



# Technical Service Bulletin

GROUP <b>CAMPAIGN</b>	NUMBER <b>25-01-059H-1</b>
DATE <b>NOVEMBER 2025</b>	MODEL(S) <b>TUCSON (NX4)</b>

**SUBJECT:** DCU SOFTWARE UPDATE  
(SERVICE CAMPAIGN TDFA)

This TSB supersedes 25-01-059H to add additional information for VCI 2 connection and IP settings on pages 4-5.

**★ 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 Tucson (NX4) vehicles may exhibit a Data Communication Unit (DCU) software error due to the internal timer initialization logic not being implemented. The DCU module may shut down telematics services after one year. This bulletin provides instructions to perform a software update for the DCU module.

**Applicable Vehicles (Certain):**

Model Year	Model	Production Dates
2025	Tucson (NX4)	08/06/2024 – 09/05/2025

**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: <a href="https://hyundaiessentialtools.com/">https://hyundaiessentialtools.com/</a>  Email: <a href="mailto:Hyundaitools@snapon.com">Hyundaitools@snapon.com</a>  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			

**SUBJECT:**

DCU SOFTWARE UPDATE (SERVICE CAMPAIGN TDFA)

**GDS Information:**

Model	System	Event Number*	Description
Tucson (NX4)	DCU	1297	NX4 OB PE/NX4 PE/NX4 PE HEV/NX4a PE/NX4m PE DCU LOGIC IMPROVEMENT (NA)

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

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

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Tucson (NX4)	50D236R0	DCU Software Update	0.4 M/H	96510-N9140	M73	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:** Op times include VIN, mileage, and photo capture of the ECU Update “Success” result screen as outlined in the Digital Documentation Policy.

**ROM ID Information:**

Model	Event	System	ECU Part Number	ROM ID	
				Current	Latest
Tucson (NX4)	1297	DCU	96510-N9140	120.NA.011509.011509 120.NA.011606.011606 120.NA.011646.011646 120.NA.011951.011951	120.NA.012054.012054

## 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 update failure.

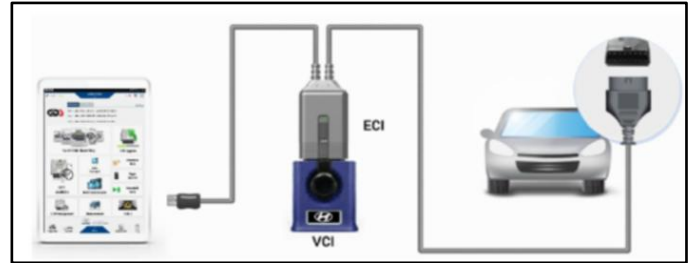
***i* Information**

- 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

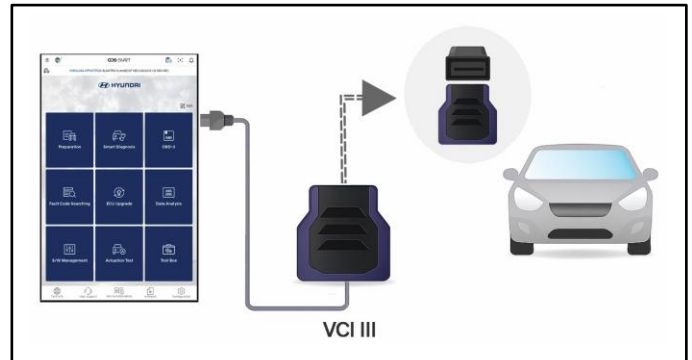
VCI 2 Connection (must use ECI kit with USB-C cable attachment):

1. Connect the ECI DLC connector to the OBD connector of the vehicle.
2. Connect the VCI to the receiver module on the ECI cable.
3. Connect the ECI cable with the USB-C connector cable attachment to the tablet.



