



GROUP	MODEL
Voluntary Emissions Service Campaign	2021-2024MY K5 (DL3a) w/1.6L T-GDI
NUMBER	DATE
SC288 (Rev 1, 5/20/2024)	April 2024

## VOLUNTARY EMISSIONS SERVICE CAMPAIGN

SUBJECT:

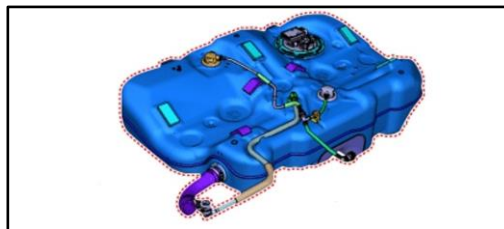
### FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

#### NOTICE

**This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.**

This bulletin provides information to inspect the fuel evaporative system and, if necessary, replace the fuel tank and/or the Purge Control Solenoid Valve (PCSV) check valve on certain 2021-2024MY K5 (DL3a) vehicles equipped with a Gamma II 1.6L T-GDI engine, produced from March 27, 2020 through October 17, 2023. This bulletin also provides information to upgrade the ECU software logic. The subject vehicles may experience fuel tank swelling due to an issue with the PCSV check valve, which results in pressurized air to flow into the fuel tank. This may cause the Check Engine Light to illuminate, and in some cases, the engine to run rough, and/or an inability to refuel. These conditions may cause the vehicle to release air pollutant which exceed Federal and California standards.

Please note the replacement part(s) are not yet available. As soon as replacement part(s) become available, this Technical Service Bulletin (TSB) will be updated with the proper inspection/replacement procedure, replacement part(s) and labor op code information. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



#### NOTICE

**Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.**

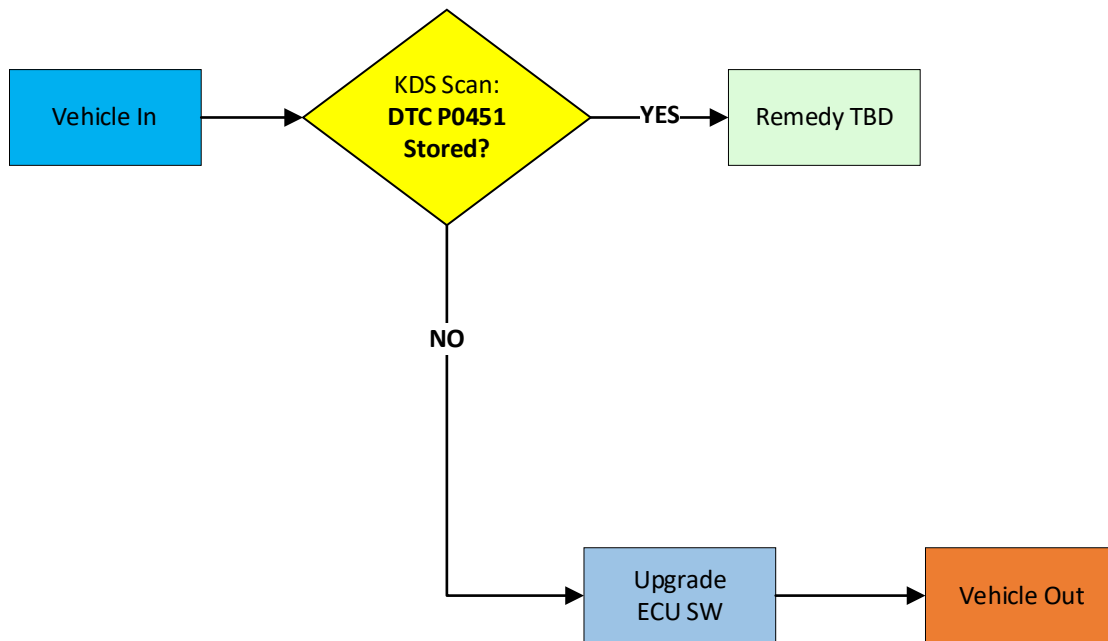
A printed copy is for reference only; publication information can be updated at any time. Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

## FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

### Flowchart:

Follow the flowchart below to inspect and repair the vehicle. Using KDS, scan for the related DTC P0451.

