 2018	D: April	J: October	D: 4	L: 12	T: 20	2: 28
O: 2019	E: May	K: November	E: 5	M: 13	U: 21	3: 29
P: 2020	F: June	L: December	F: 6	N: 14	V: 22	4: 30
Q: 2021			G: 7	O: 15	W: 23	5: 31
R: 2022			H: 8	P: 16	X: 24	

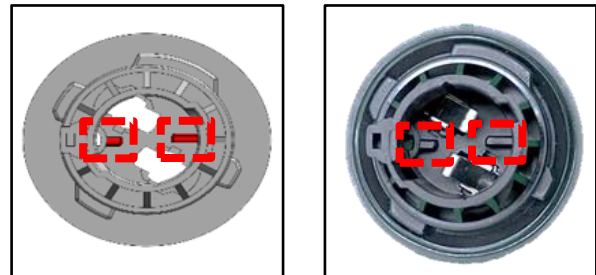
If the LOT No. is unclear and difficult to read, inspect if the bulb socket is/is not equipped with a bulb stopper.

- If the bulb socket is **not** equipped with a bulb stopper, replace the rear combination lamp holder and wiring harness.
- If the bulb socket **is** equipped with a bulb stopper, the rear combination lamp holder and wiring harness **does not** need to be replaced.

No Bulb Stopper



With Bulb Stopper



ECU Upgrade Procedure:

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

Upgrade Event Name

684.QL PE SJB UPGRADE FOR REAR LAMP DTC JUDGMENT LOGIC

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.

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REAR COMBINATION LAMP INSPECTION AND SOFTWARE UPGRADE

 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 #684

Model	EM	ECU P/No.	ROM ID	
			Previous	New
QL PE	SJB	91955 D9510		
		91955 D9530		
		91955 D9550		
		91955 D9570		
		91955 D9590		
		91955 D9610		
		91955 D9630		
		91955 D9650		
		91955 D9670		
		91955 D9690		
		91955 D9710	3.03.0	
		91955 D9730	3.03.1	
		91955 D9750	3.04.0	3.04.2
		91955 D9770	3.04.1	
		91955 D9790		
		91955 D9810		
		91955 D9830		
		91955 D9850		
		91955 D9870		
		91955 D9890		
91955 D9910				
91955 D9930				
91955 D9950				
91955 D9970				

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

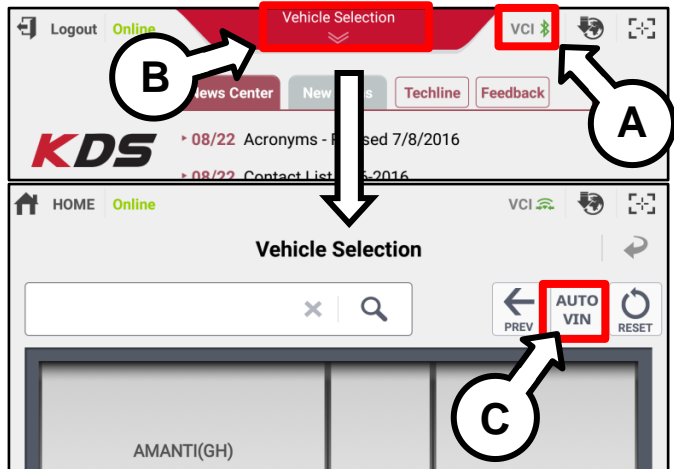
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



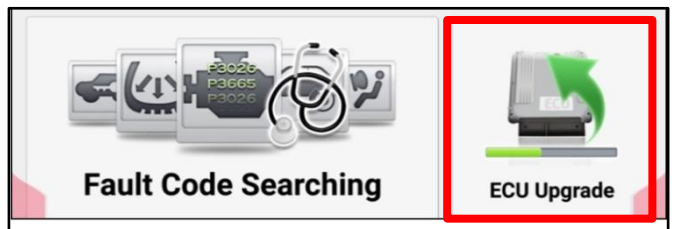
2. With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



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 #684.

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.

Auto Mode Manual Mode

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

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

Select Upgrade Event #684 and select Upgrade to continue.