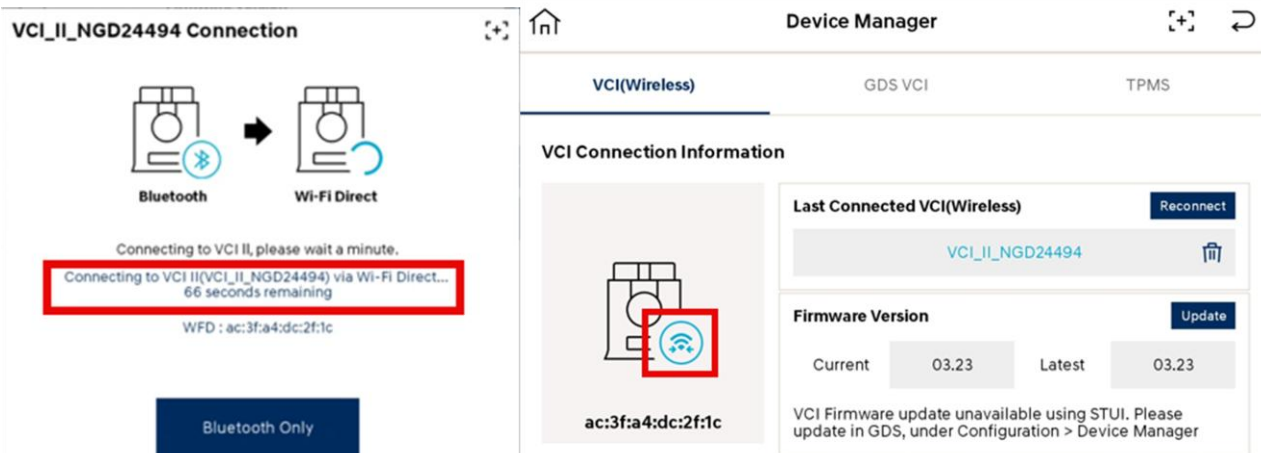
VCI 3 Connection (use VCI 3 cable):

1. Connect the 19-pin connector to the bottom of the VCI 3.
2. Connect the VCI to the OBD connector of the vehicle.
3. Connect the cable with the USB-C connector to the tablet.



**Information**

- If using VCI 2, please wait for the **Wi-Fi Direct** timer to complete to ensure the **Wi-Fi Direct** connection is established. Do **NOT** select **Bluetooth Only**.



**ECU Update Procedure**

1. Enter the following digits exactly as shown for IP address, DNS address, Netmask and Default gateway.

Save and close.

**IP address – 10.0.128.0**

**DNS address – 8.8.8.8**

**Netmask – 255.0.0.0**

**Default gateway – 10.0.128.0**



**Information**

Ensure the following IP settings on your tablet matches the below before proceeding with the software update.

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



**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 **DCU** 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.

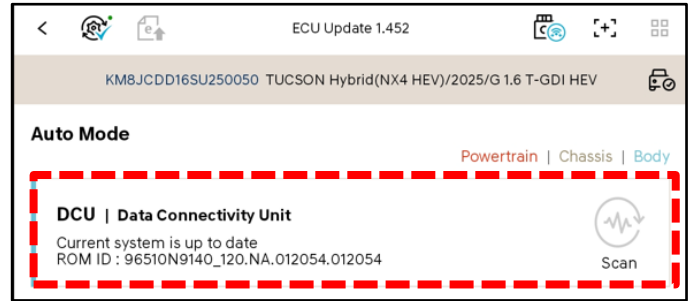
**NOTICE**

If the update fails, remove the power connector from the in-cabin fuse box for at least **5 seconds**, or disconnect the negative (-) **12V** battery terminal then wait at least **5 seconds**. Reassemble and retry the update.



**Information**

The screenshots within this service procedure refers to Tucson Hybrid, but is also applicable to Tucson Internal Combustion Engine (ICE) vehicles.

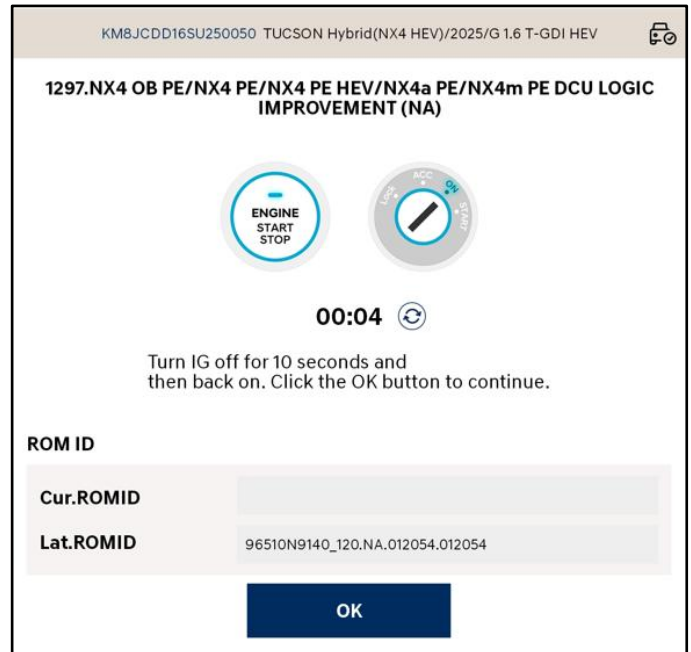


- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds** to reset the control unit (certain models may take up to **30 seconds**).



