



GROUP	MODEL
FUE	2022MY Carnival (KA4)
NUMBER	DATE
060	August 2022

## TECHNICAL SERVICE BULLETIN

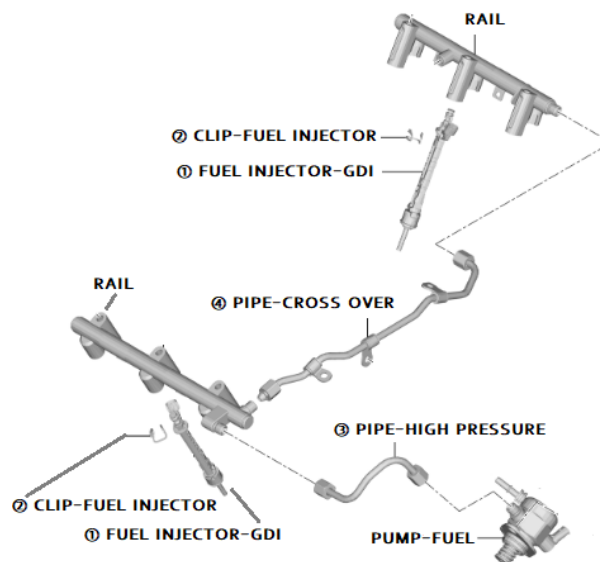
# CYINDER IMBALANCE DTC P219XX00 INSPECTION AND INJECTOR REPLACEMENT

SUBJECT:

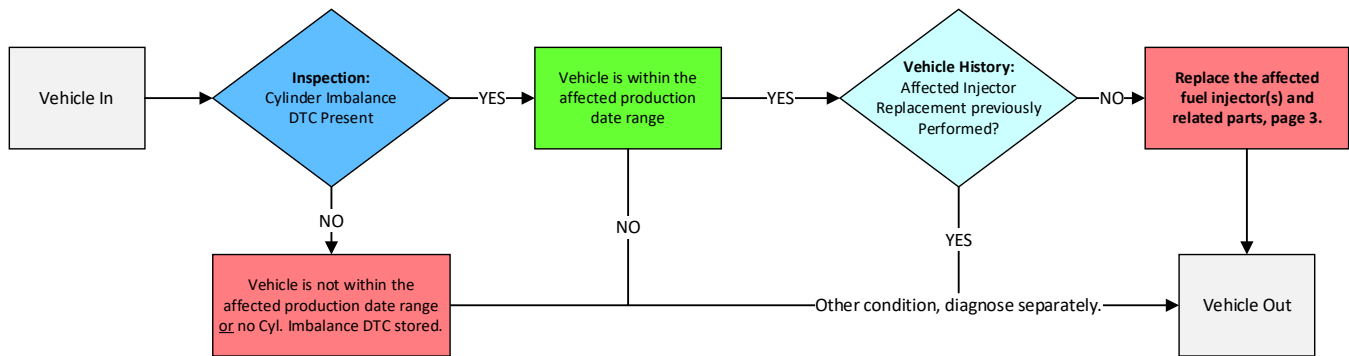
This bulletin provides information regarding cylinder air-fuel ratio imbalance DTC P219XX00 stored in ECU on some 2022MY Carnival (KA4) vehicles with Lambda III 3.5L GDI engine, produced from January 26, 2021 through November 10, 2021, which may exhibit reduced power when accelerating from a stop or while driving and MIL ON with one or more of the following DTC(s):

- P219C00 - Cylinder #1 Air-Fuel Ratio Imbalance
- P219D00 - Cylinder #2 Air-Fuel Ratio Imbalance
- P219E00 - Cylinder #3 Air-Fuel Ratio Imbalance
- P219F00 - Cylinder #4 Air-Fuel Ratio Imbalance
- P21A000 - Cylinder #5 Air-Fuel Ratio Imbalance
- P21A100 - Cylinder #6 Air-Fuel Ratio Imbalance

If one or more of the listed DTCs are present for any cylinder, then one or more high-pressure injectors (1) and clip (2) may require replacement if DTC is stored. In addition, replacement of the high-pressure fuel pipe (3) and cross-over pipe (4) will need to be replaced. Follow the procedure outlined in this publication to inspect the ECU for DTCs and if necessary, replace required parts described in this publication.



