	GROUP <b>TRA</b>	MODEL <b>2017-2018MY Sportage (QL) 2.4L</b>
	NUMBER <b>076</b>	DATE <b>April 2019</b>
<b>TECHNICAL SERVICE BULLETIN</b>		
<b>SUBJECT: 2.4GDI TCU LOGIC IMPROVEMENT FOR SHIFT FLARE</b>		

This bulletin provides the procedure to improve the logic of the Transmission Control Unit (TCU) on some 2017-2018MY Sportage (QL) 2.4L vehicles, produced from December 10, 2015 through April 5, 2018, which may experience an intermittent shift flare concern. To correct this concern, apply the improved logic to the TCU 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.



Kia Diagnostic System (KDS)

**File Under: <Transmission>**

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**Circulate To:**     **General Manager**     **Service Manager**     **Parts Manager**  
 **Service Advisors**     **Technicians**     **Body Shop Manager**     **Fleet Repair**

**ECU Upgrade Procedure:**

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


**Upgrade Event Name**

415. QL THETA 2.4GDI 6AT TCU UP-SHIFT FLARE IMPROVEMENT

**\* NOTICE**

- A fully charged battery is necessary before ECU upgrade can take place. It is recommended that the Midtronics GR8-1299 system be used in ECU mode during charging. **DO NOT** connect any other battery charger to the vehicle during ECU upgrade.
- All ECU upgrades must be done with the ignition key in the 'ON' position.
- 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 model, year.

**\* NOTICE**

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the particular 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 #415**

Model	EM	TM	Drive	ECU P/No.	ROM ID	
					Previous	New
QL	2.4 GDI	6AT	2WD	39100-2GHR5 39100-2GHR6 39100-2GHS0 39100-2GHS1 39100-2GHT5 39100-2GHT6 39100-2GHV0 39100-2GHV1	TQL2G24NS0 TQL2G24NS1 TQL2G24NS2	TQL2G24N10
			AWD	39100-2GHS5 39100-2GHS6 39100-2GHT0 39100-2GHT1 39100-2GHV5 39100-2GHV6 39100-2GHW0 39100-2GHW1	TQL4G24NS0 TQL4G24NS1 TQL4G24NS2	TQL4G24N10

*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.*

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**\* 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**

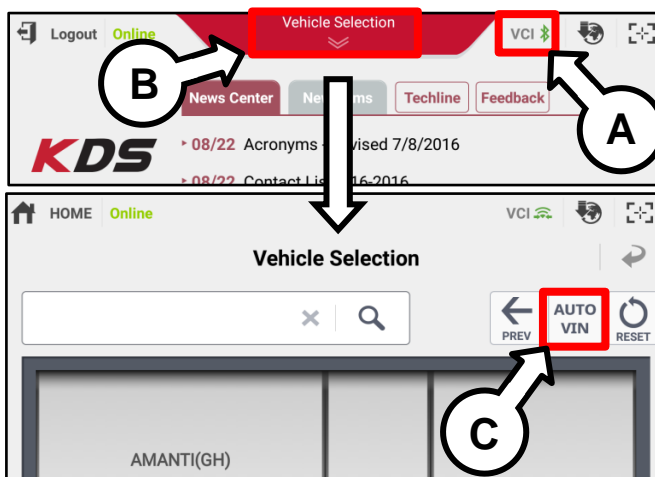
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



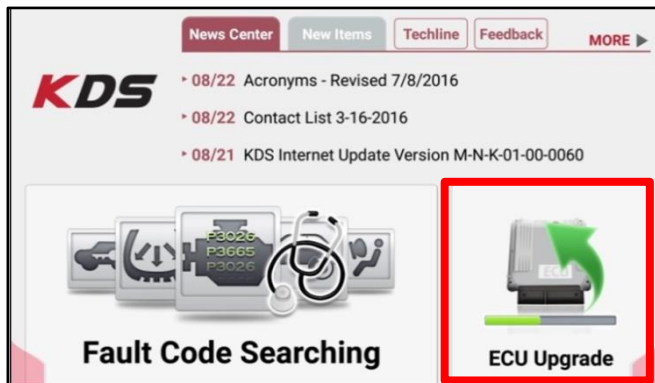
2. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.



