



**HYUNDAI**  
**Technical Service Bulletin**

GROUP <b>FUEL SYSTEM</b>	NUMBER <b>24-FL-002H</b>
DATE <b>FEBRUARY 2024</b>	MODEL(S) <b>SONATA (DN8/DN8A)</b>

**SUBJECT:** ECU/TCU SOFTWARE UPDATE FOR ISG LOGIC IMPROVEMENT

**Description:** This bulletin provides the procedure to update the Engine Control Module (ECM) and/or the Transmission Control Module (TCM) for 2020-2023MY Sonata (DN8/DN8a) vehicles to improve operation of the Idle Stop and Go (ISG) system. Under certain circumstances the vehicle may not restart after the ISG system has engaged and requires a manual restart due to the lack of intake manifold pressure recovery.

**Applicable Vehicles:**

- 2022-2023MY Sonata (DN8) produced 6/3/2021 – 10/23/2023 (VIN starting with 'KMH')
- 2020-2022MY Sonata (DN8a) produced 10/23/2019 – 2/14/2022 (VIN starting with '5NP')

**GDS Information:**

System	Event #	Description
Engine	1074	DN8 THETA3 2.5GDI ECU S/W Improvement for ISG Logic Improvement
A/T	1075	DN8 THETA3 2.5GDI TCU S/W Improvement for ISG Logic Improvement
Engine	1076	DN8a THETA3 2.5GDI ECU S/W Improvement for ISG Logic Improvement
A/T	1077	DN8a THETA3 2.5GDI TCU S/W Improvement for ISG Logic Improvement

(\*or use a later available event as listed in the GDS Engine or A/T System Update screen if one is available.)

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Casual Part	Nature Code	Cause Code
20-22MY Sonata (DN8/DN8a)	39110FH4	ECU + TCU Software Update	0.6 M/H	Refer to WebLTS for applicable part to labor op combination	W17	ZZ3
23MY Sonata (DN8)	39110FH5	ECU Software Update	0.4 M/H			

**NOTE 1:** Normal warranty applies.

**NOTE 2:** Submit claim on Claim Entry Screen as “Warranty” type.

**NOTE 3:** This TSB includes Repair validation photos. Op times include VIN, Mileage, and photo capture of the “ECU update complete” screen as outlined in the Digital Documentation Policy.

**NOTE 4:** If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, submit a separate 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:****STUI**

This TSB includes Repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

**NOTICE**

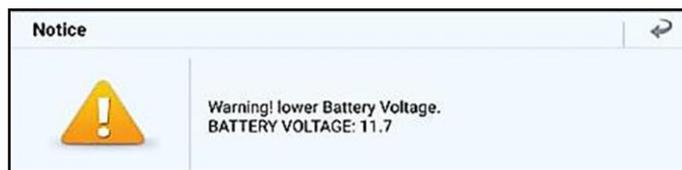
**You must initially perform the GDS ECU update in Auto Mode.**

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

**NOTICE**

**GDS Vehicle Battery Low Voltage Warning:**

If voltage is below 12 volts per the GDS warning, then select **Back** and attach a battery maintainer/charger or run the vehicle for at least 20 minutes to ensure an adequate battery charge for reliable update results. Turn ignition back **ON**, and then retry the ECU update again.



1. Perform the ECU and TCU updates in Auto Mode.

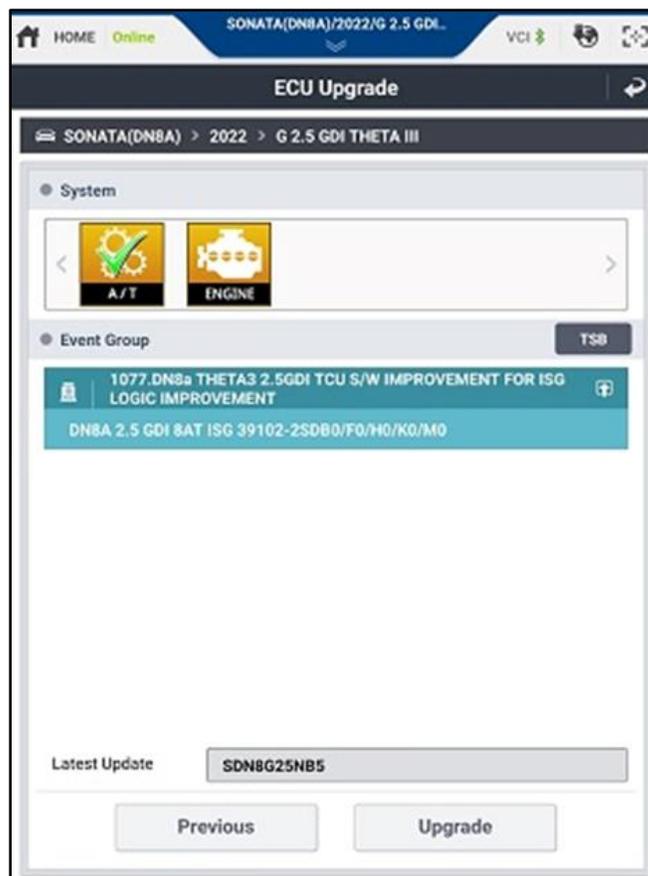
Use the **ID Check** to verify the ROM ID before updating the software.

**i** **Information**

Refer to TSB 15-GI-001 for additional information for the ECU update Procedure For Tablet-Based GDS Mobile.

