



Technical Service Bulletin

GROUP RECALL	NUMBER 26-01-048H
DATE MAY 2026	MODEL(S) SEE BELOW

SUBJECT: FRONT VIEW CAMERA FORWARD COLLISION AVOIDANCE (FCA) LOGIC IMPROVEMENT (RECALL 302)

*** IMPORTANT**

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

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

Description: Certain Tucson (NX4, NX4A, NX4M), Tucson Hybrid (NX4 HEV), Tucson Plug-in Hybrid (NX4 PHEV), and Santa Cruz (NXT) vehicles’ Forward Collision Avoidance (FCA) system may exhibit increased sensitivity to forward object proximity in certain driving scenarios due to the front camera software. This condition can result in FCA engagement earlier than the driver’s expectation, potentially leading to sudden braking. Sudden braking may increase the risk of a rear-end crash with closely following vehicles.



This bulletin provides instructions to perform a software update for the FCA system.

Applicable Vehicles (Certain):

Model Year	Model	Production Dates	VIN Starts With
2025 – 2026	Tucson (NX4)	08/06/2024 – 12/30/2025	KM8
	Tucson (NX4A)	07/16/2024 – 04/14/2026	5NM
2025	Tucson (NX4M)	06/05/2024 – 03/31/2025	3KM
2025 – 2026	Tucson Hybrid (NX4 HEV)	06/18/2024 – 03/26/2026	KM8
	Tucson Plug-in Hybrid (NX4 PHEV)	07/09/2024 – 03/23/2026	
	Santa Cruz (NXT)	07/22/2024 – 04/01/2026	5NT

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SST Information:

Tool Name	Tool Number	Figure	Ordering Information
VCI 3	G0VHNNN06		Website: https://hyundaessentialtools.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.

GDS Information:

System	Event Number*	Description
FR_CMR	1391	NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR LOGIC IMPROVEMENT

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

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Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Tucson (NX4, NX4A, NX4M)	61D081R0	Front View Camera Software Update	0.3 M/H	99211-N7030	I11	ZZ3
Tucson Hybrid (NX4 HEV)						
Tucson Plug-in Hybrid (NX4 PHEV)	61D081R1	Front View Camera Software Update & Calibration (ONLY when DTC C2721 occurs)	0.5 M/H			
Santa Cruz (NXT)						

NOTE 1: Submit a campaign claim on the "Claim Entry/Edit/Submit" screen on WebDCS and attach all required Digital Documentation per TSB to the claim.

NOTE 2: 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 retailer 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 retailer has the option to submit a PA Request for goodwill consideration on a case-by-case basis.

NOTE 3: Op times include VIN, mileage, and photo capture of the ECU Update "Success" result screen as outlined in the Digital Documentation Policy.

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ROM ID Information:

Model Year	Model	Event	System	ROM ID	
				Current	Latest
2025 – 2026	Tucson (NX4, NX4A)	1391	FR_CMV	99211N7030_HY_P0NX4_04_24191	99211N7035_HY_P0NX4_04_25491
	Tucson Hybrid (NX4 HEV)				
Tucson Plug-in Hybrid (NX4 PHEV)					
Santa Cruz (NXT)					
2025	Tucson (NX4M)				
2025 – 2026	Tucson (NX4, NX4A)			99211N7050_HY_P0NX4_04_25192	99211N7060_HY_P0NX4_04_25391
	Tucson Hybrid (NX4 HEV)				
	Tucson Plug-in Hybrid (NX4 PHEV)				
	Santa Cruz (NXT)			99211CW500_HY_P0NX4_04_25191	

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 12.5 Volts** and the tablet's battery charge is **above 30%** before performing a software update to avoid update failure.

***i* Information**

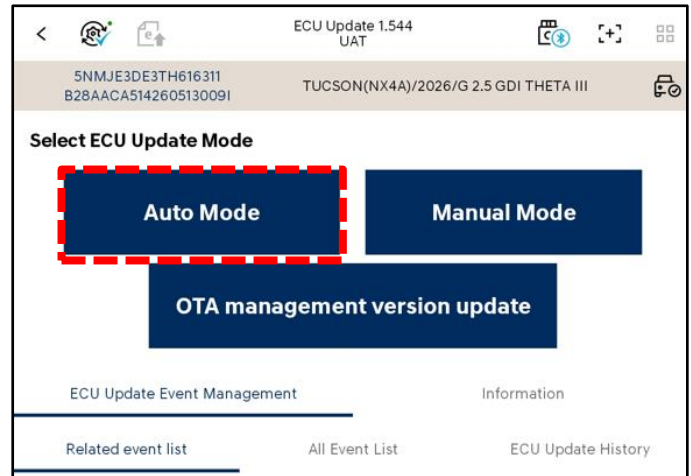
- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during the update.
- Do **NOT** start the engine OR place in **Ready**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

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.

