



HYUNDAI

Technical Service Bulletin

GROUP
**AUTOMATIC
TRANSMISSION**

NUMBER
26-AT-004H

DATE
JUNE 2026

MODEL(S)
SEE BELOW

SUBJECT: DRIVABILITY & JUDDER IMPROVEMENT – 8WDCT TCU UPDATE
FOR VEHICLES WITH 2.0T ENGINES

This bulletin supersedes TSB 23-AT-013H to include an updated title and description, indicating this service procedure should be performed prior to replacing the dual-clutch transmission for a drivability concern.

Description: This bulletin provides information related to a Transmission Control Unit (TCU) software update for some vehicles equipped with an 8-speed wet dual clutch transmission (8WDCT). The software update revises the touch point learning variation, improving drivability and judder symptoms. Certain 8WDCTs (indicated by a new part number) received an updated clutch spring. The correct TCU software update must be matched with the correct corresponding 8WDCT hardware, otherwise, drivability concerns may occur. This service procedure should be performed prior to any 8WDCT replacements done for drivability/judder concerns.

Applicable Vehicles:

Model Year	Model	Engine
2022 & Later	Elantra N (CN7 N)	Theta 2.0T
2022 – 2023	Kona N (OS N)	
2021 – 2022	Veloster N (JS N)	

Parts Information – **BEFORE** Improvement 8WDCT:

Model	Event No.	Trans Type	8WDCT Assembly Part Number		Remarks	TCU Calibration ID
			T/M Assembly	Reman		
Elantra N (CN7 N)	900	SBC, 2WD + ELSD	430F0-2N071	N/A	w/ TCU	WCN7T20XXX900NS4
			43000-2N070	43000-2N070RM	w/o TCU	
Kona N (OS N)	899		430F0-2N061	N/A	w/ TCU	WOSNT20XXX900NS6
			43000-2N060	43000-2N060RM	w/o TCU	
Veloster N (JS N)	898		430F0-2N031	N/A	w/ TCU	WJSNT20XXX900NS7
			43000-2N002	43000-2N002RM	w/o TCU	

NOTE: SBC = Shift By Cable

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SST Information:

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

Model	System	Event Number*	Description
Elantra N (CN7 N)	AT	900	CN7 N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)
Kona N (OS N)		899	OS PE N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)
Veloster N (JS N)		898	JS N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)

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

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Elantra N (CN7 N)	954A0F02	TCU Software Update (BEFORE improved 8WDCT) + Vehicle Calibration	0.7 M/H	954A1-2N510	S21	ZZ3
Kona N (OS N)				954A1-2N410		
Veloster N (JS N)				954A1-2N020		

NOTE 1: Normal warranty applies.

NOTE 2: Submit claim on Claim Entry Screen as “Warranty” type.

NOTE 3: This TSB includes repair validation photo(s). Op times include VIN, mileage, and photo capture of the ECU Update “Success” result screen as outlined in the Digital Documentation Policy.

NOTE 4: 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.

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ROM ID Information:

Model	Event	System	TCU Part Number	ROM ID	
				Current	Latest
Elantra N (CN7 N)	900	AT	954A1-2N510	WCN7T20XXX800NS0 WCN7T20XXX800NS1 WCN7T20XXX832NS2 WCN7T20XXX900NS3 WCN7T20XXX800NS0 WCN7T20XXX800NS1 WCN7T20XXX832NS2	WCN7T20XXX900NS4
Kona N (OS N)	899		954A1-2N410	WOSNT20XXX730NS0 WOSNT20XXX730NS1 WOSNT20XXX800NS2 WOSNT20XXX800NS3 WOSNT20XXX832NS4 WOSNT20XXX900NS5	WOSNT20XXX900NS6
Veloster N (JS N)	898		954A1-2N020	WJSNT20XXX700NS0 WJSNT20XXX700NS1 WJSNT20XXX700NS2 WJSNT20XXX730NS3 WJSNT20XXX800NS4 WJSNT20XXX832NS5 WJSNT20XXX900NS6	WJSNT20XXX900NS7

