



# HYUNDAI

## Technical Service Bulletin

GROUP <b>CAMPAIGN</b>	NUMBER <b>25-01-072H-1</b>
DATE <b>OCTOBER 2025</b>	MODEL(S) <b>SANTA FE (MX5A)</b>

**SUBJECT:** TCU SOFTWARE UPDATE FOR 8DCT HIGH PRESSURE ELECTRIC OIL PUMP (SERVICE CAMPAIGN TEJ)

This TSB supersedes 25-01-072H to add a new GDS event number and related ROM ID and Manual Mode Password information (pages 2, 3, & 7).

**★ 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 Santa Fe (MX5A) vehicles equipped with 8-speed dual clutch transmissions (8DCT) may set one of the high pressure electric oil pump (HP EOP) DTCs listed below. This bulletin provides the service procedure to update the Transmission Control Unit (TCU) with improved logic to address the DTCs above and enhance operation of the 8DCT.

**HP EOP DTCs**

DTC	Description
P1C2D03	HP EOP Motor Position Sensor
P1C2D1C	
P1C2E92	HP EOP Motor Control
P1C2E94	

**Applicable Vehicles (Certain):**

Model Year	Model	Transmission	Production Dates
2024 - 2025	Santa Fe (MX5A)	8DCT	12/28/2023 - 07/07/2025

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**SST Information:**

Tool Name	Tool Number	Figure	Ordering Information
VCI 3	G0VHNNN06		Website: <a href="https://hyundaessentialtools.com/">https://hyundaessentialtools.com/</a>
VCI 2	G1XDDMN001		Email: <a href="mailto:Hyundaitools@snapon.com">Hyundaitools@snapon.com</a>  Phone: 1-855-763-9199 Hours: 7 AM – 7 PM CST

**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
Santa Fe (MX5A)	AT / Transmission	1306	MX5A 8DCT TCU SENSORLESS LOGIC IMPROVEMENT
		1328	MX5A 8DCT TCU SENSORLESS LOGIC IMPROVEMENT (820 / 830)

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

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

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Santa Fe (MX5A)	50DA39R0	TCU Software Update	0.5 M/H	954A1-2N821	I11	ZZ3

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

**NOTE 2:** This TSB includes repair validation photo(s). Op times include VIN, mileage, and photo capture of the ECU Update “Success” screen as outlined in the Digital Documentation Policy.

**NOTE 3:** If a part is found in need of replacement while performing this TSB 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.

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**ROM ID Information:**

Model	Event	System	Detail	ECU Part Number	ROM ID	
					Current	Latest
24-25MY Santa Fe (MX5A)	1306	AT/ Transmission	2WD & 4WD	954A1-2N821	VMX5AXT25XXXXNM0	VMX5AXT25XXXXNS6
					VMX5AXT25XXXXNS0	
					VMX5AXT25XXXXNS1	
					VMX5AXT25XXXXNS2	
					VMX5AXT25XXXXNS3	
					VMX5AXT25XXXXNS4	
	4WD (XRT)		954A1-2N831	VMX5AXT25XXTXNM0	VMX5AXT25XXTXNS6	
				VMX5AXT25XXTXNS0		
				VMX5AXT25XXTXNS1		
				VMX5AXT25XXTXNS2		
				VMX5AXT25XXTXNS3		
				VMX5AXT25XXTXNS4		
24MY Santa Fe (MX5A)	1328	2WD & 4WD	954A1-2N820	VMX5AXT25XXXXNS0	VMX5AXT25XXXXNS7	
				VMX5AXT25XXXXNS1		
				VMX5AXT25XXXXNS2		
		4WD (XRT)	954A1-2N830	VMX5AXT25XXTXNS0	VMX5AXT25XXTXNS7	
				VMX5AXT25XXTXNS1		
				VMX5AXT25XXTXNS2		
					VMX5AXT25XXTXNS3	

**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**

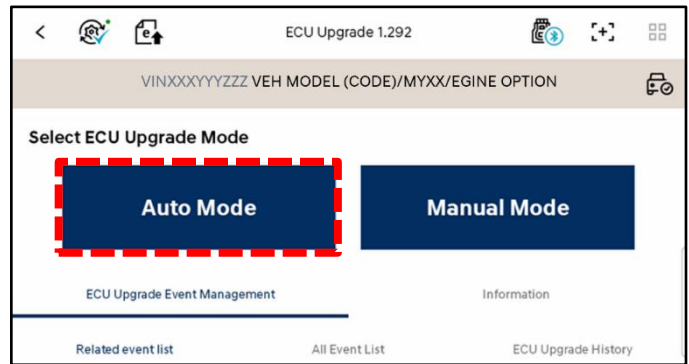
- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during the update.
- Do **NOT** start the engine during the update.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

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

**i Information**

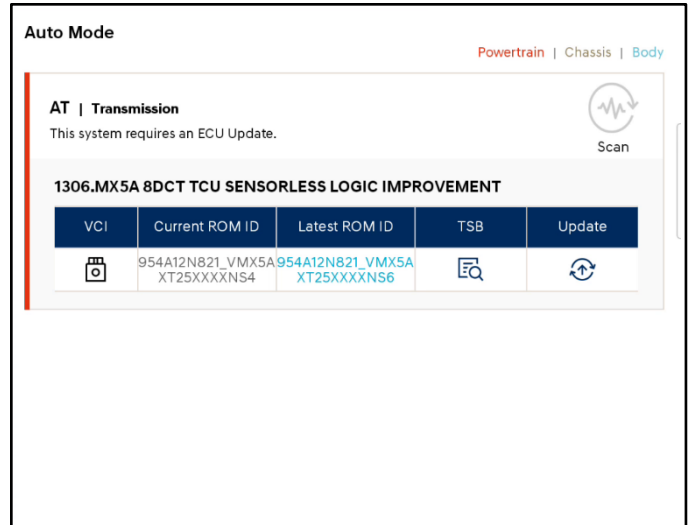
Refer to **TSB # 25-GI-011H**, “ECU Update Procedure for Tablet-Based GDS-Smart”, for additional information.



