



GROUP	MODEL
FUE	2021-2022MY Sorento (MQ4a) <u>and</u> 2023MY Sportage (NQ5, NQ5a) w/Theta III 2.5L GDI
NUMBER	DATE
066	September 2024

## TECHNICAL SERVICE BULLETIN

### SUBJECT: GDI FUEL INJECTOR REPLACEMENT FOR MISFIRE DTC(S)

This bulletin provides information regarding cylinder misfire DTCs stored on some 2021-2023MY Kia models listed in the table below equipped with a naturally aspirated Theta III 2.5L GDI engine and dual fuel injection, where a low-pressure (MPI) injector and a high-pressure (GDI) injector independently supply fuel to each cylinder. A GDI fuel injector may become damaged due to exposure to fuel containing ethanol, potentially resulting in the malfunction indicator lamp (MIL) illuminating, along with no-start, misfire, and/or reduced power, while driving at highway speeds remains possible. If any of the misfire DTCs listed below are stored, follow the flowchart on page 2 and, as applicable, the repair procedure in this publication to replace all four GDI injectors and related parts.

#### DTC Description:

- P030000 - Random/Multiple Cylinder Misfire Detected
- P030100 - Cylinder 1 Misfire Detected
- P030200 - Cylinder 2 Misfire Detected
- P030300 - Cylinder 3 Misfire Detected
- P030400 - Cylinder 4 Misfire Detected

Model Year	Model	Engine	Production Date
21-22MY	Sorento	Naturally Aspirated	07/01/2021 - 06/10/2022
23MY	Sportage (NQ5)	Theta III	12/15/2021 - 12/20/2022
	Sportage (NQ5a)	2.5L GDI	01/12/2022 - 06/10/2022

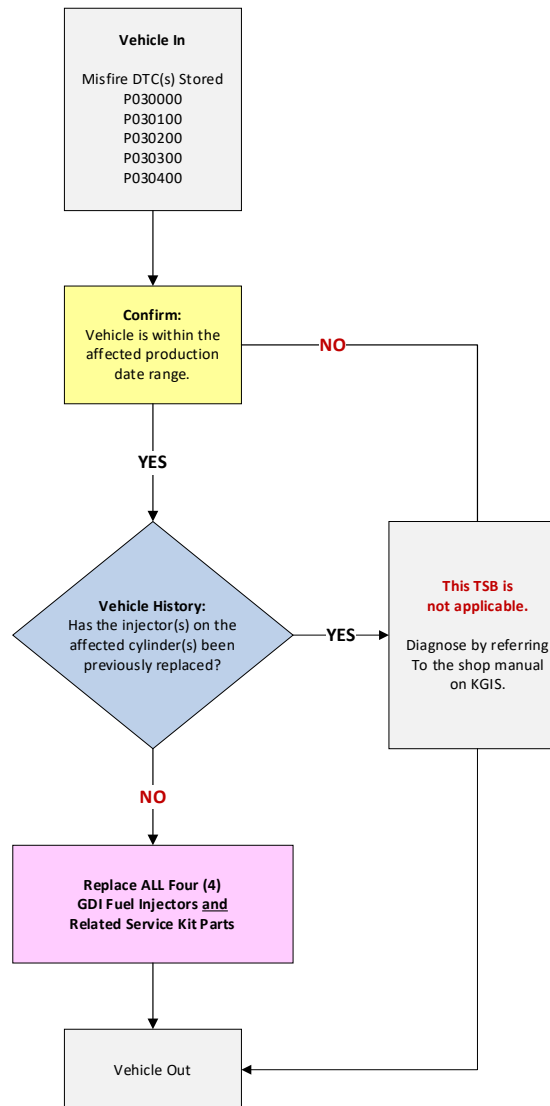
#### NOTICE

**A Technical Service Bulletin is a field fix repair program without customer notification that may be performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.**

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.

