



Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 25-01-068H-1
DATE NOVEMBER 2025	MODEL(S) SEE BELOW

SUBJECT: OIL PUMP UNIT (OPU) SOFTWARE UPDATE - DTC U100787 (SERVICE CAMPAIGN TEK)

This TSB supersedes 25-01-068H to add additional information for vehicles with active DTC U100787 in step 1 on page 4.

* 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 Hybrid (NX4 HEV) and Tucson Plug-in Hybrid (NX4 PHEV) vehicles may exhibit a condition where the Oil Pump Unit (OPU) prevents the Ready Lamp from turning on. Some vehicles may also display DTC U100787 (malfunction on CAN communication). This bulletin provides instructions to perform a software update for the Powertrain Control Unit (PCU).

Applicable Vehicles (Certain):

Model Year	Model	Production Dates
2025	Tucson Hybrid (NX4 HEV)	6/9/2025 – 7/16/2025
	Tucson Plug-In Hybrid (NX4 PHEV)	6/18/2025 – 6/25/2025

SST Information:

Tool Name	Tool Number	Figure	Ordering Information
VCI 3	G0VHNNN06		Website: https://hyundaiesentialtools.com/ Email: Hyundaitools@snapon.com Phone: 1-855-763-9199 Hours: 7 AM – 7 PM CST
VCI 2	G1XDDMN001		

NOTE: VCI 2 can **NO** longer be ordered but can be used for the updates in this TSB.

SUBJECT:OIL PUMP UNIT (OPU) SOFTWARE UPDATE - DTC U100787
(SERVICE CAMPAIGN TEK)**GDS Information:**

System	Event Number*	Description
PCU	1301	NX4 HEV / PHEV OPU MIL ON IMPROVEMENT

(*or use a later available event listed in the GDS **PCU** Update screen if one is available.)**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Tucson Hybrid (NX4 HEV) & Tucson Plug-In Hybrid (NX4 PHEV)	50D206R0	OPU UPGRADE	0.3 M/H	46190-3D120	I14	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 'Success' screen as outlined in the Digital Documentation Policy.**ROM ID Information:**

Model	Event	System	ECU Part Number	ROM ID	
				Current	Latest
Tucson Hybrid (NX4 HEV) & Tucson Plug-In Hybrid (NX4 PHEV)	1301	OPU	46190-3D120	0094, 0095	0096

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.

**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.

ECU Update Procedure

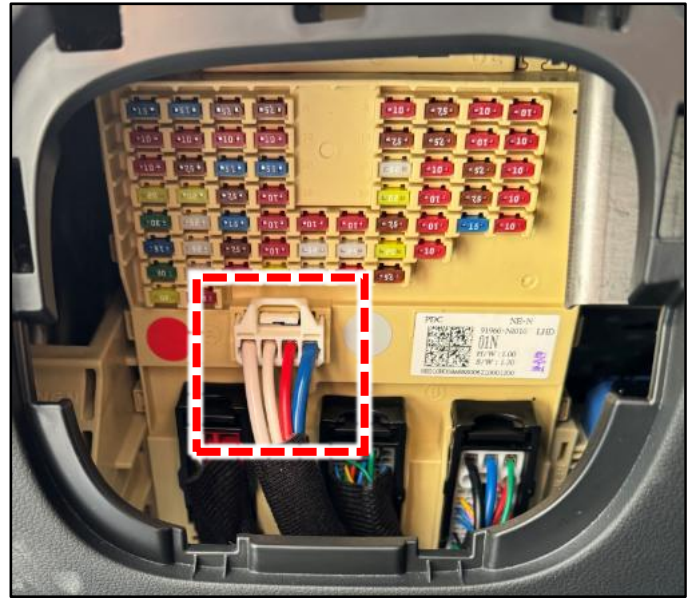
1. Use GDS to scan for **DTC U100787**:
 - If the DTC is **NOT** active, then proceed to **step 2**.
 - If DTC is active, remove the power connector from the in-cabin fuse box for at least **10 seconds**, then reconnect it.

i Information

Alternatively, disconnect the negative (-) **12V** battery terminal, wait at least **10 seconds**, then reconnect it.

i Information

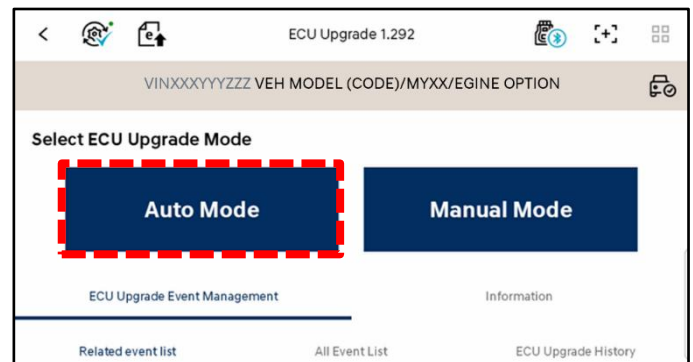
This step re-establishes communication between OPU and ECU for update to successfully execute.