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Service Procedure:

DIGITAL DOCUMENTATION



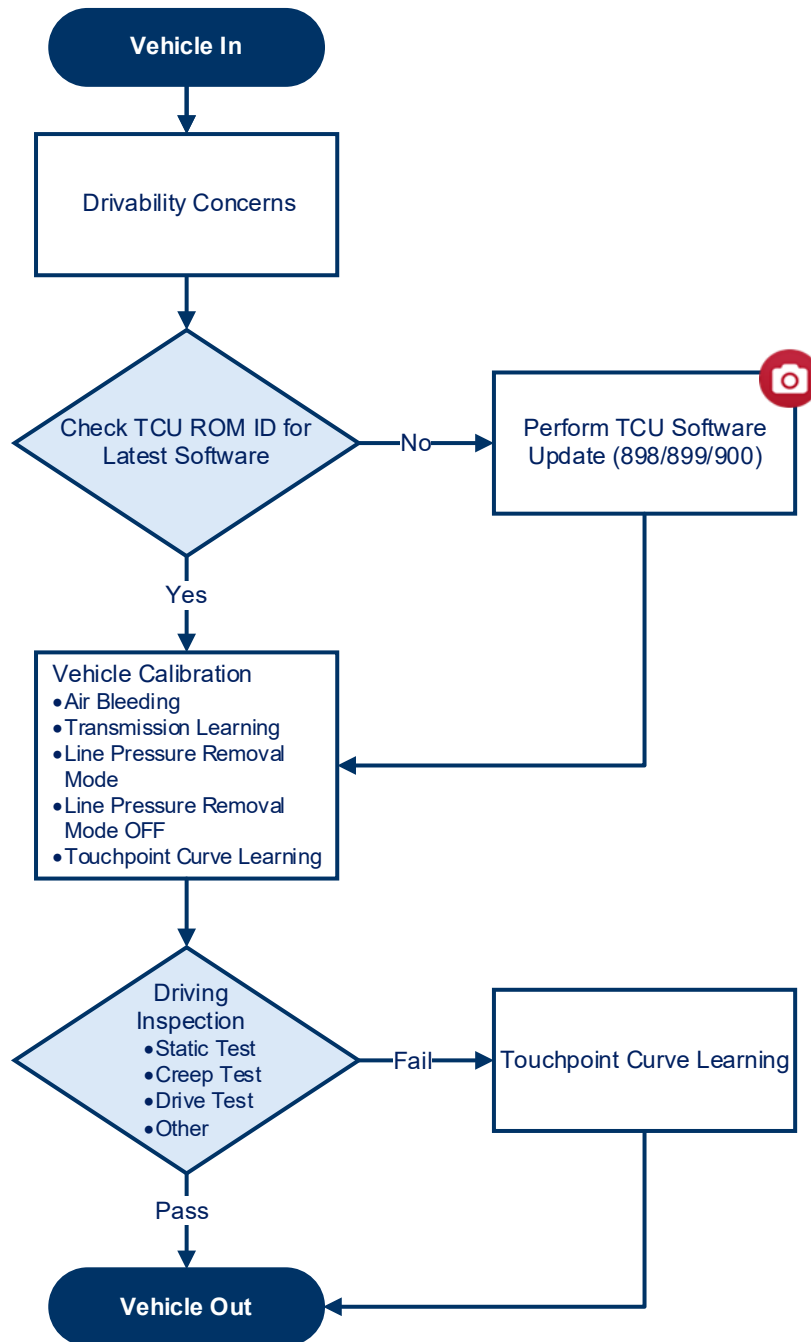
This TSB includes repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

NOTICE

Applying the recommended torque to all fasteners is essential to reduce potential issues from occurring after the service procedure.

