

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

CHECK ENGINE LIGHT ON AT IDLE WITH DTCS P22FB:00 AND P1640:00

Bulletin No.: 01-004/22

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BULLETIN NOTES**APPLICABLE MODEL(S)/VINS**

2018-2019 CX-5 with SKYACTIV-D 2.2

DESCRIPTION

Some customers may experience the CHECK ENGINE light ON at idle with DTC P22FB:00 [DCU] and P1640:00 [PCM] stored in memory.

- P22FB:00 [DCU]: NOx sensor No.1: On-board diagnostics canceled
- P1640:00 [PCM]: Powertrain DTCs available in dosing control unit

This is caused by a false malfunction detection occurring under certain conditions. To eliminate this concern, the detection condition of DTC P22FB:00 has been changed.

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

REPAIR PROCEDURE

1. Verify customer concern.
2. Reprogram the DCU (**SCR** in M-MDS) with Mazda Modular Diagnostic System (M-MDS) using IDS 125.02 or later software. Refer to IDS Reprogramming Procedure.
3. Verify the repair by starting the engine and making sure the Check Engine light is OFF and no abnormal warning lights are ON.

NOTE: If any DTC should remain after performing a DTC erase, diagnose the DTC according to the instructions on MGSS.

CALIBRATION

Drive	File Name
2WD	SH9P-187K2-R
AWD	SH9T-187K2-R

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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 CA Emission Warranty (short term) or Federal 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-DCU
Quantity	0
Operation Number / Labor Hours:	XXW2ZXFX / 0.3 Hrs.

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