- If the related DTC stored **is not P0451**, then repair the vehicle first for the existing concern.
- After completing the repair for a Non-Related DTC, return to the flowchart below to complete this campaign.



**Path 1:** Vehicle IN → Related DTC stored (NO) → Upgrade ECU SW → Vehicle OUT

**Path 2:** Vehicle IN → Related DTC stored (YES) → Remedy TBD

### **ⓘ IMPORTANT**

Vehicles with DTC P0451 stored **will need to be parked** until this TSB is revised to include the repair procedure.

SUBJECT:

## FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

### Inspection Procedure:

1. Using KDS, scan the ECU on the affected vehicle for DTC P0451:

- If DTC P0451 is not stored, proceed to upgrade the ECU software only. No further inspection is required.
- If DTC P0451 is stored.

Wait for an updated TSB with the repair procedure. This service campaign cannot be closed at this time.

### ⓘ IMPORTANT

If the related DTC stored is NOT P0451, then repair the vehicle first for the existing concern. After completing the repair for a Non-Related DTC, return to the flowchart below to complete this campaign.

### ⓘ IMPORTANT

Vehicles with DTC P0451 stored will need to be parked until this TSB is revised to include the repair procedure.

SUBJECT:

## FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

### ECU Upgrade Procedure:

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in TSB [SST081](#).

#### Upgrade Event Name

706.DL3a Gamma 1.6TGDI ECU Logic Improvement for Preventing Fuel Tank Pressure Increase

#### 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.

#### NOTICE

If a 'Communication Fail' error notice appears or the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.

#### NOTICE

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer  (IMMO) 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.

SUBJECT:

## FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

### ROM ID INFORMATION TABLE:

Upgrade Event #706

MY	IMMO	ISG	Type	ECU P/No.	ROM ID	
					Previous	New
21MY	Yes	ISG	2WD	39121 2MKKO	TDLA1NU06F022E0K TDLA1NU06F122E0K TDLA1NU06F223E0K TDLA1NU06F424E0K TDLA1NU06F524E0K TDLA1NU06F52FE0K	TDLA1NU06F6FBEOK
	No	ISG	2WD	39123 2MKKO	TDLA1NU06E022E0K TDLA1NU06E122E0K TDLA1NU06E223E0K TDLA1NU06E424E0K TDLA1NU06E524E0K TDLA1NU06E52FE0K	TDLA1NU06E6FBEOK
	Yes	NON-ISG	2WD	39121 2MKTO	TDLA1NU06F022E03 TDLA1NU06F122E03 TDLA1NU06F223E03 TDLA1NU06F424E03 TDLA1NU06F524E03 TDLA1NU06F52FE03	TDLA1NU06F6FBEO3
	No	NON-ISG	2WD	39123 2MKTO	TDLA1NU06E022E03 TDLA1NU06E122E03 TDLA1NU06E223E03 TDLA1NU06E424E03 TDLA1NU06E524E03 TDLA1NU06E52FE03	TDLA1NU06E6FBEO3
	Yes	NON-ISG	4WD	39121 2MKVO	TDLA1NU06F026K03 TDLA1NU06F126K03 TDLA1NU06F12FK03	TDLA1NU06F2FBK03
	No	NON-ISG	4WD	39123 2MKVO	TDLA1NU06E026K03 TDLA1NU06E126K03 TDLA1NU06E12FK03	TDLA1NU06E2FBK03