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FOR VEHICLES WITH 2.0T ENGINES****Flowchart**

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FOR VEHICLES WITH 2.0T ENGINES****TCU Update Procedure****NOTICE**

You must initially perform TCU 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 **≥12.3 Volts** and the tablet's battery charge is **above 30%** before performing a software update, to avoid update failure. Hyundai recommends connecting a battery maintainer/charger when performing **all ECU updates**.

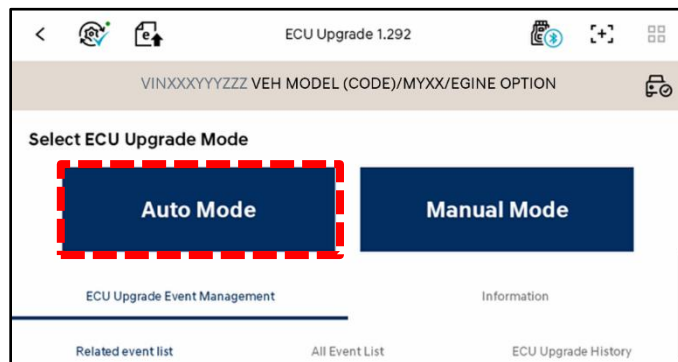
**Information**

- 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.

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

**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 **AT / Transmission** system to scan the vehicle's current ROM ID.

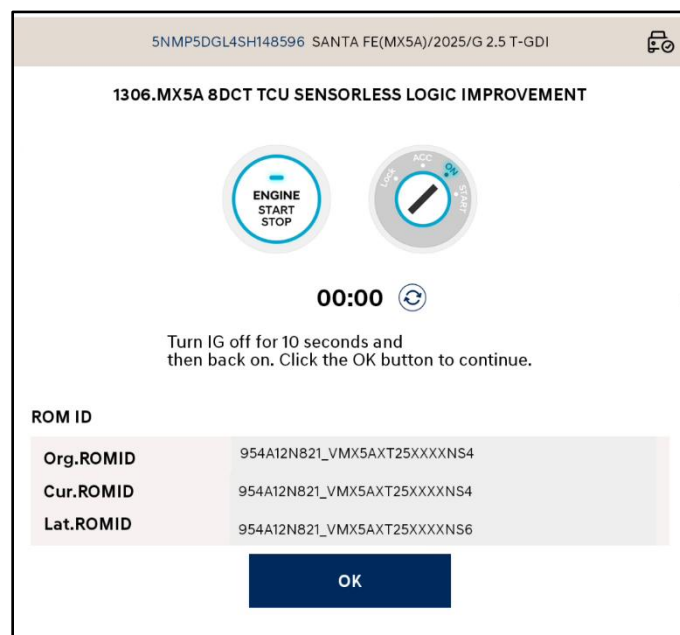
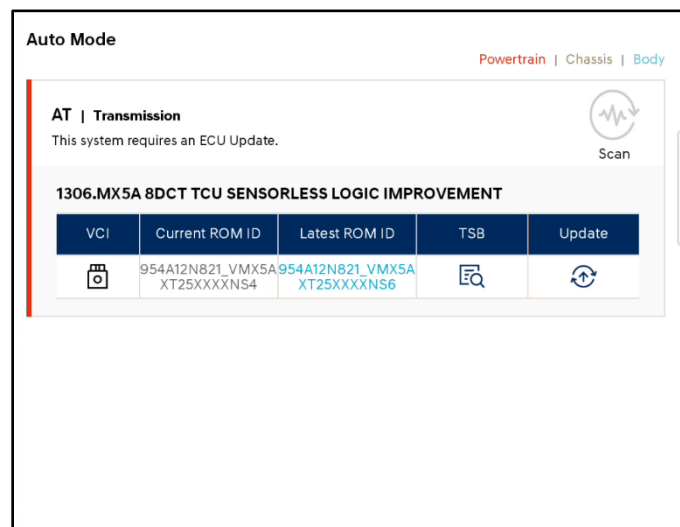
NOTICE

- 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.