System

ABS/ESP BCM FR_CMR SJB

ROM ID

Currently in Vehicle ##### ID Check

Latest Update #####

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%

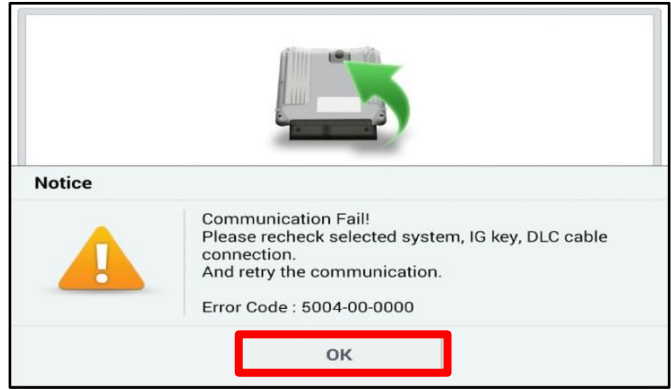
ECU Upgrading...(2/2)

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

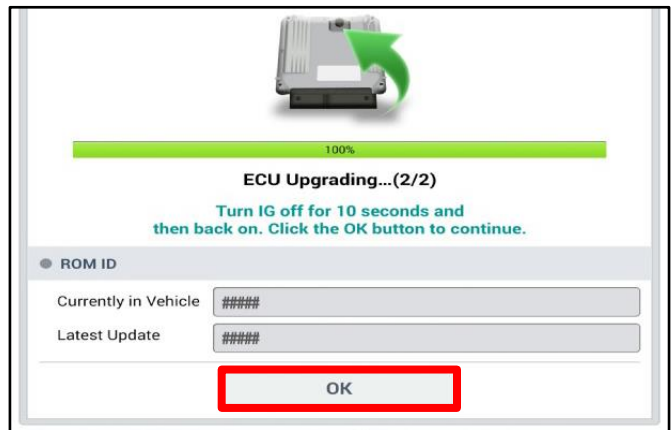
- If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Select 'OK' and restart the from step 4.

NOTICE

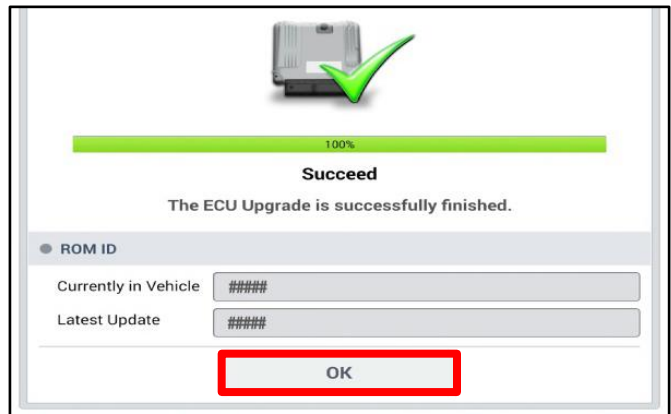
If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



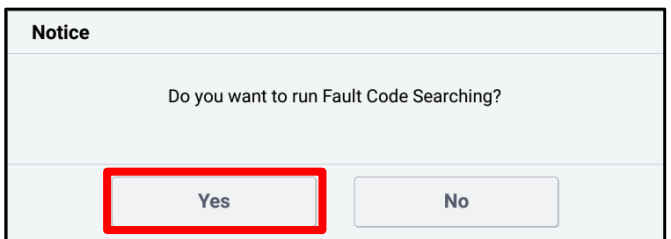
- When instructed on the KDS, turn the ignition OFF for ten (10) seconds then back on. Select 'OK' to continue.



- 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.



- 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
QL PE SJB : 91955-D9**0	5591

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **SJB** system under the System selection menu. Select **Upgrade Event #684** 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:


REAR COMBINATION LAMP INSPECTION AND SOFTWARE UPGRADE**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Sportage (QL)	December 27, 2018 to December 7, 2021

REQUIRED TOOL:

Tool Name	Figure	Comments
KDS		Kia Diagnostic System

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Lamp Holder and Wiring Harness	92480 D9510		1 <u>or</u> 2 as needed

WARRANTY INFORMATION:**N Code: W11 C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	92480 D9510	N/A	Inspection + Stop Lamp Warning Logic Improvement	92480F00	0.5 M/H	N/A	N/A
		1	Bulb & Harness Replacement (One Side) + Stop Lamp Warning Logic Improvement	92480F01	0.6 M/H		
		2	Bulb & Harness Replacement (Both Sides) + Stop Lamp Warning Logic Improvement	92480F02			