



Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 25-01-079H
DATE OCTOBER 2025	MODEL(S) SANTA CRUZ (NXT)

SUBJECT: DCU SOFTWARE UPDATE
(LIMITED COVERAGE CAMPAIGN LA2)

* IMPORTANT

Dealers must perform this field action on all affected vehicles within 5 years/60,000 miles New Vehicle Limited Warranty (NVLW) prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair. See Warranty Information section for more details.





Access the “Vehicle Information” screen via WebDCS to verify “Warranty Start Date” and ensure the vehicle is within NVLW, observing mileage prior to any repair work.

Description: Certain Santa Cruz (NXT) 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
2025-2026	Santa Cruz (NXT)	07/22/2024 – 08/12/2025

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			

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

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

SUBJECT:

DCU SOFTWARE UPDATE (LIMITED COVERAGE CAMPAIGN LA2)

GDS Information:

Model	System	Event Number*	Description
Santa Cruz (NXT)	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: The software update is subject to an OTA (Over-the-Air) option and may be completed by customers with an active Bluelink Services subscription.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Santa Cruz (NXT)	50DA48R0	DCU Software Update	0.4 M/H	96510-N9140	W11	ZZ3

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

NOTE 2: 5 years/60,000 miles New Vehicle Limited Warranty (NVLW) applies to the part(s) and repair procedure(s) outlined in this TSB. Prior to beginning any repair work, ensure the part(s) associated with the repair procedure are within NVLW, observing mileage and Warranty Start Date or date of first use. If the subject part(s) are out of warranty coverage, the dealer has the option to submit a PA Request for goodwill consideration on a case-by-case basis.

NOTE 3: If any part(s) not subject to this TSB are found in need of replacement while performing the repair procedure, and the affected part(s) are still under warranty, the dealer may submit a separate claim using the same repair order. If the part(s) not subject to this TSB are out of warranty coverage, the dealer has the option to submit a PA Request for goodwill consideration on a case-by-case basis.

NOTE 4: This TSB includes repair validation photos. 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
Santa Cruz (NXT)	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**

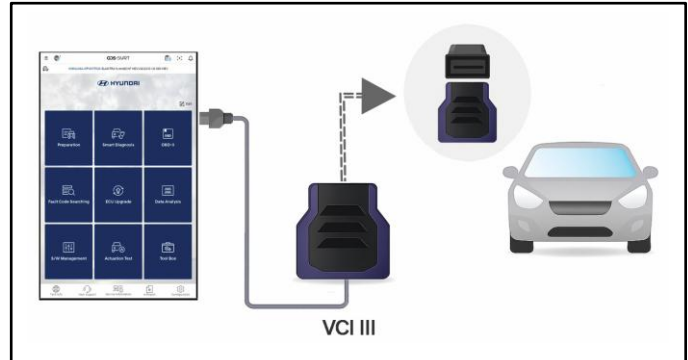
- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during the update.
- Do **NOT** start the engine during the update.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

Configuration of Ethernet Communication on Tablet 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

VCI 2: Connect the GDS tablet (wired) or PC (wireless) using the ECI kit.

VCI 3: Connect the GDS tablet to the vehicle using the 19-pin cable.

i 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**.

The screenshot shows the 'Device Manager' application. On the left, a 'VCI_II_NGD24494 Connection' dialog is open, showing 'Bluetooth' and 'Wi-Fi Direct' options. A red box highlights the text: 'Connecting to VCI II(VCI_II_NGD24494) via Wi-Fi Direct... 66 seconds remaining'. Below this, a 'Bluetooth Only' button is visible. On the right, the 'VCI Connection Information' panel shows 'Last Connected VCI(Wireless)' as 'VCI_II_NGD24494' with a 'Reconnect' button. The 'Firmware Version' section shows 'Current' as '03.23' and 'Latest' as '03.23', with an 'Update' button. A note at the bottom states: 'VCI Firmware update unavailable using STUI. Please update in GDS, under Configuration > Device Manager'.

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

***i* Information**

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

Select Ethernet device
eth0

Connection type
 DHCP
 Static IP

IP address
10.0.128.0

Netmask
255.0.0.0

DNS address
8.8.8.8

Default router
10.0.128.0

DISCARD SAVE

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.

ECU Upgrade 1.292

VINXXXXXXXX VEH MODEL (CODE)/MYXX/ENGINE OPTION

Select ECU Upgrade Mode

Auto Mode Manual Mode

ECU Upgrade Event Management Information

Related event list All Event List ECU Upgrade History

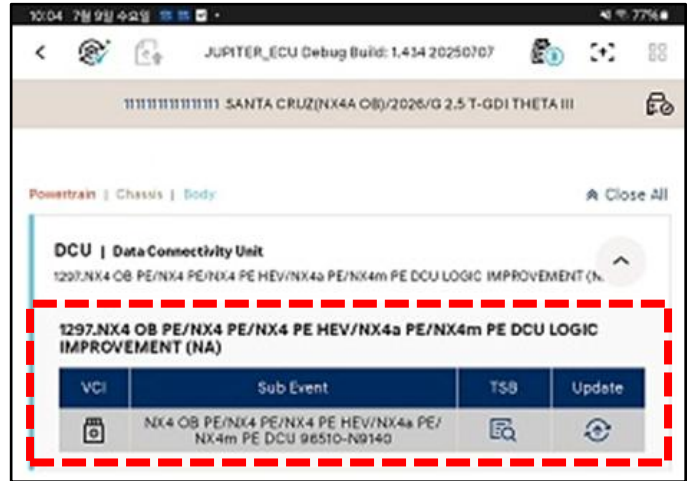
- Verify the ROM ID by selecting the **DCU** system to scan the vehicle's current ROM ID.

