

**HYUNDAI**NEW THINKING.  
NEW POSSIBILITIES.**Technical Service Bulletin**

GROUP

**FUEL SYSTEM**

NUMBER

**16-FL-003**

DATE

**SEPTEMBER 2016**

MODEL(S)

**TUCSON (LM)****SUBJECT:** DTC P0171/P0420 ECM UPDATE AND P0420 CATALYST REPLACEMENTHYUNDAI  
Global Diagnostic System**ECU Update****Description:**

This bulletin provides information related to the Engine Control Module (ECM) software update to prevent an increase in the catalyst temperature which may result in illumination of the malfunction indicator light with the following DTC(s):

- P0171 - System too Lean - Bank 1.
- P0420 - Catalytic Converter System, Bank 1 - Efficiency Below Threshold.

In rare cases, there can be a reduction in engine power if the catalyst is restricted.

**\* IMPORTANT**

- If DTC P0420 is present, replace the exhaust manifold catalyst in addition to performing the ECM update. Print GDS DTC screen with VIN information and attach to the RO.
- **DO NOT** replace catalyst for DTC P0171 only. The claim may be subject to chargeback.

**Applicable Vehicle:** Certain 2014-2015MY Tucson (LM) with 2.4L GDI engines

**GDS Information:**System Selection: **ENGINE (ECM)**

Event #	Description
<b>396*</b>	<b>LM 2.4GDI DTC P0171,P0420 IMPROVEMENT</b>

(\*or use a later available event as listed in the GDS ECU Update screen if one is available.)

**NOTE:**

- Refer to TSB **15-GI-001** for the tablet-based Mobile GDS ECU update procedures.
- Refer to TSB **15-GI-002** for the PC-based GDS ECU update procedures.

**Warranty Information:**

Op Code	Operation	Causal P/N	Op Time
28510F01	DTC INSPECTION AND MANIFOLD CATALYTIC / GASKET REPLACEMENT, ECU UPGRADE (For DTC P0420 case)	28510-2G540 or 28510-2G580 as installed	1.6 M/H
28510F02	DTC INSPECTION AND ECU UPGRADE (For DTC P0171 only case)	39106-XXXXX*	0.4 M/H

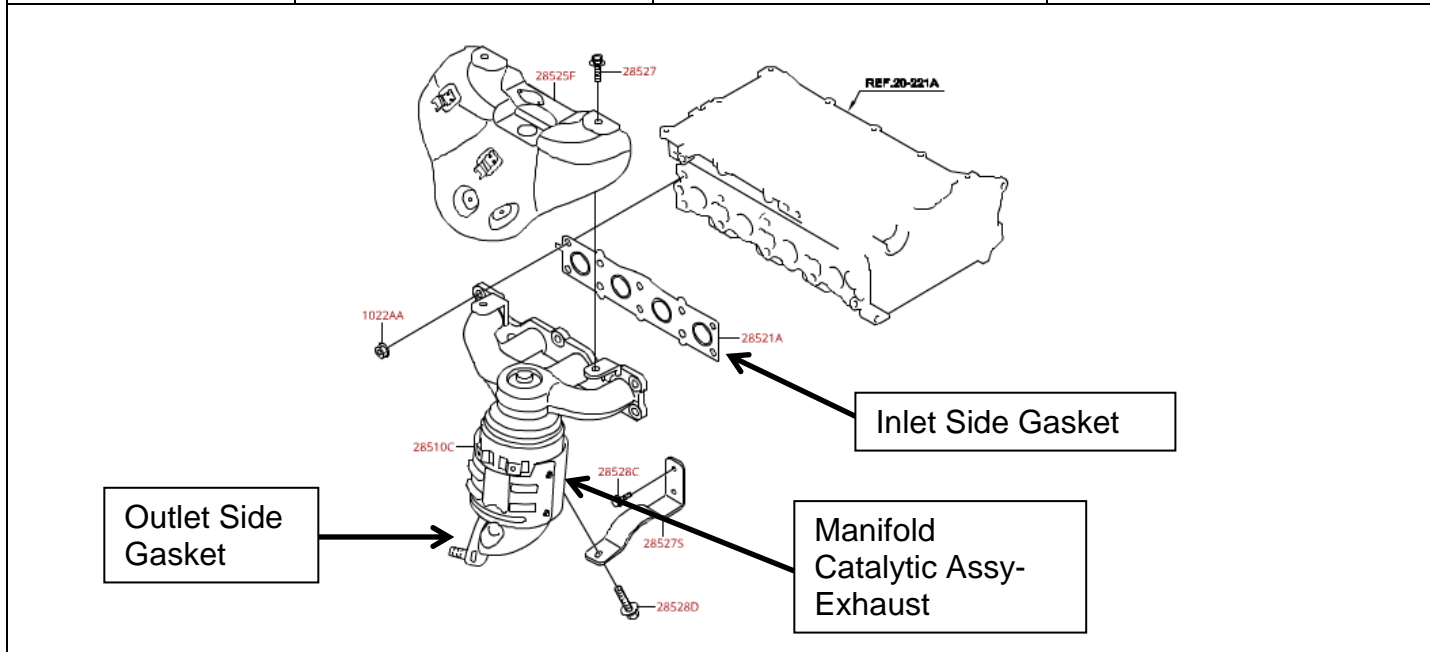
**NOTE:** \*Use the applicable ECM P/N listed in the ROM ID Information Table on page-3.