*Continued on page 6.*

*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.*



**SUBJECT: FUEL TANK AND/OR PCSV CHECK VALVE  
INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)**

**ROM ID INFORMATION TABLE:**

**Upgrade Event #706**

MY	IMMO	ISG	Type	ECU P/No.	ROM ID	
					Previous	New
22MY	Yes	ISG	2WD	39121 2MKK1	TDLA2NU06F02EE0K TDLA2NU06F12FE0K TDLA2NU06F22FE0K	TDLA2NU06F3FBEOK
	No	ISG	2WD	39123 2MKK1	TDLA2NU06E02EE0K TDLA2NU06E12FE0K TDLA2NU06E22FE0K	TDLA2NU06E3FBEOK
	Yes	NON-ISG	2WD	39121 2MKT1	TDLA2NU06F02EE03 TDLA2NU06F12FE03 TDLA2NU06F22FE03	TDLA2NU06F3FBE03
	No	NON-ISG	2WD	39123 2MKT1	TDLA2NU06E02EE03 TDLA2NU06E12FE03 TDLA2NU06E22FE03	TDLA2NU06E3FBE03
	Yes	NON-ISG	4WD	39121 2MKV1	TDLA2NU06F02EK03 TDLA2NU06F12FK03 TDLA2NU06F22FK03	TDLA2NU06F3FBK03
	No	NON-ISG	4WD	39123 2MKV1	TDLA2NU06E02EK03 TDLA2NU06E12FK03 TDLA2NU06E22FK03	TDLA2NU06E3FBK03
23MY	Yes	ISG	2WD	39121 2MKK2	TDLA3NU06F02NE0K TDLA3NU06F1NAE0K	TDLA3NU06F2NBE0K
	No	ISG	2WD	39123 2MKK2	TDLA3NU06E02NE0K TDLA3NU06E1NAE0K	TDLA3NU06E2NBE0K
	Yes	NON-ISG	2WD	39121 2MKT2	TDLA3NU06F02NE03 TDLA3NU06F1NAE03	TDLA3NU06F2NBE03
	No	NON-ISG	2WD	39123 2MKT2	TDLA3NU06E02NE03 TDLA3NU06E1NAE03	TDLA3NU06E2NBE03
	Yes	NON-ISG	4WD	39121 2MKV2	TDLA3NU06F02NK03 TDLA3NU06F1NAK03	TDLA3NU06F2NBK03
	No	NON-ISG	4WD	39123 2MKV2	TDLA3NU06E02NK03 TDLA3NU06E1NAK03	TDLA3NU06E2NBK03
24MY	Yes	ISG	2WD	39121 2MKK3	TDLA4NU06F02YE0K	TDLA4NU06F1YAE0K
	No	ISG	2WD	39123 2MKK3	TDLA4NU06E02YE0K	TDLA4NU06E1YAE0K
	Yes	NON-ISG	2WD	39121 2MKT3	TDLA4NU06F02YE03	TDLA4NU06F1YAE03
	No	NON-ISG	2WD	39123 2MKT3	TDLA4NU06E02YE03	TDLA4NU06E1YAE03
	Yes	NON-ISG	4WD	39121 2MKV3	TDLA4NU06F02YK03	TDLA4NU06F1YAK03
	No	NON-ISG	4WD	39123 2MKV3	TDLA4NU06E02YK03	TDLA4NU06E1YAK03

*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.*



SUBJECT:

## FUEL TANK AND/OR PCSV CHECK VALVE INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)

Refer to [TSB SST081](#) for instructions to upgrade the 'ENGINE' system:

**UPGRADE EVENT:**

706.DL3a Gamma 1.6TGDI ECU Logic Improvement for Preventing Fuel Tank Pressure Increase

