

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922



<b>Subject:</b>  A/T WARNING LIGHT ON AFTER ENGINE START WITH DTCs P073D:00-TCM / P1738:00-TCM	<b>Bulletin No.:</b> 05-001/25
	<b>Last Issued :</b> 11/22/2025

## BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below. The changes are noted in Red text.

Previous TSBs:	Date(s) Issued:
05-001/25	05/22/25

## APPLICABLE MODEL(S)/VINS

2023-2025 CX-30 (Mexico built) vehicles with SKYACTIV-G 2.5 with VINs lower than 3MV DM\*\*\*\* \*\* 844741 (Produced before Apr. 21, 2025)

2023-2025 Mazda3 (Japan built) vehicles with SKYACTIV-G 2.5 with VINs lower than JM1 BP\*\*\*\* \*\* 788031 (Produced before Apr. 21, 2025)

2023-2025 Mazda3 (Mexico built) vehicles with SKYACTIV-G 2.5 with VINs lower than 3MZ BP\*\*\*\* \*\* 473323 (Produced before Apr. 21, 2025)

## DESCRIPTION

Some customers may see the A/T warning light on during (or immediately after) engine start-up with DTCs P073D:00-TCM / P1738:00-TCM stored.

- P073D:00-TCM: Turbine/input shaft speed sensor: Sensor output range malfunction
- P1738:00-TCM: Automatic transaxle internal malfunction

This concern is caused by improper TCM logic. To eliminate this concern, the TCM control software has been modified to change the DTC detection logic, preventing DTC judgment during start-up.

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

## REPAIR PROCEDURE

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

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**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.
- 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 (READY ON) 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.

5. Perform TCM Initial Learning according to the instructions on MGSS:

- Mazda3: INITIAL LEARNING OF A/T
- CX-30: INITIAL LEARNING OF A/T

**NOTE:** If MDARS screen shows "Failed", perform the learning again.

**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.

**Explanation to Customer Regarding Avg. Fuel Economy:**

Any ECU reprogramming resets the BCM's average fuel economy (remaining mileage). Therefore, the remaining mileage may change when the customer drives the vehicle after reprogramming. After learning the customer's average fuel consumption (calculated over several drives), the remaining mileage will be correctly displayed.

**CALIBRATION**

ECU	File Name (New)
TCM	PW1S-21PS1-A
	PW1T-21PS1-A
	PW29-21PS1-C
	PW30-21PS1-C

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	PW68-21PS1-B
	PYX9-21PS1
	PYYA-21PS1
	PYYB-21PS1
	PX9S-21PS1-C
	PXLS-21PS1-C
	PW1F-21PS1-A

**NOTE:** This Service Information is only applicable for vehicles using the above calibration files.

## WARRANTY INFORMATION

### NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's Federal Emissions Warranty.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Causal Part No.	5555-21-100
Quantity	0
Operation No. and Labor Hours	XXX26XFX / 0.3 Hrs.

**NOTE:** After reprogramming, be sure to keep a copy of the ECU FILENAME screen on M-MDS, along with the repair order and warranty application sheet.

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