



# HYUNDAI

## Technical Service Bulletin

GROUP	NUMBER
<b>CAMPAIGN</b>	<b>21-01-051H</b>
DATE	MODEL(S)
<b>JUNE, 2021</b>	<b>SONATA (DN8)</b>

<b>SUBJECT:</b>	OBD AIR FUEL RATIO IMBALANCE MONITOR AND CYLINDER IMBALANCE DIAGNOSIS (SERVICE CAMPAIGN T6P)
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### ★ 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 Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

### Description:

This bulletin provides information related to an Electronic Control Module (ECM) software update which revises the OBD Air Fuel Ratio Imbalance (AFRI) monitor function frequency and cylinder imbalance diagnosis logic.

**Applicable Vehicle:** Certain 2020-21MY Sonata (DN8) equipped with 2.5L GDI engine.

### Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Sonata (DN8)	10DA05R0	ECM UPGRADE	0.3 M/H	39101-2SDA0	I73	ZZ3

**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.**

### GDS Information:

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

Event #	Description
<b>678*</b>	<b>DN8a - CYLINDER IMBALANCING AND ITM DIAGNOSIS IMPROVEMENT</b>

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

**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.



**SUBJECT: OBD AIR FUEL RATIO IMBALANCE MONITOR AND CYLINDER IMBALANCE DIAGNOSIS (SERVICE CAMPAIGN T6P)**

**ECM ROM ID Information Table:**

MODEL	MY	ISG	PCM P/No.	ROM ID	
				OLD	NEW
DN8 2.5L GDI	20MY	No	39101-2SDA0	DNBVN5GMCCXXXDBB DNBVN5GMCCXXXDCA	DNBVN5GMCCXXXG2F
		Yes	39102-2SDB0	DNBVN5GMC3XXXDBB DNBVN5GMC3XXXDCA	DNBVN5GMC3XXXG2F
	21MY	No	39103-2SDE0	DNCVN5GMCCXXXF0A	DNCVN5GMCCXXXG2F
		Yes	39104-2SDF0	DNCVN5GMC3XXXF0A	DNCVN5GMC3XXXG2F

**Manual Mode Password Information Tables:**

EVENT #	MENU	PASSWORD
#678	DN8a 2.5 GDI +IMMO -ISG 39101-2SDA0	9101
	DN8a 2.5 GDI +IMMO +ISG 39102-2SDB0	9102
	DN8a 2.5 GDI +IMMO -ISG 39103-2SDE0	9103
	DN8a 2.5 GDI +IMMO +ISG 39104-2SDF0	9104