**Flowchart:**

Using KDS confirm that the ECU has the related misfire DTC(s) stored and, verify that the vehicle is within the specified production date range listed in the table on page 1. Refer to the flowchart instruction below:



**Example 1:** If the vehicle has DTC P0301 (Cyl. 1 Misfire) stored and the vehicle history shows that Injector on Cyl. 1 has been previously replaced, then refer to KGIS for diagnosis instructions. This TSB is not applicable.

**Example 2:** If the vehicle has DTC P0301 (Cyl. 1 Misfire) stored and the vehicle history shows that Injector on Cyl. 1 has not been previously replaced, then refer to page 3 and replace ALL four (4) GDI fuel injectors and the related parts supplied in the service kit.

**Note:** A [Vehicle Diagnosis Number \(VDN\)](#) must be created for DTC's P030000, P030100, P030200, P030300, and/or P030400 prior to ordering parts and performing necessary procedure(s), as outlined in this TSB. If a VDN is not created, Parts Ordering and Warranty claim submission issues WILL occur. Any claims for replacement parts are subject to Warranty review and chargeback.

SUBJECT:

## GDI FUEL INJECTOR REPLACEMENT FOR MISFIRE DTC(S)

## Repair Procedure:

- Confirmed DTC(s) stored, and vehicle is within the production date range on page 1.

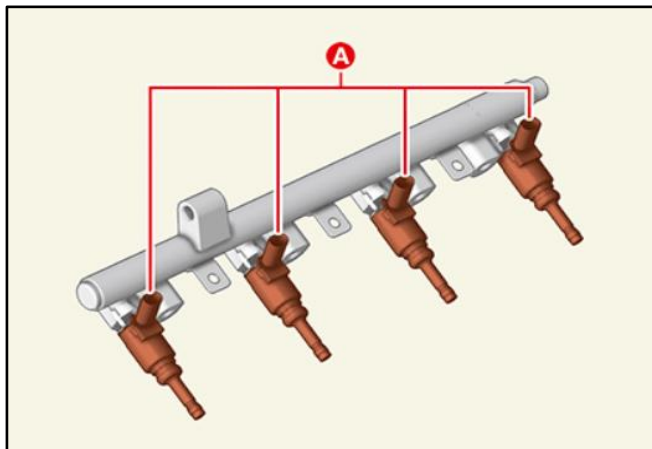
## DTCs:

- P030000 - Random/Multiple Cylinder Misfire Detected
- P030100 - Cylinder 1 Misfire Detected
- P030200 - Cylinder 2 Misfire Detected
- P030300 - Cylinder 3 Misfire Detected
- P030400 - Cylinder 4 Misfire Detected

System	DTC	Description	State
ENGINE	P030100	Cylinder 1-Misfire detected	Active
ENGINE	P030300	Cylinder 3-Misfire detected	Active
ENGINE	P030200	Cylinder 2-Misfire detected	Active
ENGINE	P030000	Random/Multiple Cylinder Misfire Detected	Active

- Replace the fuel injectors, delivery pipe and related parts by referring to the "Engine Control / Fuel System → Fuel Delivery System → Delivery Pipe → Removal and Installation" instructions in the applicable Shop Manual on KGIS.

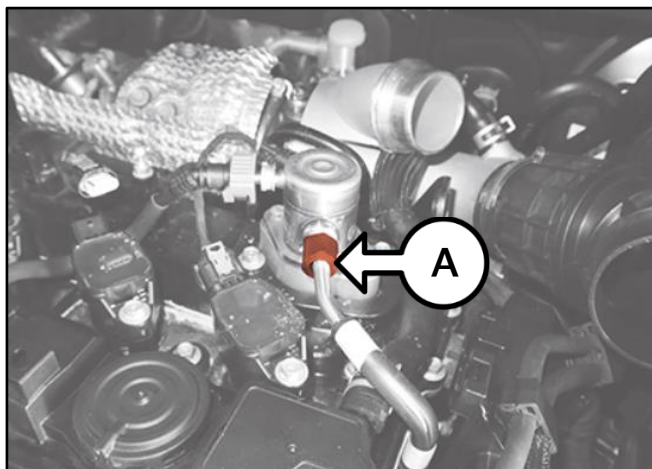
**Note:** SST 09353 L1100 is required.



