	GROUP	NUMBER
HYUNDAI **Technical Service Bulletin**	CAMPAIGN	22-01-018H
	DATE	MODEL(S)
	FEBRUARY, 2022	SONATA (DN8a) SANTA FE (TMa)

SUBJECT:	DTC P2074XX ECM UPDATE (SERVICE CAMPAIGN T7M)

NOTE: **This bulletin supersedes 21-01-075H to temporarily remove Tucson (NX4/NX4a) vehicles due to unreliable ECU Update events #749-750.**

★ IMPORTANT

*****Dealer Stock and Retail Vehicles*****

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access the "Vehicle Information" screen via WEBDCS to identify open Campaigns/Recalls.

Description:
Certain 2020-22MY Sonata (DN8a) and 2021-22MY Santa Fe (TMa) vehicles equipped with 2.5L engine may exhibit a MIL with DTC(s):
- P2074: Mass Airflow Sensor Plausibility
- P2074F0: Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Lower Load
- P2074F1: Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Medium or High Load

Secondary DTC(s) below may also be stored:
- C136081: ESP Irreversible Error
- C161308: CAN Signal Error EMS
- C161386: CAN Signal Error EMS
- C169381: Blind-Spot Collision Warning – CAN signal failure - ESC
- C174181: ESC Not Available VSM (Check ESC)
- C183586: CAN Message Failure ESC/IEB

Vehicles diagnosed with DTC(s) may also experience reduced engine performance and limited power reduction mode. The ECM software revises the logic to accurately detect the amount of air the engine is receiving.

Applicable Vehicle: Certain vehicles equipped with 2.5L GDI engines:
- 2020-22MY Sonata (DN8a) (HMMA VINs starting with 5NP)
- 2021-22MY Santa Fe (TMa) (HMMA VINs starting with 5NM)

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

#Event	Description
766*	**DN8a – ECU LOGIC IMPROVEMENT (P2074)**
767*	**TMa – ECU LOGIC IMPROVEMENT (P2074)**

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

Circulate To: Service Manager, Warranty Manager, Service Advisors, Technicians, Fleet Repair

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Sonata (DN8a)	10D208R2	ECM UPGRADE	0.3 M/H	39101-2SDA0	S21	ZZ3
Santa Fe (TMa)	10D208R3			39110-2S059		

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

NOTE 2: If a part that is not covered by this campaign is found in need of replacement while performing this Service Campaign and the affected part is still under warranty, submit a separate warranty claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

Service Procedure:

1. Perform GDS Mobile software update per TSB **15-GI-001.**
2. After successful completion of **ECM software update,** check for Diagnostic Trouble Codes in **ALL** menus and erase any DTC.
3. Confirm normal vehicle operation.

NOTICE

You must initially perform GDS-M ECM Update in Auto Mode.
If the ECM Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

⚠ WARNING

GDS-M Vehicle Battery Low Voltage Warning:
When the vehicle battery is lower than 12 volts, the GDS-M will trigger a Low Battery Voltage Warning. If this Warning occurs,
A. Connect the battery to a fully charged battery jump pack or GR8 charger using "Power Supply Mode" to continue the software update.
OR
B. Select "BACK" to exit the SW update. Then, start the engine and idle with the headlights on for 20 minutes. Return to the SW update after charging the battery.

Notice	↵
⚠	Warning! lower Battery Voltage. BATTERY VOLTAGE: 11.7

ROM ID Information Table:

MODEL	Model Year	ECU P/No.	ROM ID	
			OLD	NEW
Sonata (DN8a)	2020	39101-2SDA0	DNBVN5GMCCXXXDAA DNBVN5GMCCXXXDBB DNBVN5GMCCXXXDCA DNBVN5GMCCXXXG2F	DNBVN5GMCCXXXG2G
		39102-2SDB0	DNBVN5GMC3XXXDAA DNBVN5GMC3XXXDBB DNBVN5GMC3XXXDCA DNBVN5GMC3XXXG2F	DNBVN5GMC3XXXG2G
		39103-2SDE0	DNCVN5GMCCXXXF0A DNCVN5GMCCXXXG2F	DNCVN5GMCCXXXG2G
		39104-2SDF0	DNCVN5GMC3XXXF0A DNCVN5GMC3XXXG2F	DNCVN5GMC3XXXG2G
	2021	39100-2SDG0	DNCVN5GMCCXXXG2A	DNCVN5GMCCXXXG2C
		39100-2SDH0	DNCVN5GMCCXXXG2B	DNCVN5GMC3XXXG2C
	2022	39100-2SDJ0	DNDVN5GMCCXXXJ1A	DNDVN5GMCCXXXJ1B
		39100-2SDK0	DNDVN5GMC3XXXJ1A	DNDVN5GMC3XXXJ1B
Santa Fe (TMa)	2021	39110-2S059	TACVN5GMH3XXXH0A TACVN5GMH3XXXG2C	TACVN5GMH3XXXH0B
		39110-2S067	TACVN5GMI3XXXH0A TACVN5GMI3XXXG2C	TACVN5GMH3XXXH0B
		39110-2S060	TACVN5GSH3XXXH0A TACVN5GSH3XXXG2C	TACVN5GSH3XXXH0B
		39110-2S068	TACVN5GSI3XXXH0A TACVN5GSI3XXXG2C	TACVN5GSH3XXXH0B
	2022	39110-2S092	TADVN5GMH3XXXJ1A	TADVN5GMH3XXXJ1B
		39110-2S093	TADVN5GMH3XXXJ1A	TADVN5GMH3XXXJ1B
		39110-2S094	TADVN5GSH3XXXJ1A	TADVN5GSH3XXXJ1B
		39110-2S095	TADVN5GSH3XXXJ1A	TADVN5GSH3XXXJ1B

Manual Mode Password Information Table:

MODEL	EVENT #	MENU	PASSWORD
Sonata (DN8a)	#766	DN8a 2.5GDI 39101-2SDA0	6601
		DN8a 2.5GDI 39102-2SDB0	6602
		DN8a 2.5GDI 39103-2SDE0	6603
		DN8a 2.5GDI 39104-2SDF0	6604
		DN8a 2.5GDI 39100-2SDG0	6605
		DN8a 2.5GDI 39100-2SDH0	6606
		DN8a 2.5GDI 39100-2SDJ0	6607
		DN8a 2.5GDI 39100-2SDK0	6608
Santa Fe (TMa)	#767	TMa 2.5GDI 39110-2S059/2S067	0596
		TMa 2.5GDI 39110-2S060/2S068	0608
		TMa 2.5GDI 39110-2S092/2S093	0923
		TMa 2.5GDI 39110-2S094/2S095	0945