

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: CHECK ENGINE LIGHT ON WITH DTC P0401 STORED IN MEMORY	Bulletin No.: 01-017/18
	Last Issued: 09/14/2018

APPLICABLE MODEL(S)/VINS

2016-2018 CX-9 vehicles with VINs lower than JM3TC*****220639 (produced before January 8, 2018)

DESCRIPTION

Some customers may experience a check engine light on and DTC P0401:00 stored in memory without any drivability issues.

- P0401:00 - [PCM] EGR flow insufficient detected

This concern may be caused by the detection logic for the DTC is too sensitive. To eliminate this concern, the control logic of the PCM 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. Check if the PCM calibration file name of the vehicle is older than one list in the Calibration table below.
 - If the PCM calibration file name is the same or newer, this Service Information does not apply.Diagnose the concern according to the instructions on MGSS online.
 - If the PCM calibration file name is older, keep the freeze frame data on hand and proceed to the next step to reprogram the PCM.
3. Reboot the IDS to clear memory before reprogramming.
4. Using IDS 108.03 or later software, reprogram the PCM to the latest calibration (refer to "Calibration Information" table) by following the "Module Reprogramming" procedure.

NOTE:

- Always update the IDS tool first, then follow on-screen instructions to download the needed calibration file for PCM reprogramming.
- It is not necessary to remove any fuses or relays during PCM reprogramming when the IDS screen prompts you to do so. You may accidentally stop power to one of the PCM terminals and cause the PCM to be blanked, or you may receive error messages during the IDS reprogramming procedure.
- IDS shows the calibration part numbers after programming the PCM.
- Please be aware that PCM calibration part numbers and file names listed in any Service Bulletin may

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change due to future releases of IDS software, and additional revisions made to those calibrations for service related concerns.

- When reprogramming a PCM, IDS will always display the “latest” calibration P/N available for that vehicle. If any calibration has been revised/updated to contain new information for a new service concern/issue, it will also contain all previously released calibrations.
- Start/Stop button vehicles only: DO NOT press the start/stop button during the reprogramming process.
- When performing this procedure, we recommend using the “Power Supply” mode in the Battery Management System to keep the vehicle battery up to capacity. If a different charger is used, make sure it does not exceed 20 AMPS. If it exceeds 20 AMPS, it could damage the VCM.

5. After performing the PCM reprogramming procedure, clear DTCs.

6. After clearing DTCs, start the engine and confirm that no warning lights stay on.

7. Record customer presets in the infotainment system.

8. Disconnect the negative battery cable and wait for 30 seconds or more to reset the fuel control learning data.

9. Re-enter customer presets in infotainment system.

NOTE:

If any DTCs should remain after performing DTC erase, diagnose the DTCs using MGSS online instructions and submit a warranty claim according to the normal warranty procedure.

CALIBRATION INFORMATION

Spec.	Drive	File Name	Applicable MY / VIN Range
US	2WD	PYFL-188K2-N	2016-2017 CX-9
	AWD	PYFM-188K2-N	2016-2017 CX-9
US	2WD	PYD7-188K2-D	2018 CX-9
	AWD	PYD8-188K2-D	2018 CX-9
Mexico	2WD	PYGN-188K2-K	VIN range: 100001 - 199999
	AWD	PYGP-188K2-K	VIN range: 100001 - 199999
Mexico	2WD	PYG1-188K2-D	VIN range: 200001 - 299999
	AWD	PYG2-188K2-D	VIN range: 200001 - 299999

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.

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- This repair will be covered under Fed. Emission Warranty (long term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours:	XXP85XFX 0.3Hrs.

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