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



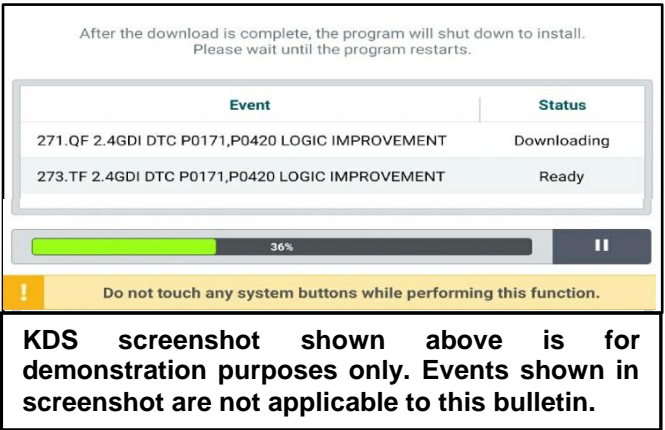
4. Select **ECU Upgrade**.



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- The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event #415**.

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



- Select **Auto Mode**.

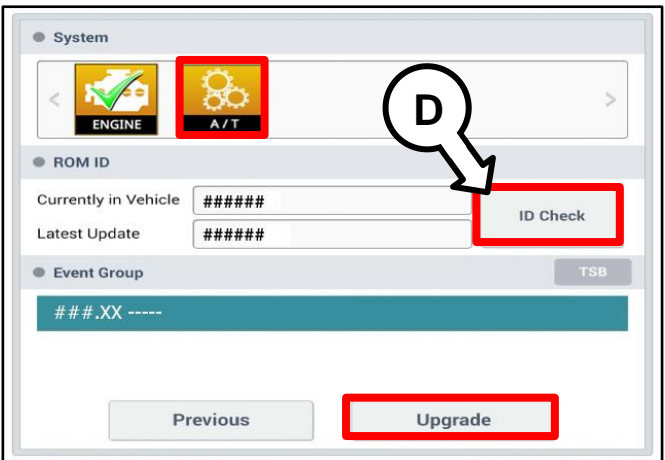
**CAUTION**  
 Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.



- Select the **A/T** system under the System selection menu.

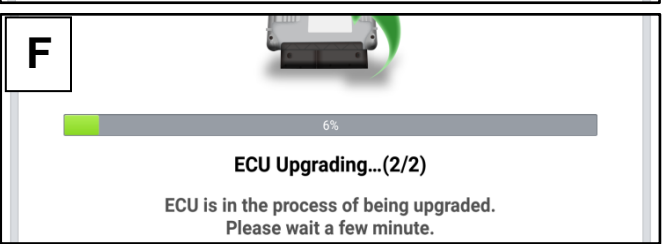
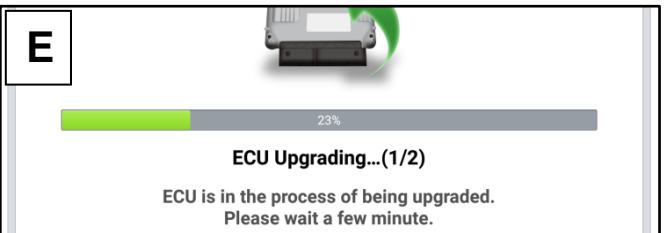
Touch **ID Check** (D) and confirm that the latest update is available.

Select **Upgrade Event #415** 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.



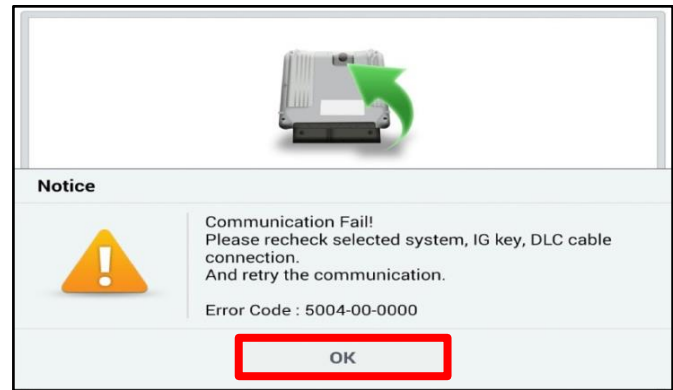
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## 2.4GDI TCU LOGIC IMPROVEMENT FOR SHIFT FLARE