**Parts Information:**

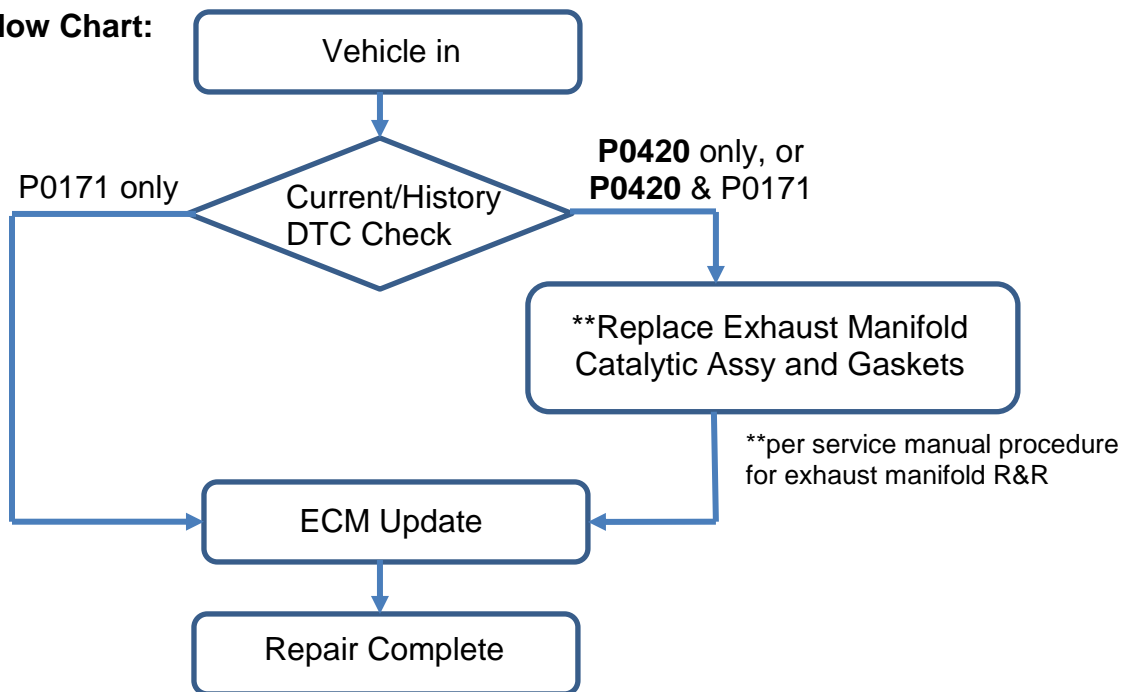
**NOTE:** Order the below parts only if GDS inspection found DTC P0420 stored in the ECM.

\*Check underhood emissions label to determine whether CA SULEV or ULEV emissions.

Vehicle Application	Catalytic Converter Part Number	Inlet Side Gasket Part Number	Outlet Side Gasket Part Number
<b>SULEV *</b> Emissions	28510-2G540	28521-25020	28751-3S100
<b>ULEV *</b> Emissions	28510-2G580	28521-25020	28751-3S100



**Service Procedure Flow Chart:**



**NOTE:** If significant honeycomb material has broken apart from the exhaust manifold catalyst, blow out any residual catalyst material from the exhaust tube and underfloor catalyst.

**NOTICE**

**You must initially perform 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.

**ROM ID Information Table:**

Model	MY/ Emissions	IMMO	ECM P/N	ECM ROM ID	
				Previous	New
TUCSON (LM) 2.4GDI	14MY (ULEV)	IMMO	39106-2GBB0 39106-2GBB5	LEC4RH2A LEC4RH2B	LEC4RH2C
		NON IMMO	39106-2GBD0 39106-2GBD5	LEC4MH2A LEC4MH2B	LEC4MH2C
	14MY (SULEV)	IMMO	39106-2GBC0 39106-2GBC5	LES4RH2A LES4RH2B	LES4RH2C
		NON IMMO	39106-2GBE5	LES4MH2A LES4MH2B	LES4MH2C
	15MY (ULEV)	IMMO	39106-2GBB1 39106-2GBB2 39106-2GBB6 39106-2GBB7	LFC4RH4A	LFC4RH4B
		NON IMMO	39106-2GBD1 39106-2GBD2 39106-2GBD6 39106-2GBD7	LFC4MH4A	LFC4MH4B
	15MY (SULEV)	IMMO	39106-2GBC6 39106-2GBC7	LFS4RH4A	LFS4RH4B
		NON IMMO	39106-2GBE6 39106-2GBE7	LFS4MH4A	LFS4MH4B

**NOTE:** IMMO = Start Stop Button, NON IMMO = Key Start

**Manual Mode Password Information Table:**

MENU	PASSWORD
LM 2.4GDI NON IMMO 39106-2GBD0/5	0625
LM 2.4GDI NON IMMO 39106-2GBE0/5	0626
LM 2.4GDI NON IMMO 39106-2GBD1/2/6/7	0627
LM 2.4GDI NON IMMO 39106-2GBE6/7	0628
LM 2.4GDI IMMO 39106-2GBB0/5	0620
LM 2.4GDI IMMO 39106-2GBC0/5	0621
LM 2.4GDI IMMO 39106-2GBB1/2/6/7	0622
LM 2.4GDI IMMO 39106-2GBC6/7	0623

**NOTE:** IMMO = Start Stop Button, NON IMMO = Key Start