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

i Information

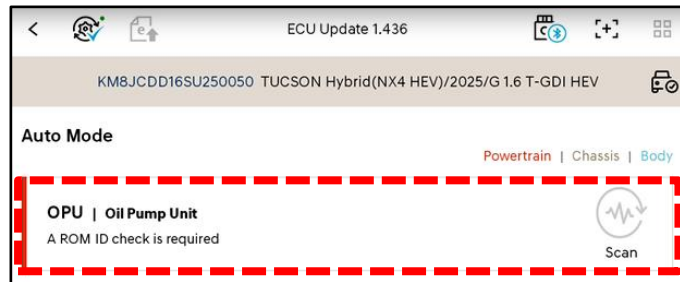
Refer to **TSB # 25-GI-011H**, “ECU Update Procedure for Tablet-Based GDS-Smart”, for additional information.



- 3. Verify the ROM ID by selecting the **OPU** 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**. Alternatively, disconnect the negative (-) **12V** battery terminal, wait at least **5 seconds**. Reassemble and retry the update.

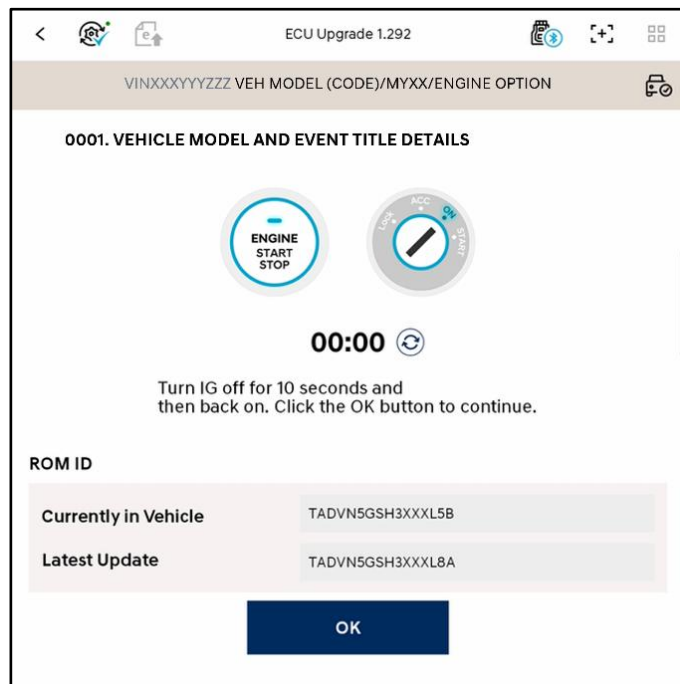
- 4. Select upgrade event **1301.NX4 / PHEV HEV OPU MIL ON IMPROVEMENT**.

- 5. 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**).



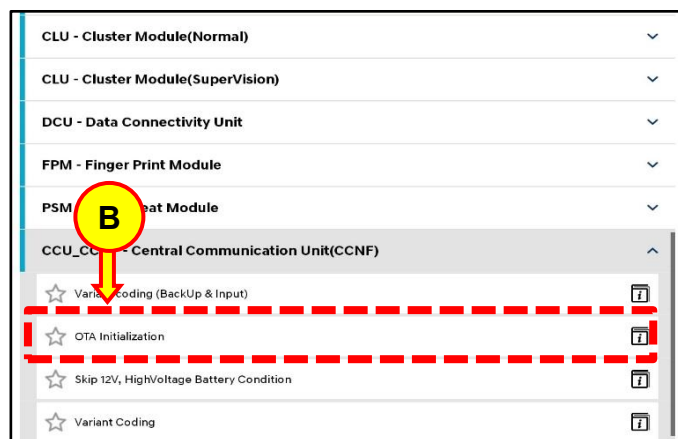
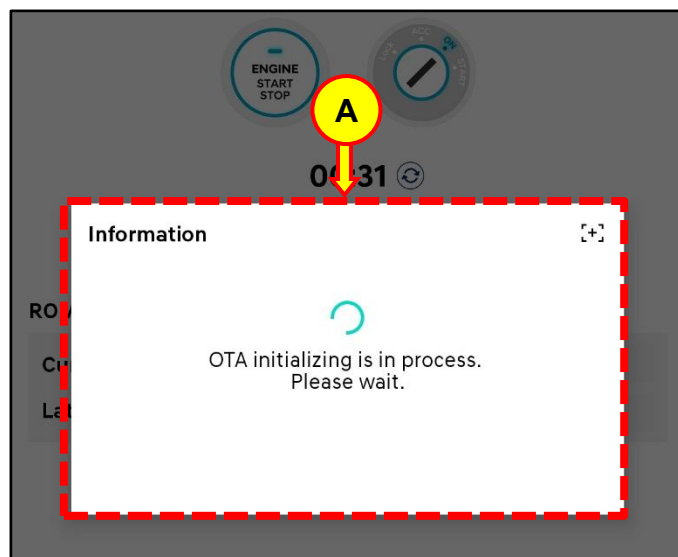
Information