## Flowchart:



## Inspection Procedure:

- Using KDS, scan for DTCs to confirm which cylinder(s) are affected.

## DTCs P21XX00:

- P219C00 - Cyl. 1 Air-Fuel Ratio Imbalance
- P219D00 - Cyl. 2 Air-Fuel Ratio Imbalance
- P219E00 - Cyl. 3 Air-Fuel Ratio Imbalance
- P219F00 - Cyl. 4 Air-Fuel Ratio Imbalance
- P21A000 - Cyl. 5 Air-Fuel Ratio Imbalance
- P21A100 - Cyl. 6 Air-Fuel Ratio Imbalance

Are there related DTC(s) stored.

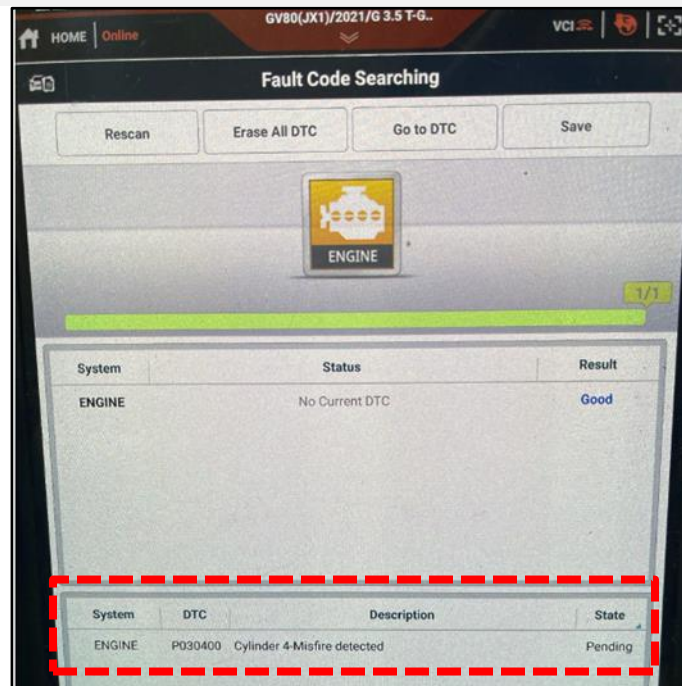
**Yes** - Proceed to step 2.

**No** - Other concern, diagnose by referring to KGIS for more information. This bulletin does not apply.

- Check vehicle history for injector replacement on the affected cylinder(s) with DTC P21XX00. (Cyl. 1-6)

If the affected cylinder injector **HAS NOT been replaced** in the past, proceed to the 'Replacement Procedure' on page 3.

If the affected cylinder injector **HAS BEEN replaced** in the past. Diagnose by referring to KGIS for more information and normal warranty if applicable.