- Note:** Refer to GDI Injector installation instruction on KGIS and install the new clips. Replace the gaskets for the throttle body and intake manifold as they are not reusable.



Tightening torque for pipe flange nut (A):  
23.9 - 26 lb.ft (32.4 - 35.3 N.m)




- Reinstall all removed parts in reverse order of removal.
- Using KDS, clear DTC(s).
- Confirm normal vehicle operation.

SUBJECT:

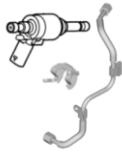

**GDI FUEL INJECTOR REPLACEMENT FOR MISFIRE DTC(S)****AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Sorento (MQ4a)	July 1, 2021 to June 10, 2022
Sportage (NQ5)	December 15, 2021 to December 20, 2022
Sportage (NQ5a)	January 12, 2022 to June 10, 2022

**REQUIRED TOOL:**

Tool Name	Part Number	Figure	Comments
Injector Combustion Seal Guide & Sizing Tool	09353 L1100		Located in Toolbox 1 Drawer 7

**REQUIRED PART:**

Part Name	Part Number	Figure	Qty.	Comments
GDI Fuel Injector <u>and</u> Line Service Kit	35399 2S033FFF		1	<b>Note: Dealers <u>MUST</u> Order the kit PN 35399 2S033FFF</b>
• GDI Fuel Injectors	35310 2S000		4	
• Fuel Injector Clips	35309 04AA0		4	
• High Pressure Pipe	35305 2S000		1	
Intake Port Gasket	28411 2S010FFF		3	Not Reusable
Intake Port Gasket	28411 2S020FFF		1	
Throttle Body Gasket	28411 2S000FFF		1	
EGR Pipe Gasket	28493 2S000FFF	N/A	1	NQ5, NQ5a <u>only</u>
Oil Filter Housing Gasket	26332 2S000FFF		2	
Coolant	UM020 CH263		3 gallons	
Synthetic Oil	NPNENG5W30		1qt	

**Note:** The replacement FFF part numbers will require a VIN entry for parts ordering. DO NOT order these parts for stocking purposes, related to this TSB. Supply is very limited. Until supply stabilizes, please confirm part availability before scheduling customers. Please be sure to expedite warranty claim filing.

SUBJECT:

**GDI FUEL INJECTOR REPLACEMENT FOR MISFIRE DTC(S)****WARRANTY INFORMATION:****N Code: DB1 C Code: ZZ3**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
MQ4a	W	35310 2S000	0	DTC Inspection + GDI Fuel Injector Replacement	37510F16	1.7 M/H	35399 2S033FFF	1
							28411 2S010FFF	3
							28411 2S020FFF	1
							28411 2S000FFF	1
							28493 2S000FFF	1
							NPENEG5W30	1
NQ5 NQ5a					37510F18	1.6 M/H	35399 2S033FFF	1
							28411 2S010FFF	3
							28411 2S020FFF	1
							28411 2S000FFF	1
							28493 2S000FFF	1
							26332 2S000FFF	2
	UM020 CH263	3						
NPENEG5W30	1							

Note: ALL six (6) **Replacement P/Ns** listed in the table above are required for Sportage (NQ5, NQ5a) model applications.

Note: A [Vehicle Diagnosis Number \(VDN\)](#) must be created for DTC's P030000, P030100, P030200, P030300, and/or P030400 prior to ordering parts and performing necessary procedure(s), as outlined in this TSB. If a VDN is not created, Parts Ordering and Warranty claim submission issues WILL occur. Any claims for replacement parts are subject to Warranty review and chargeback.