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



6. 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.



7.

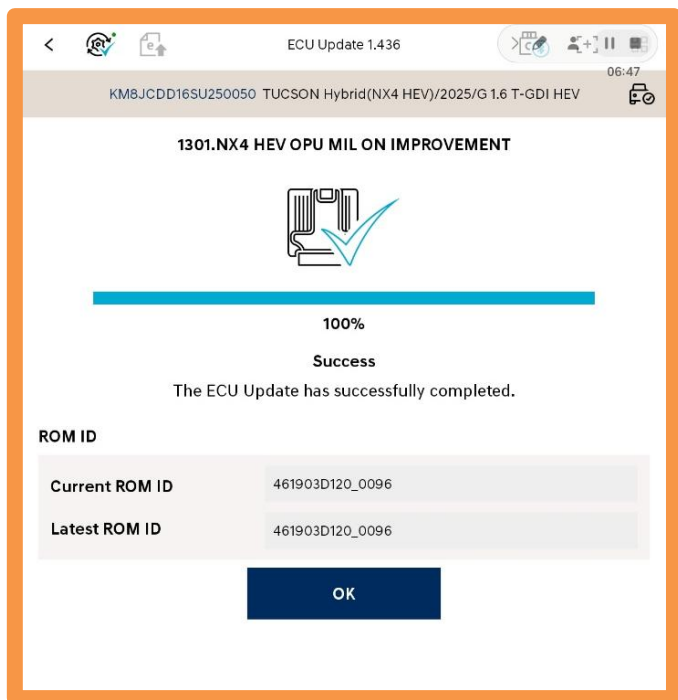
DIGITAL DOCUMENTATION



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.



SUBJECT:**OIL PUMP UNIT (OPU) SOFTWARE UPDATE - DTC U100787
(SERVICE CAMPAIGN TEK)**

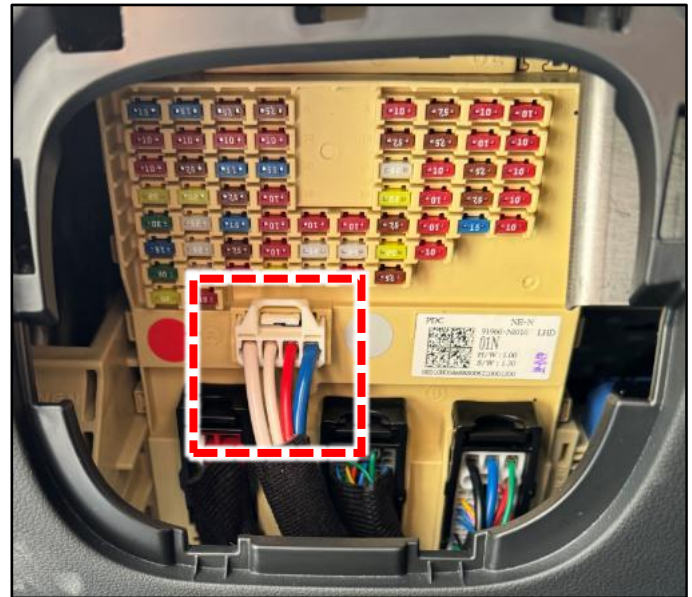
8. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



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

i **Information**

Alternatively, disconnect the negative (-) **12V** battery terminal, wait at least **5 seconds**, then reconnect it.



10. Put vehicle in **READY** mode to confirm proper operation of the vehicle.

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
1301	NX4KH_OPU_1_461903D120	2674