**NOTICE**

**Prior to performing the ECU upgrade, be sure to check that the KDS is fully charged.**



**Manual Mode:**

**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 and refer to TSB [SST081](#) for instructions.

Manual Mode ECU Upgrade Passwords

Menu	Password
DL3a -IMMO +ISG (21MY): 39123-2MKK0	1601
DL3a +IMMO/SMK +ISG (21MY): 39121-2MKK0	1602
DL3a -IMMO (21MY): 39123-2MKTO	1603
DL3a +IMMO/SMK (21MY): 39121-2MKTO	1604
DL3a -IMMO 4WD (21MY): 39123-2MKVO	1605
DL3a +IMMO/SMK 4WD (21MY): 39121-2MKVO	1606
DL3a -IMMO +ISG (22MY): 39123-2MKK1	1607
DL3a +IMMO/SMK +ISG (22MY): 39121-2MKK1	1608
DL3a -IMMO (22MY): 39123-2MKT1	1609
DL3a +IMMO/SMK (22MY): 39121-2MKT1	1610
DL3a -IMMO 4WD (22MY): 39123-2MKV1	1611
DL3a +IMMO/SMK 4WD (22MY): 39121-2MKV1	1612
DL3a -IMMO +ISG (23MY): 39123-2MKK2	1613
DL3a +IMMO/SMK +ISG (23MY) : 39121-2MKK2	1614
DL3a -IMMO 4WD (23MY) : 39123-2MKT2	1615
DL3a +IMMO/SMK (23MY) : 39121-2MKT2	1616
DL3a -IMMO (23MY) : 39123-2MKV2	1617
DL3a +IMMO/SMK 4WD (23MY) : 39121-2MKV2	1618
DL3a -IMMO +ISG (24MY) : 39123-2MKK3	1619
DL3a +IMMO/SMK +ISG (24MY) : 39121-2MKK3	1620
DL3a -IMMO (24MY) : 39123-2MKT3	1621
DL3a +IMMO/SMK (24MY) : 39121-2MKT3	1622
DL3a -IMMO 4WD (24MY) : 39123-2MKV3	1623
DL3a +IMMO/SMK 4WD (24MY) : 39121-2MKV3	1624



SUBJECT: **FUEL TANK AND/OR PCSV CHECK VALVE  
INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)**

**ATTENTION: THE PROOF OF CORRECTION CARD AND CAMPAIGN COMPLETION LABEL ARE RESTRICTED ONLY TO DEALERS IN THE FOLLOWING STATES:**

California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. See Parts Information below to order the Proof of Correction Card and Campaign Completion Label from the PDC.

**VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD**

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

**WHAT TO DO WITH THE CARD:**

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not the repair order. **ALL INFORMATION MUST BE PRINTED AND NEAT.**

**NOTE: DO NOT COMPLETE THE CARD UNLESS THE SERVICE CAMPAIGN WORK IS COMPLETED.**

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in. The completed card should be given to the owner of the vehicle upon completion of the Campaign and placement of the Campaign Completion Label outlined below.

**FILLING OUT AND APPLYING THE CAMPAIGN COMPLETION LABEL (CA and S.177 STATES ONLY):**

The dealer must fill in the Dealer Code and Date information fields on the Campaign Completion Label. Once complete, affix the campaign completion label under the hood of the vehicle, as shown below.

**CA and S.177 States Only:** Apply SC288 Campaign Completion Label onto the body in the area next to the shock tower, as shown. **NOTE: Be sure to clean the mounting surface to ensure proper label adhesion.**



SUBJECT:

**FUEL TANK AND/OR PCSV CHECK VALVE  
INSPECTION/REPLACEMENT + ECU SW UPGRADE (SC288)**


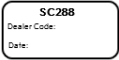
**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
K5 (DL3a)	March 27, 2020 to October 17, 2023

**REQUIRED TOOL:**

Tool Name	Part Number	Figure	Comments
KDS	N/A		Kia Diagnostic System

**REQUIRED PART:**

Part Name	Part Number	Figure	Qty.
Campaign Completion Label	UT160 SC288		1
Vehicle Emissions Recall Proof of Correction Card	UT161 SC288		1

**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	59133 2H000	0	(SC288) DTC Scan ( <u>No</u> P0451) + SW Upgrade	240A0310	0.3 M/H	N/A	0
	TBD		(SC288) Repair Remedy TBD	TBD	TBD	TBD	0

Note: Refer to [Warranty Bulletin 2024-27](#) for claim submission procedures. Manually enter sublet code 'X2' for reimbursement of one roundtrip rideshare expense or up to three (3) days of rental expense, with supporting documentation.

**NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SC288** when accessing the KDealer+ system.