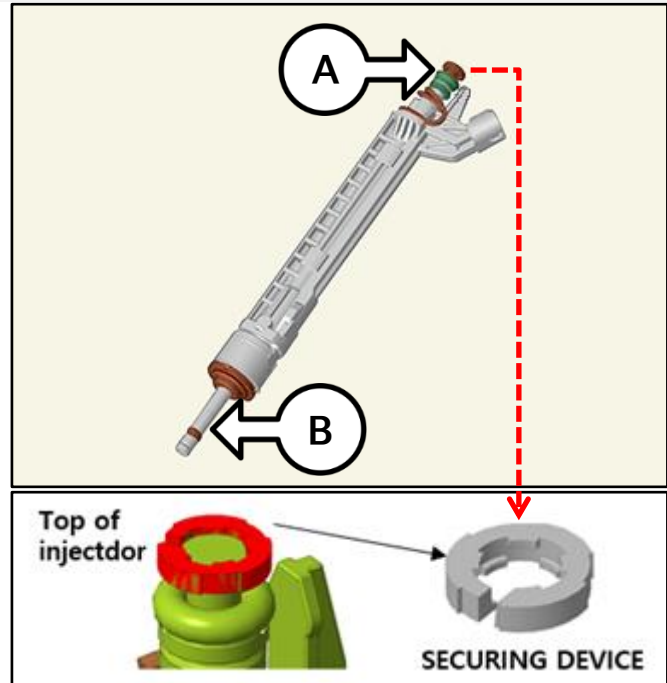


**Replacement Procedure:**

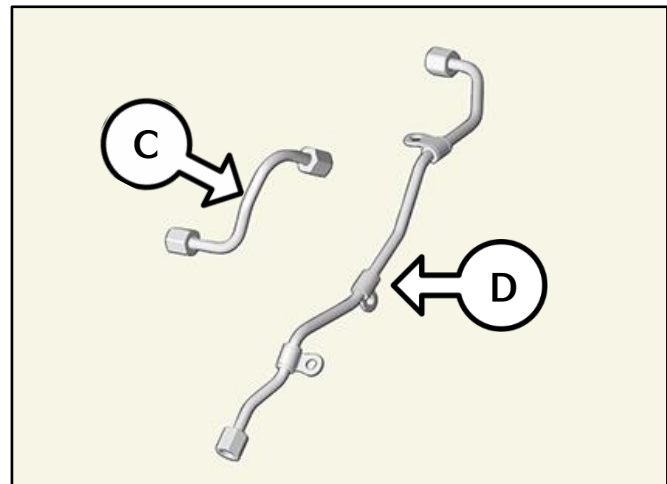
1. Replace the high-pressure injector(s) on the affected cylinder(s) by referring to the 'Engine Control/Fuel System → Fuel Delivery System → Injector → Removal and Installation' in the applicable shop manual on KGIS.

**NOTICE**

**DO NOT re-use the removed parts.** Replace the fuel injector clip (A) with new part. The 'new' injector is supplied with a new O-Ring (B).

**NOTICE**

**DO NOT re-use the removed parts.** Replace the high-pressure pipe (C) and cross-over pipe (D) with new parts.



**SUBJECT: CYLINDER IMBALANCE INSPECTION & INJECTOR REPLACEMENT**

**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Carnival (KA4)	January 26th, 2021 to August 12th, 2021

**REQUIRED PART:**

Part Name	Part Number	Figure	Qty.
High-Pressure Fuel Injector	35310 3NGA0FFF	N/A	1 or (up to Qty. 6)
Fuel Injector Clip	35309 3NTA0FFF		1 or (up to Qty. 6)
High-Pressure Pipe	35305 3NGA0FFF		1
Cross-Over Pipe	35307 3NGA0FFF		1
Intake Gasket	29215 3N350		1
Port Seals	28311 3N350		6

Note: Replace the High-Pressure Fuel Injector and Clip, only for the affected cylinder(s) with DTC(s) stored.

**WARRANTY INFORMATION:**

**N Code: V72 C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	35310 3NGA0	0	DTC Check w/KDS & Fuel Injector (GDI) Replace 1-3 injectors on one (1) bank (L or R)	35310F01	1.4 M/H	35310 3NGA0FFF	1, 2 or 3
						35309 3NTA0FFF	
						35305 3NGA0FFF	1
						35307 3NGA0FFF	1
						29215 3N350	1
						28311 3N350	3
		0	DTC Check w/KDS & Fuel Injector (GDI) Replace 2-6 injectors on both (2) banks (L&R)	35310F02	1.8 M/H	35310 3NGA0FFF	2, 3 4, 5 or 6
						35309 3NTA0FFF	
						35305 3NGA0FFF	1
						35307 3NGA0FFF	1
						29215 3N350	1
						28311 3N350	6