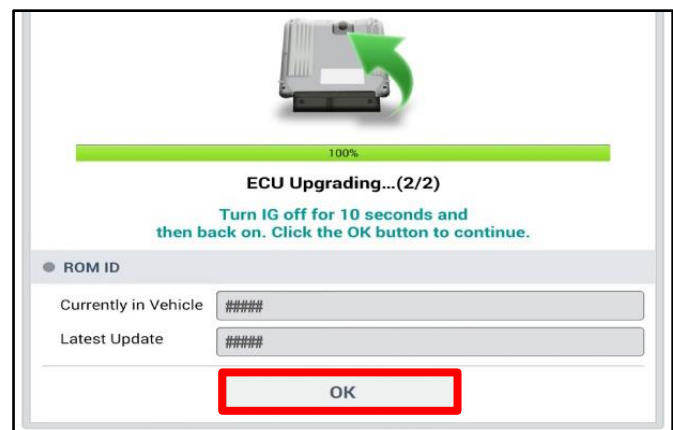
9. If a “Communication Fail” screen appears, verify that the VCI-II and KDS are communicating properly. Touch **OK** and restart the procedure from step 4.

**\* NOTICE**

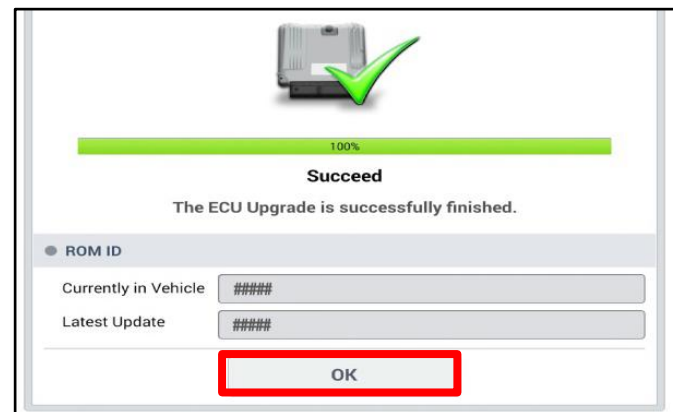
If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



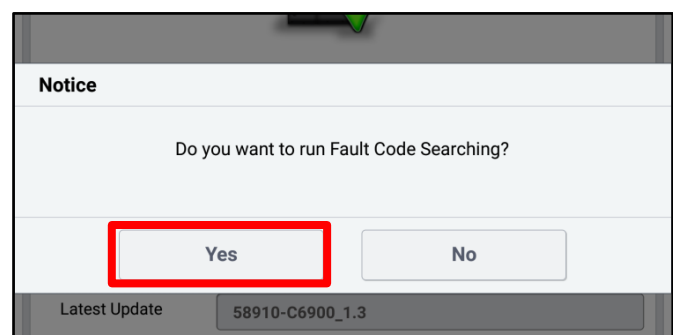
10. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.



11. Once the upgrade is complete, touch **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 proper 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 THETA 2.4GDI 6AT TCU (2WD) : 39100-2GHR5/R6/S0/S1/T5/T6/V0/V1	5050
QL THETA 2.4GDI 6AT TCU (4WD) : 39100-2GHS5/S6/T0/T1/V5/V6/W0/W1	5051

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **A/T** system under the System selection menu. Select **Upgrade Event #415** 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. Touch **OK** to continue.
7. Once the upgrade is complete, touch **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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## 2.4GDI TCU LOGIC IMPROVEMENT FOR SHIFT FLARE

## AFFECTED VEHICLE RANGE:

Model	Production Date Range
Sportage (QL)	December 10, 2015 through April 5, 2018

## WARRANTY INFORMATION:

**N Code: T41 C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	Refer to EPC	0	2.4L TCU Logic Improvement for Shift Flare	39110F18	0.3 M/H	N/A	0