



HYUNDAI Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 25-01-048H
DATE SEPTEMBER 2025	MODEL(S) SEE BELOW

SUBJECT: CLUSTER SPEEDOMETER SOFTWARE UPDATE
(SERVICE CAMPAIGN TDQ)

★ IMPORTANT

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.

Access the “Vehicle Information” screen via WebDCS to identify open campaigns.





Description: Certain Sonata (DN8) and Sonata (DN8) N-Line trim vehicles equipped with the Super Vision instrument cluster (12.3” wide) may have speedometers that display the incorrect speed and/or an inoperative turbo boost gauge. This bulletin provides instructions to perform a software update to resolve this concern.



Applicable Vehicles:

Model Year	Model	Production Dates
2024 – 2025	Sonata (DN8)	10/20/2023 – 12/30/2024
	Sonata (DN8) N-Line trim	10/20/2023 – 04/17/2025

SST Information:

Tool Name	Tool Number	Figure	Remarks	Ordering Information
VCI 3	G0VHNNN06		VCI 3 comes with the 19-pin cable (P/N G1XDDCA020 included here for reference)	Website: https://hyundaiessentialtools.com/ Email: Hyundaitools@snapon.com Phone: 1-855-763-9199 Hours: 7 AM – 7 PM CST
19-Pin Cable	G1XDDCA020			
VCI 2	G1XDDMN001		If using VCI 2, the ECI Kit will be required to complete software updates.	
Ethernet Communication Interface (ECI) Kit	G0XDDMN052			

GDS Information:

System	Event Number*	Description
CLU	1243	DN8 PE/DN8 PE HEV/DN8 PE N-LINE CLU LOGIC IMPROVEMENT

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

NOTE 1: The software upgrade is subject to an OTA (Over-the-air) option and may be completed by customers with active Bluelink subscriptions.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Sonata (DN8)	50D169R0	Cluster Speedometer Software Update	0.6 M/H	940C3-L1020	W11	ZZ3

NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.

NOTE 2: If a part is found in need of replacement while performing this campaign 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.

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.

ROM ID Information:

Model	Event	System	ECU Part Number	ROM ID	
				Current	Latest
Sonata (DN8)	1243	CLU	940C3-L1020	CP12_M.AP.HMC.ALL.0000.V003.049.231027	CP12_M.AP.HMC.ALL.0000.V003.049.250226
				CP12_M.AP.HMC.ALL.0000.V003.049.240703	
				CP12_M.AP.HMC.ALL.0000.V003.049.240911	
				CP12_M.AP.HMC.ALL.0000.V003.049.241212	

Service Procedure:

DIGITAL DOCUMENTATION



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

Ensure the vehicle's battery charge is **above 11.0 Volts** and the tablet's battery charge is **above 30%** before performing a software update to avoid the update from failing.

i Information

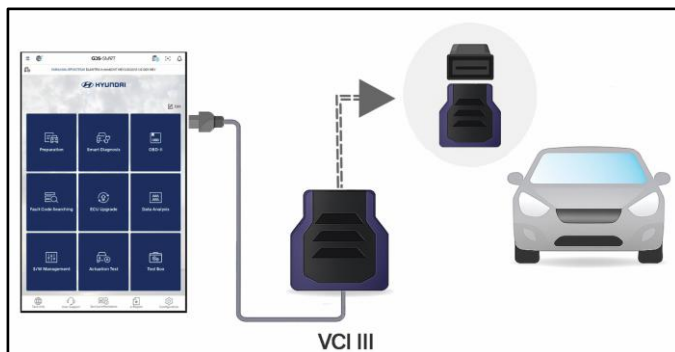
- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during the update.
- Do **NOT** start the engine during the update.
- Do **NOT** turn **OFF** the ignition switch during the update.

Configuration of Ethernet Communication on Tablet PC

i Information

Refer to **TSB 23-GI-006H** for detailed information on configuring Ethernet communication for setup.

1. Connect the Ethernet Communication Interface (ECI) DLC cable to the OBD connector of the vehicle.
2. Connect the VCI DLC cable to the ECI.
3. Select the appropriate tablet cable (type C, 5-pin) to the ECI.
4. Connect the cable to the tablet PC.



i Information

The connection between the VCI 2 and tablet PC is wireless, whereas the tablet PC is connected to the vehicle through the ECI (Ethernet adapter).