**i** **Information**

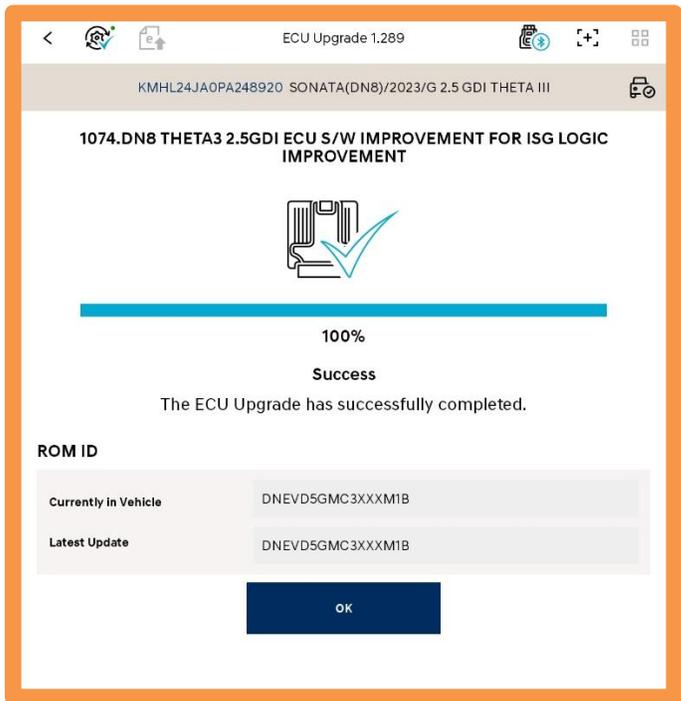
2023MY Sonata (DN8) vehicles will only require ECU update 1074.



2.

STUI

Take a screenshot of the ECU update complete screen using your tablet and upload to STUI.



3. After the ECU update process shows 100% complete, cycle the ignition key to **OFF** for at least 10 seconds to reset the control unit.
4. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.
5. Start the vehicle in **Ready** mode to confirm proper operation of the vehicle.

**ROM ID Information Table: Event # 1074**

Model	MY	System	ECU Part Number	ROM ID	
				Old	New
DN8	2022	ECU	39110-2S040	DNDVD5GMC3XXXJ1A DNDVD5GMC3XXXJ1B	DNDVD5GMC3XXXJ1C
			39110-2S279	DNDVD5GMC3XXXL5A DNDVD5GMC3XXXL5B DNDVD5GMC3XXXL8A	DNDVD5GMC3XXXL8B
	2023		39110-2S042	DNEVD5GMC3XXXM1A	DNEVD5GMC3XXXM1B

**ROM ID Information Table: Event # 1075**

Model	MY	System	TCU Part Number	ROM ID	
				Old	New
DN8	2022	TCU	39110-2S040	SDN8G25NB2	SDN8G25NB5
			39110-2S279	SDN8G25NB3 SDN8G25NB4	

**ROM ID Information Table: Event # 1076**

Model	MY	System	ECU Part Number	ROM ID	
				Old	New
DN8a	2020	ECU	39102-2SDB0	DNB VN5GMC3XXXDBB DNB VN5GMC3XXXDCA DNB VN5GMC3XXXG2F DNB VN5GMC3XXXG2G	DNB VN5GMC3XXXG2H
	2021		39104-2SDF0	DNC VN5GMC3XXXF0A DNC VN5GMC3XXXG2F DNC VN5GMC3XXXG2G	DNC VN5GMC3XXXG2H
			39100-2SDH0	DNC VN5GMC3XXXG2A DNC VN5GMC3XXXG2B DNC VN5GMC3XXXG2C	DNC VN5GMC3XXXG2D
	2022		39100-2SDK0	DND VN5GMC3XXXJ1A DND VN5GMC3XXXJ1B	DND VN5GMC3XXXJ1C

**ROM ID Information Table: Event # 1077**

Model	MY	System	TCU Part Number	ROM ID	
				Old	New
DN8a	2020	TCU	39102-2SDB0	SDN8G25NB0 SDN8G25NB1	SDN8G25NB5
	2021		39104-2SDF0	SDN8G25NB0 SDN8G25NB1	
			39100-2SDH0	SDN8G25NB2	
	2022		39100-2SDK0	SDN8G25NB2	

**Manual Mode Password: Event # 1074**

ECM Menu	Password
DN8 2.5 GDI 8AT 22MY ISG 39110-2S040	5232
DN8 2.5 GDI 8AT 22MY ISG 39110-2S279	5233
DN8 2.5 GDI 8AT 23MY ISG 39110-2S042	5234

**Manual Mode Password: Event # 1075**

TCU Menu	Password
DN8 2.5 GDI 8AT ISG 39110-2S038/040/279/042	5241

**Manual Mode Password: Event # 1076**

ECM Menu	Password
DN8A 2.5 GDI 8AT 20MY ISG 39102-2SDB0	5251
DN8A 2.5 GDI 8AT 21MY ISG 39104-2SDF0	5252
DN8A 2.5 GDI 8AT 21MY ISG 39100-2SDH0	5253
DN8A 2.5 GDI 8AT 22MY ISG 39100-2SDK0	5254
DN8A 2.5 GDI 8AT 22MY ISG 39100-2SDM0	5255

**Manual Mode Password: Event # 1077**

TCU Menu	Password
DN8A 2.5 GDI 8AT ISG 39102-2SDB0/F0/H0/K0/M0	5241