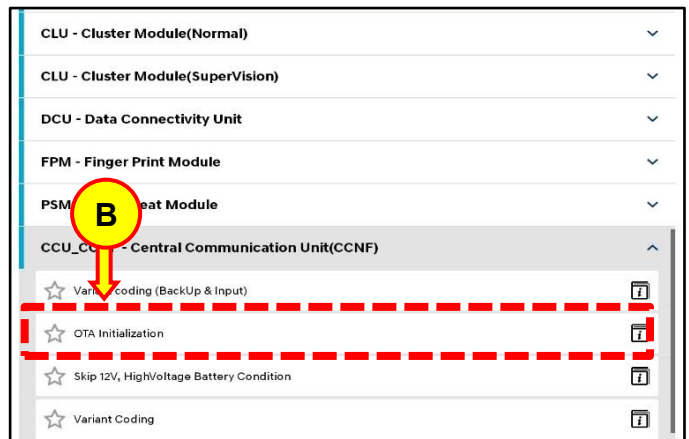
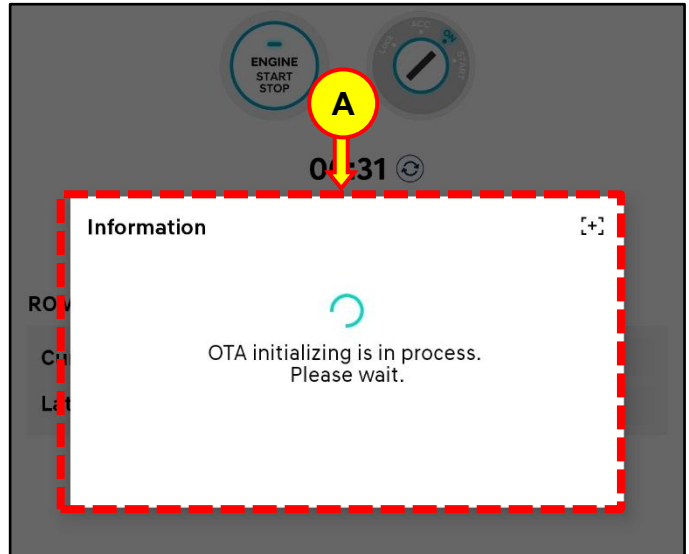
**Information**

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



5. 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.



- 6.

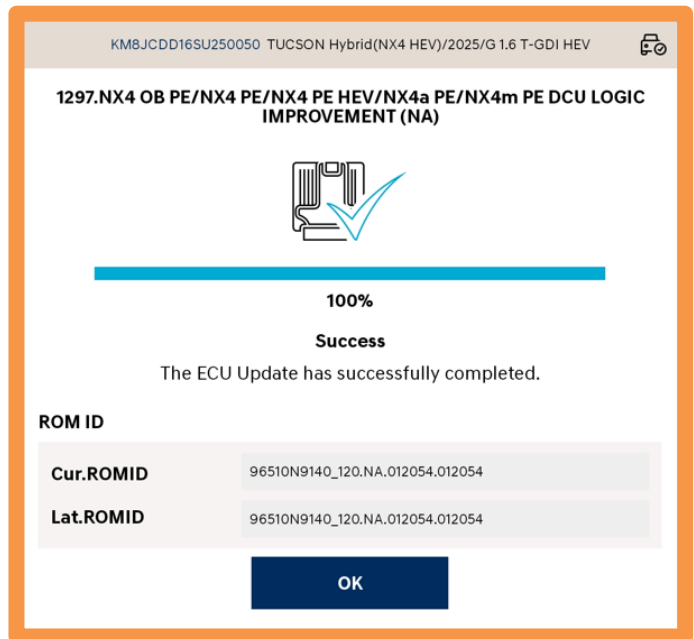
**DIGITAL DOCUMENTATION**



Using the tablet or GDS screen capture function, take a screenshot of the ECU Update "Success" result screen.

Upload the photo to STUI.

**NOTE:** The VIN/Date/Time/Mileage photo imprint is **NOT** required for GDS screenshots.



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



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(s) below.

**Manual Mode Password:**

Event	ECU Menu	Password
1297	NX4 PE DCU 96510-N9140	2419