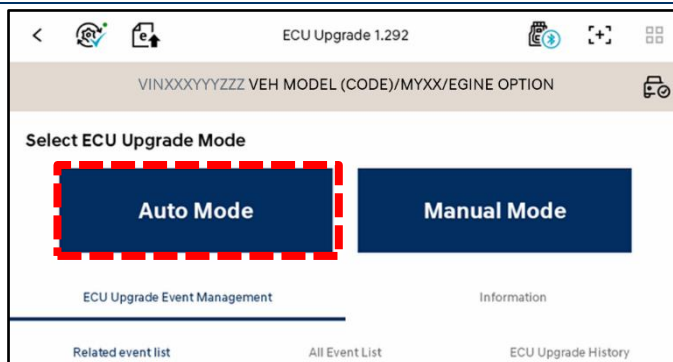
If using the VCI 3, the ECI is **NOT** needed. Connect the tablet directly to the VCI 3 using the USB-C to 19-Pin Cable supplied in the VCI 3 Kit.

ECU Update Procedure

1. Perform the ECU update in **Auto Mode**.

i Information

Refer to **TSB # 25-GI-011H**, “**ECU Update Procedure for Tablet-Based GDS-Smart**”, for additional information.



- Verify the ROM ID by selecting the **CLU** system to scan the vehicle's current ROM ID.

NOTICE

Check the current ROM ID version and compare it to the ROM ID Information table before attempting to perform the software update.

NOTICE

If the update fails, remove the power connector from the in-cabin fuse box for at least **5 seconds**. Reassemble and retry the update.

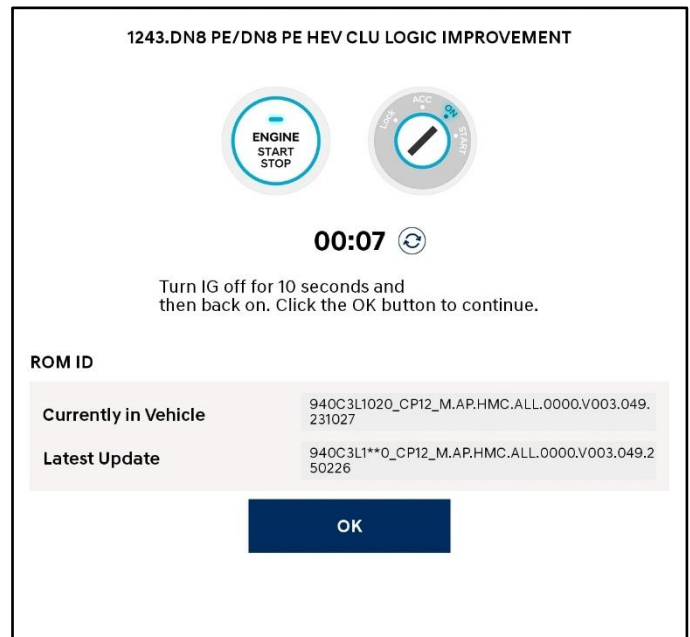


- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds** to reset the control unit (certain models may take up to **30 seconds**).



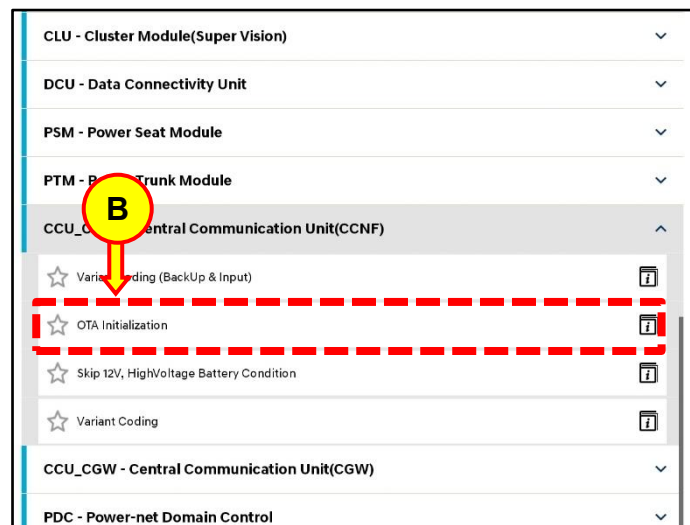
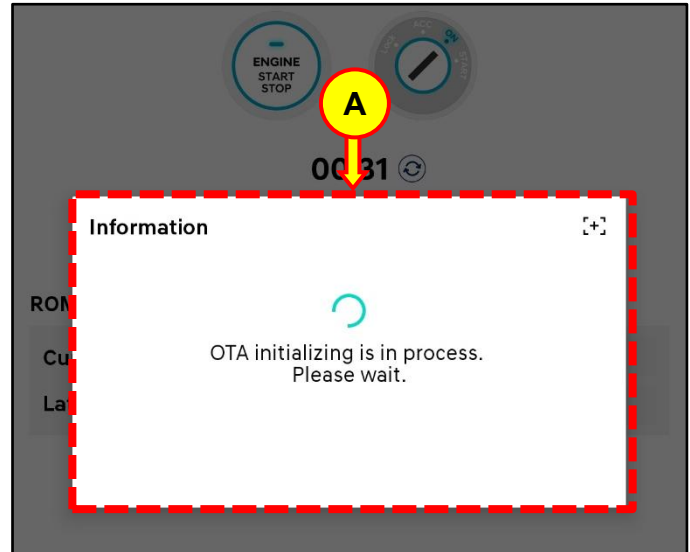
Information