3. 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.



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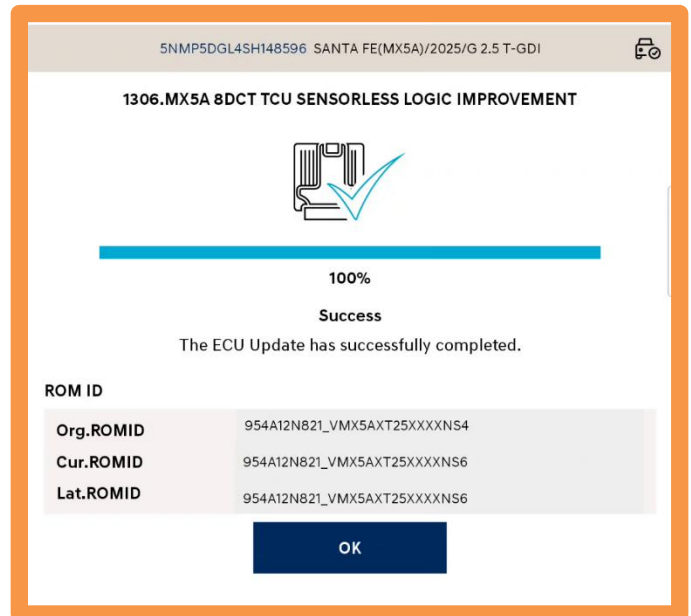
4.

**DIGITAL
DOCUMENTATION**

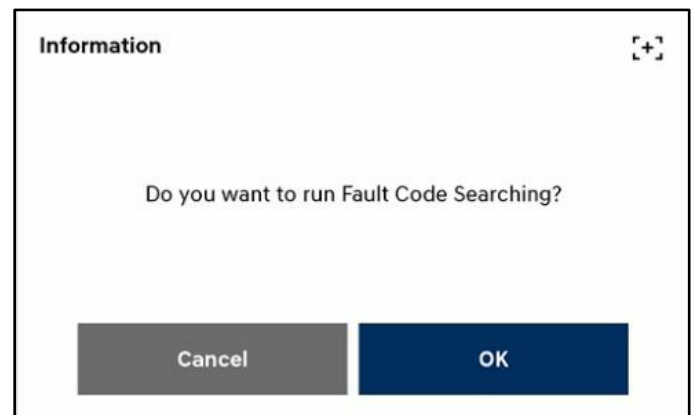
Using the tablet or GDS screen capture function, take a screenshot of the ECU Update "Success" result screen.

Upload the photo to STUI.

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



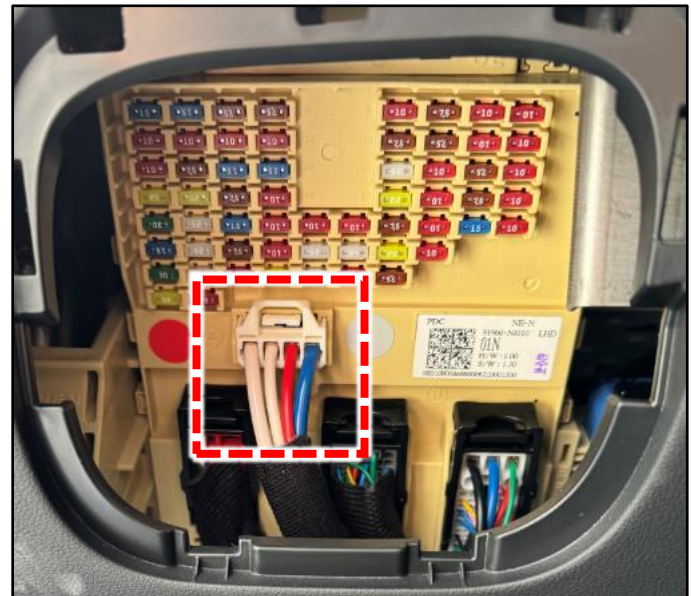
6. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



7. 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.