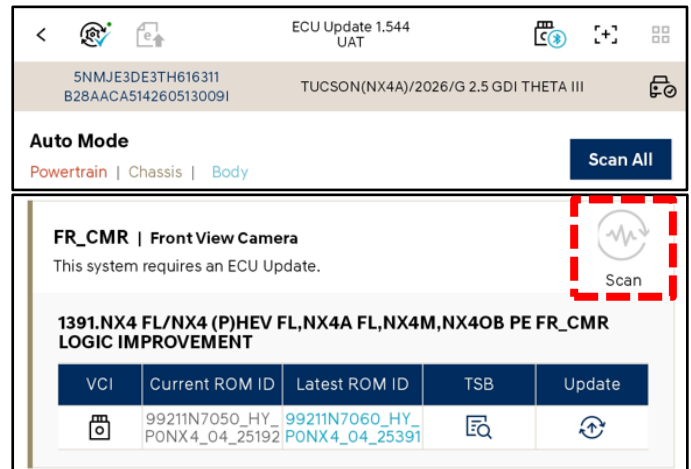


2. Verify the ROM ID by selecting the **FR_CMR** system to scan the vehicle’s current ROM ID.

NOTICE

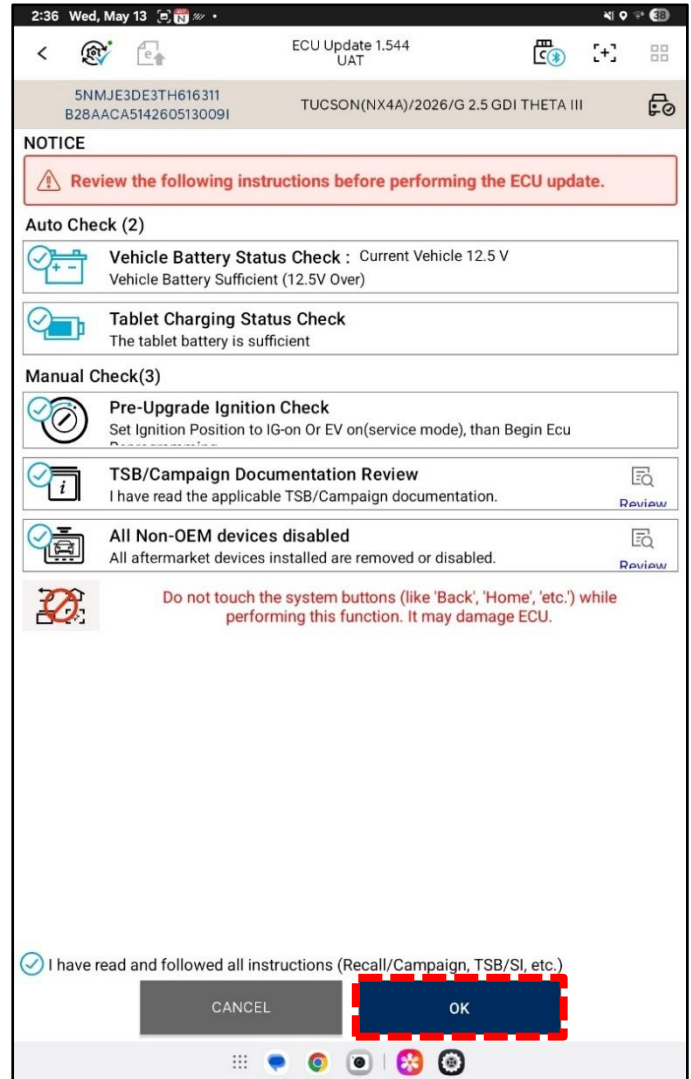
Check the current ROM ID version and compare it to the ROM ID Information table before attempting to perform the software update.

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 and wait at least **5 seconds**. Reassemble and retry the update.