Use the **Refresh** button to reset the timer.



4. OTA initialization (A) should perform automatically:
 - If OTA initialization performs automatically, then proceed with the service procedure.
 - If the OTA initialization process fails, complete it manually under: **S/W Management > CCU_CCNF - Central Communication Unit (CCNF) > OTA Initialization (B).**

Follow the instructions on the screen.

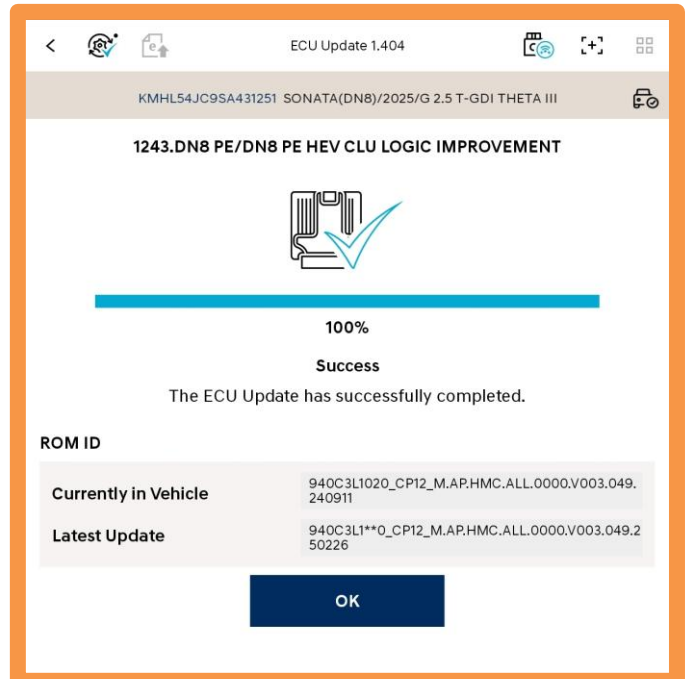


- 5.

DIGITAL DOCUMENTATION



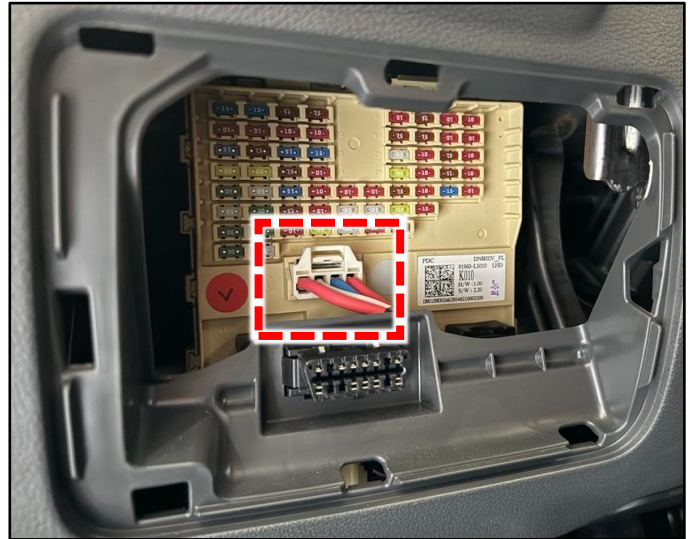
Take a screenshot of the ECU update complete screen using your tablet and upload to STUI.



- 6. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



- 7. Remove the power connector from the in-cabin fuse box for at least **5 seconds**, then reconnect it.



- 8. Start the engine to confirm proper operation of the vehicle.
- 9. The service procedure is now complete.

NOTICE

If the ECU update fails in Auto Mode, perform the update in Manual Mode using the password below.

Manual Mode Password:

Event	ECM Menu	Password
1243	DN8 PE/DN8 PE HEV/DN8 PE N-LINE CLU 940C3-L1020	1288