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8. Start the engine to confirm proper operation of the vehicle.
9. Proceed to the [Vehicle Calibration Procedures](#).

NOTICE

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

Manual Mode Password:

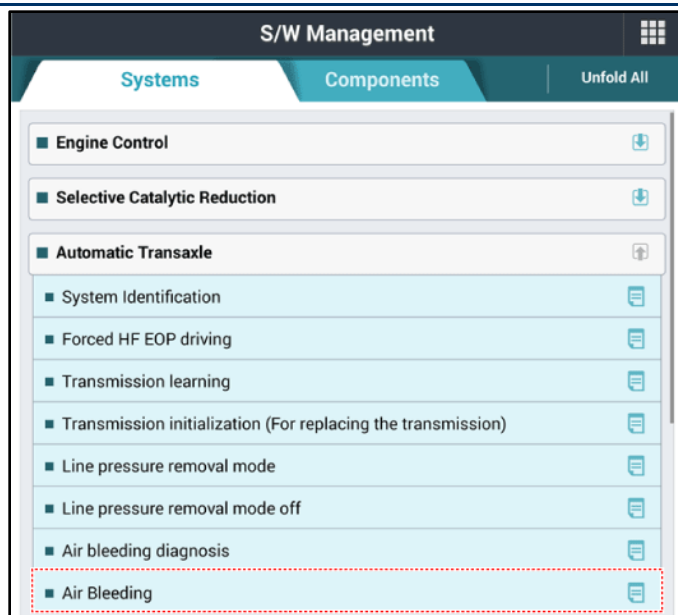
Event	Menu	Password
898	JS N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)	2020
899	OS PE N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)	2410
900	CN7 N THETA 2.0T SOL. VALVE OPERATING FREQUENCY LOGIC IMPROVEMENT(TCU)	2510

Vehicle Calibration Procedures

1. Using GDS, perform the following procedures in this order:
 - **Air bleeding**
 - **Transmission learning**
 - **Line pressure removal mode**
 - **Line pressure removal mode off**
 - **Touchpoint curve learning**

Refer to the shop manual:

- **Dual Clutch Transmission System (Dual Clutch Transmission) > Dual Clutch Transmission System > Repair procedures > Installation**



Vehicle Driving Inspection

1. Perform a Static test:
 - a) Vehicle ignition **ON**.
 - b) With brake pedal depressed, shift the gears as follows:
N > D/N > R/P > D/P > R
 - c) Confirm vehicle does **NOT** exhibit abnormal shock.
 - d) Repeat steps b and c above **3 times**.
2. Perform a Creep test:
 - a) Vehicle ignition **ON**.
 - b) With brake pedal depressed, shift gear from **P** to **D**.
 - c) With brake pedal depressed, shift gear from **P** to **R**.
 - d) Confirm that vehicle starts moving within **1-2 seconds**, without engine hesitation or juddering.
 - e) Repeat steps **b**, **c**, and **d** above **3 times**.
3. Check for DTCs and any concerns during the tests in steps 1 and 2, such as brake signal, gear tightening, hydraulic pressure, etc.
4. If the vehicle exhibits delayed acceleration, jerking, or shift shock after the inspections above, then re-perform the **Touchpoint curve learning** procedure.
5. If issues are found, follow the normal diagnostic process.

If issues remain after a detailed diagnostic process, then replace the 8WDCT assembly referring to **TSB 22-AT-011H, 8-Speed Wet DCT Replacement Instructions**.

**Information**

The transmission assembly should **ONLY** be replaced after the TCU update and all other diagnostic procedures have been completed. Refer to standard HMA warranty policy and procedures for DCT replacement.