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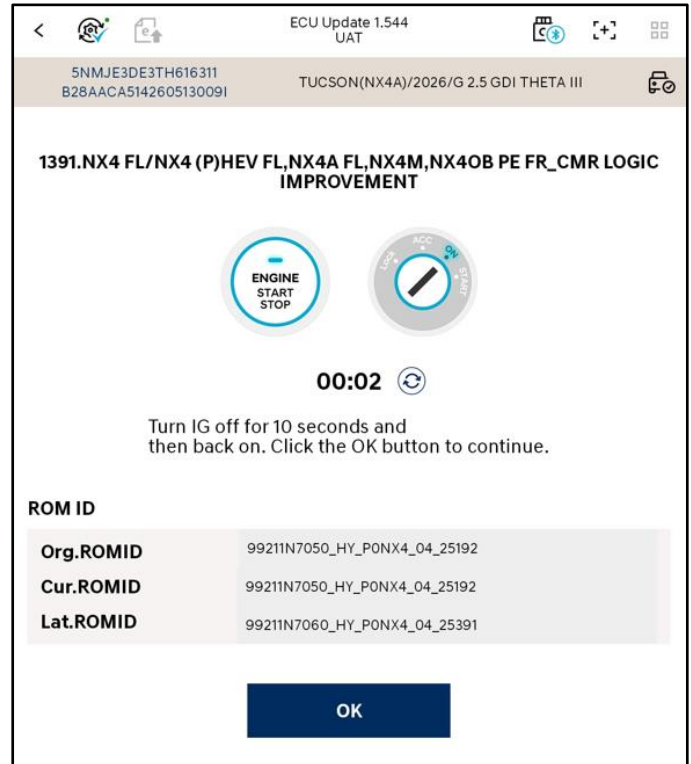
3. Review the instructions before performing the ECU Update. Check off the items in the manual checks, then press **OK**.



4. 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**).

i **Information**

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



- 5.

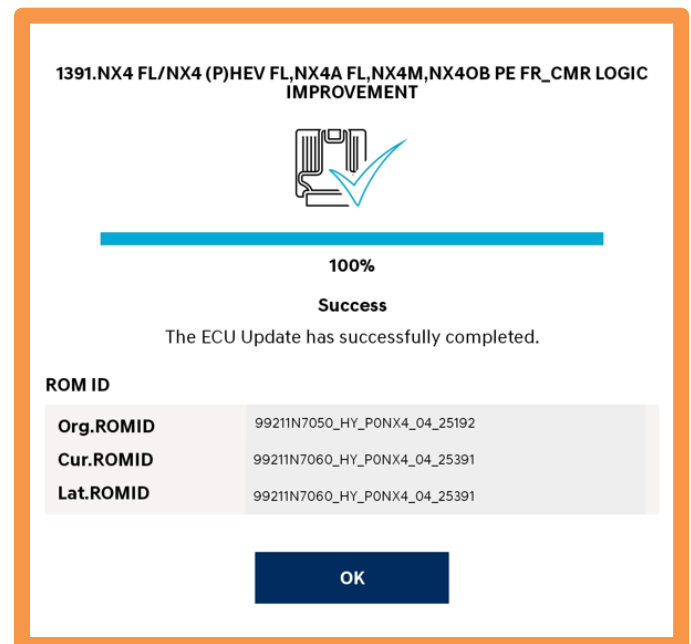
DIGITAL DOCUMENTATION



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.



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









7. If DTC **C2721** occurs, perform front camera calibration using **Front Camera Driving Calibration (SPC)** in the GDS, or by referring to the shop manual.
 - **Advanced Driver Assistance System > Driver Driving Assistance System > Front Camera > Adjustment**
8. Start the engine OR place in **Ready** mode 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.

When in manual mode, choose the sub event that corresponds to the correct P/NO listed on **page 3**. In the example below, the P/NO is 99211-N7000. Select the top sub event update and use the corresponding password.

1391.NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR LOGIC IMPROVEMENT			
VCI	Sub Event	TSB	Update
	NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR 99211-N7000/20/30		
	NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR 99211-N7050/CW500		

Manual Mode Password:

Event	Menu	Password
1391	NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR 99211-N7000/20/30	3528
	NX4 FL/NX4 (P)HEV FL,NX4A FL,NX4M,NX4OB PE FR_CMR 99211-N7050/CW500	6655