



Technical Service Bulletin

GROUP FUEL SYSTEM	NUMBER 20-FL-010H
DATE OCTOBER 2020	MODEL(S) Tucson (TL) 2.0L

SUBJECT: TUCSON 2.0L DTC P0420 - ECM UPDATE AND CATALYST REPLACEMENT

Description:

This bulletin provides information related to the repair of DTC P0420 “Catalytic Converter System Bank 1 - Efficiency Below Threshold” found stored in the Engine Control Module (ECM). The repair involves performing an ECM Update and replacement of the exhaust manifold catalyst.

Applicable Vehicle:


- 2019 Tucson (TL) with 2.0L GDI engine.

ECU Update Event Information:

System Selection: Engine (ECM)	
Event #	Description
588*	TL PE 2.0GDI - P0420 DTC IMPROVEMENT

*or any updated later event that is listed.

Parts Information:

Part Name	Part Number	Diagram
MANIFOLD CATALYTIC ASSY	28510-2EMN0 (2WD) 28510-2EPE0 (4WD)	

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part	Nature Code	Causal Code
Tucson (TL)	39131F08	ECM UPGRADE & EXHAUST MANIFOLD CATALYST REPLACE	1.1 M/H	39131-2ET** 39133-2ET**	I3T	ZZ3

**Refer to applicable parts catalog for full ECM causal part numbers.

Note: Normal warranty applies.

Service Procedure:

1. Scan for DTC in Engine System and confirm that DTC P0420 is found stored.
2. Replace the exhaust manifold catalyst per the Shop Manual instructions.

SHOP TUCSON(TL) [2016-2021] 2019 G 2.0 GDI VIN # Search Reset

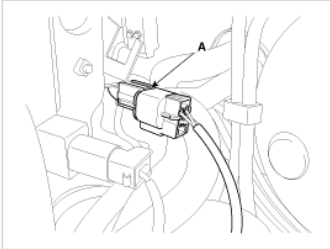
G 2.0 GDI

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- Automatic Transaxle System (Automatic Trai
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TUCSON(TL) > 2019 > G 2.0 GDI > Engine Mechanical System

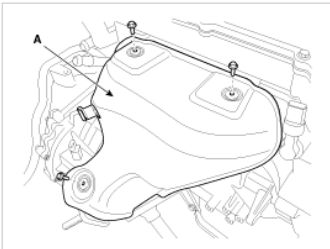
Removal and Installation

1. Remove the engine cover.
(Refer to Engine and Transaxle Assembly - "Engine Cover")
2. Disconnect the battery negative terminal.
3. Disconnect the front oxygen sensor connector (A) and then remove it from the bracket.



4. Remove the engine room under cover.
(Refer to Engine and Transaxle Assembly - "Engine Room Under Cover")
5. Remove the front muffler.
(Refer to Intake and Exhaust System - "Muffler")
6. Remove the exhaust manifold heat protector (A).

Tightening torque :
9.8 ~ 11.8 N.m (1.0 ~ 1.2 kgf.m, 7.2 ~ 8.7 lb-ft)



3. Perform the GDS software event update:
 - Refer to TSB **15-GI-001** for the detailed tablet-based Mobile GDS ECU update procedures.
 - Refer to TSB **15-GI-002** for the detailed PC-based GDS ECU update procedures.
4. Check for Diagnostic Trouble Codes in the **ALL** menus and erase any DTC.
5. Erase the DTC in the BlueLink system according to TSB 12-BE-005-2.
6. Confirm normal vehicle operation.

NOTICE

You must initially perform the GDS ECU Update in Auto Mode.

- If the ECU Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.



WARNING

GDS Vehicle Battery Voltage Warning:

If voltage is below 12 volts as per the below GDS warning, then select **Back** and operate the vehicle in Ready mode for at least 20 minutes to ensure an adequate battery state of charge for reliable update results. Turn ignition back on, and then retry the ECU update again.



ROM ID Table:

VEHICLE	ENGINE	TRANS	IMMO	EMISSIONS	ECU P/No.	ROM ID	
						OLD	NEW
Tucson (TL PE)	2.0GDI	6AT	YES	ULEV	39131-2ETF0	GGTL-INUAQS00C00 GTL-0NU0AQ000C00	GTL-0NU0AQ100C00
			NO	ULEV	39133-2ETF0	GGTL-INUAPS00C00	GTL-0NU0AP100C00
			YES	ULEV	39131-2ETF1	GGTL-INUAQS00D00	GTL-0NU0AQ100F00
			NO	ULEV	39133-2ETF1	GGTL-INUAPS00D00	GTL-0NU0AP100F00
			YES	SULEV	39131-2ETF2	GGTL-INSAQS00C00	GTL-0NS0AQ100C00
			NO	SULEV	39133-2ETF2	GGTL-INSAPS00C00	GTL-0NS0AP100C00

Manual Mode Password:

MENU	PASSWORD
TL PE 2.0GDI -IMMO 39133-2ETF0	3320
TL PE 2.0GDI -IMMO 39133-2ETF1	3321
TL PE 2.0GDI -IMMO 39133-2ETF2	3322
TL PE 2.0GDI +IMMO 39131-2ETF0	3326
TL PE 2.0GDI +IMMO 39131-2ETF1	3327
TL PE 2.0GDI +IMMO 39131-2ETF2	3328