

Subject: DELATED RESPONSE DURING RE-ACCELERATION AFTER DECELERATION (H3T MHEV)	Bulletin No.: 05-007/24
	Last Issued : 10/22/2024

BULLETIN NOTES

APPLICABLE MODEL(S)/VINS

2024 CX-90 (MHEV inline 6) with VINS lower than JM3KK*****161438 (produced before February 29, 2024)

DESCRIPTION

Some customers may complain about a delayed response during re-acceleration after deceleration. The delayed response during idle restart after i-stop, just before the vehicle stops, may cause this symptom. To eliminate this concern, the control software of the TCM has been modified.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Reprogram the **PCM** and **TCM** with the Mazda Modular Diagnostic System (M-MDS), using the Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure, and then perform TCM Initial Learning, Powertrain Start-up Learning, and Shift Range Learning.

NOTE:

- **Be sure to submit Diagnostic Information (ODR) data as it is a required item and will be checked during warranty claim submission. Instructions can be found under M-MDS -> MDARS (Uploading Diagnostic Information (ODR) Data).**
 - Reprogramming is not necessary if current calibration file name in the ECU FILENAME screen is the same as shown in Calibration Files Information or with later suffix.
 - When TCM has been selected, MDARS will reprogram PCM and TCM together as one software package, but some vehicles need TCM reprogramming only as PCM already has modified software at the factory or by reprogramming for other concerns.
 - After the reprogramming, pending DTC P2610:00 [PCM] may be stored without the CHECK ENGINE light ON. Since this DTC may turn to a current DTC depending on operations after the reprogramming, clear DTC after all repair work is done.
3. Clear any other DTCs.
 4. Verify the repair by starting the engine and confirming there is no CHECK ENGINE light ON or abnormal warning lights present.

NOTE: If any DTCs should remain after deleting DTC, diagnose the DTCs according to the appropriate Troubleshooting section in MGSS.

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5. Perform TCM Initial Learning according to the instructions on MGSS (INITIAL LEARNING OF AT).

- If MDARS screen shows "Failed", perform the learning again.

6. Perform the Learning Cycle for Starting.

- Start the engine.
- Wait for at least 5 seconds.
- Turn the ignition OFF
- Wait for at least 5 seconds.
- Repeat steps (a) through (d) 2 more times (3 cycles total).

7. Perform the Learning Cycle for Shift Ranges.

- Start the engine.
 - While idling, depress the brake pedal and perform the following steps:
 - Move the shift lever in "D".
 - Move the shift lever from "D" to "R" and wait 10 seconds.*
 - Move the shift lever from "R" to "D" and wait 10 seconds.*
- * DO NOT stop in N range while moving the shift lever.
- Repeat steps (1) through (3) 4 more times (5 cycles total).

NOTE: After TCM reprogramming, the customer may notice a shift feeling change temporarily because the hydraulic pressure setting for clutch engagement is not optimized and actual hydraulic pressure may not be stable depending on situations. During driving, the learning process optimizes the hydraulic pressure setting for clutch engagement to stabilize the actual hydraulic pressure. Therefore, in the beginning of driving, light shift shocks and shift feeling change may be felt temporarily.

CALIBRATION

Power-train	Fuel	ECU	File Name (Old)	File Name (New)	Actual time to reprogram
H3T (MHEV inline 6)	Regular	PCM	H301-188K2-P	H301-188K2-R	7 min.
		TCM	H327-21PS1-J	H327-21PS1-K	
	Premium	PCM	H302-188K2-P	H302-188K2-R	7 min.
		TCM	H328-21PS1-J	H328-21PS1-K	

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WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Federal Emission Warranty (long term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	08
Damage Code	9W
Part Number Main Cause	5555-21-100
Quantity	0
Operation Number / Labor Hours:	XXWWCXFX / 0.8 Hrs.

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