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.

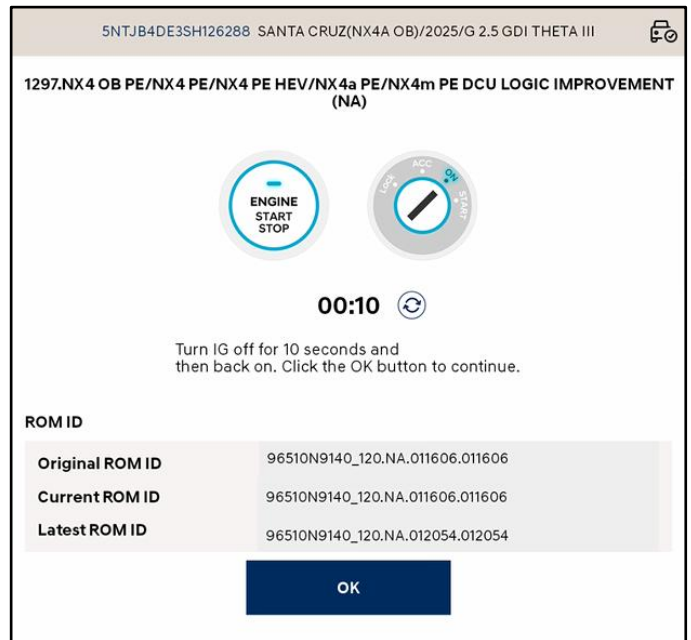


- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds** to reset the control unit (certain models may take up to **30 seconds**).



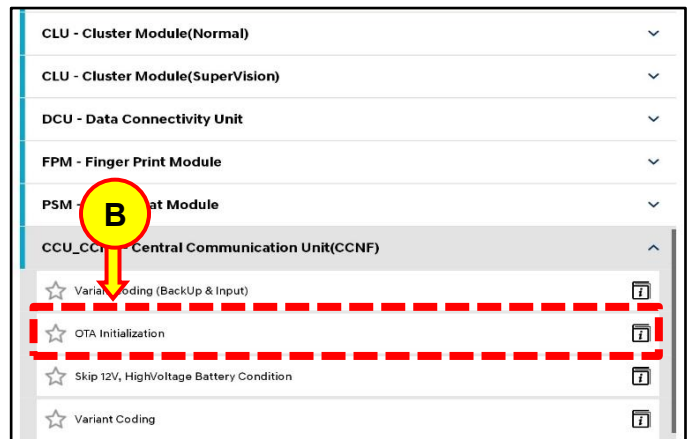
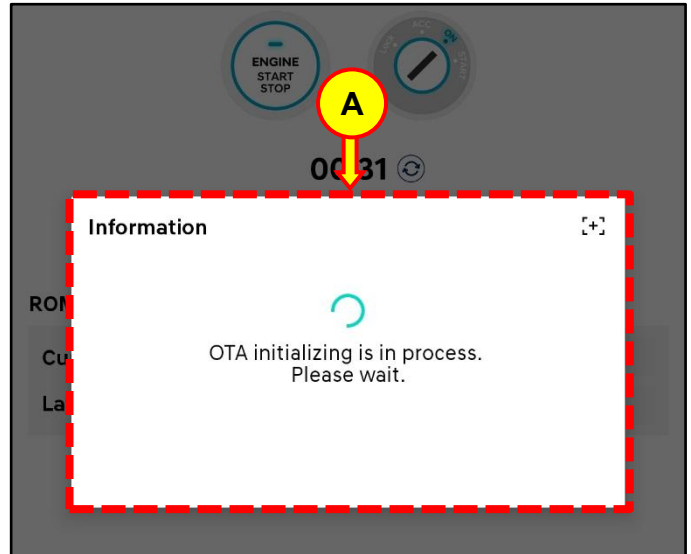
Information

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.

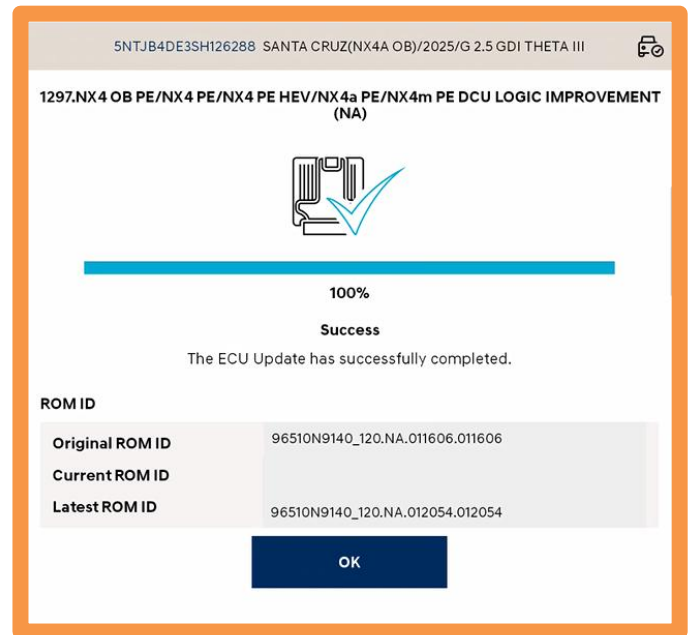
DIGITAL DOCUMENTATION



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 OB PE DCU 96510-N9140	2419