2. Verify the ROM ID by selecting the **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.



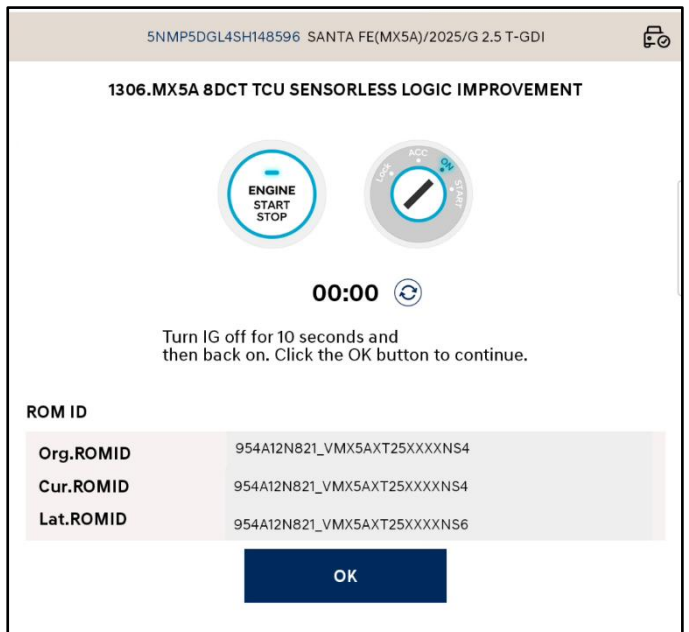
**NOTICE**

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 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**).

**i Information**

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



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4.

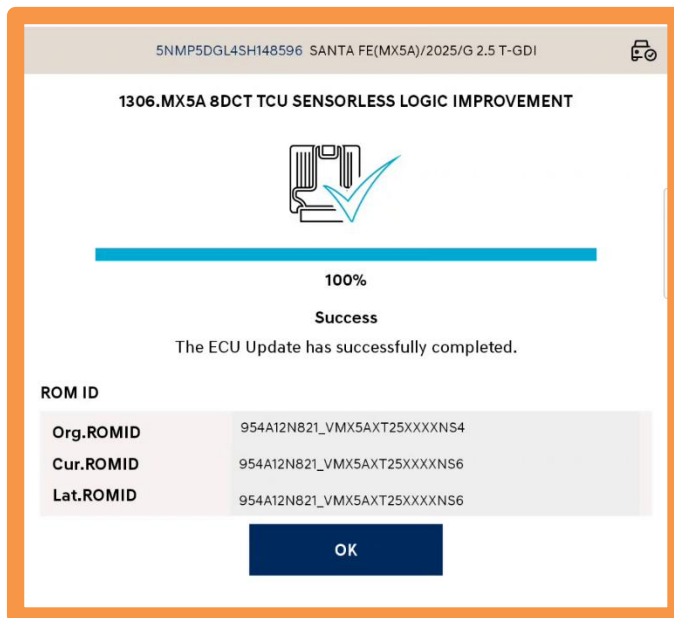
**DIGITAL DOCUMENTATION**



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.



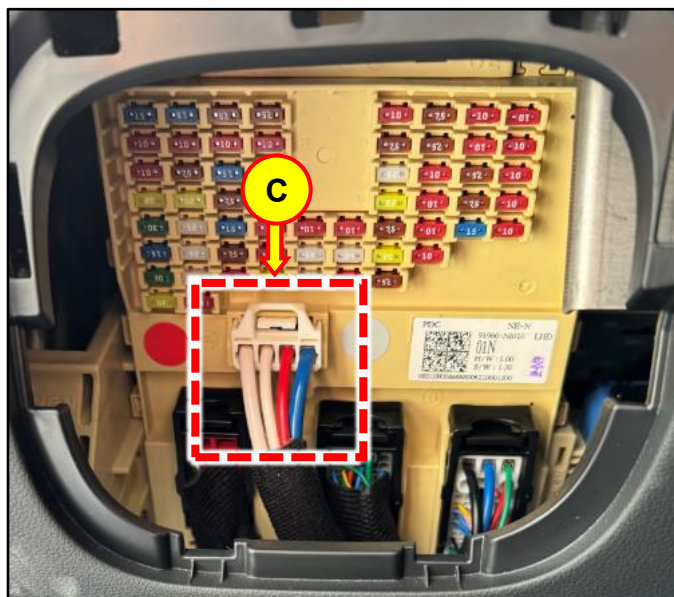
5. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.



6. Remove the power connector (C) 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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7. Start the engine to confirm proper operation of the vehicle.
8. 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
1306	MX5A_TCU_1_954A12N821	6268
	MX5A_TCU_1_954A12N831	6207
1328	MX5a 2.5T DCT 954A1-2N820	2820
	MX5a 2.5T DCT 954A1-2N830	2830