

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

**CHECK ENGINE LIGHT ON WITH DTC P061B:00 IN HIGH
TEMPERATURES AT HIGH ELEVATIONS**

Bulletin No.: 01-010/19

Last Issued: 05/02/2019

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
01-010/19	03/22/2019
01-021/18	10/22/2018

APPLICABLE MODEL(S)/VINS

US Spec.:

2017-2018 Mazda3 (Mexico built) vehicles with VINs lower than 3MZBN*****277187 (produced before Dec. 20, 2018)

2013-2016 CX-5 vehicles with VINs lower than JM3KE*****921726 (produced before Dec. 21, 2016)

2017-2018 CX-5 vehicles with VINs lower than JM3KF*****443351 (produced before July 2, 2018)

Mexico Spec.:

2014-2016 Mazda3 (Japan built) vehicles with VINs lower than JM1BM***353705 (produced before May 31, 2016)**

2014-2016 Mazda3 (Mexico built) vehicles with VINs lower than 3MZBM*****330142 (produced before Sept. 3, 2016)

2017-2018 Mazda3 (Japan built) vehicles with VINs lower than JM1BN*****199538 (produced before Oct. 31, 2018)

2017-2018 Mazda3 (Mexico built) vehicles with VINs lower than 3MZBN*****277130 (produced before Dec. 19, 2018)

2013-2017 CX-5 vehicles with VINs lower than JM3KE*****921726 (produced before Dec. 21, 2016)

2018 CX-5 vehicles with VINs lower than JM3KF*****443351 (produced before July 2, 2018)

DESCRIPTION

Some vehicles may experience a lack of power and the check engine light on with DTC P61B:00 stored in the PCM memory when driving in high temperatures at high elevations.

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- DTC P061B:00 - [PCM] Internal control module torque calculation performance problem

This concern may be caused by improper PCM control logic. The engine torque calculation error may increase in high temperatures at high elevations. To eliminate this concern, the PCM software has been modified.

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

REPAIR PROCEDURE

PCM REPROGRAMMING:

1. Verify the customer concern.
2. Reboot the IDS to clear memory before reprogramming.
3. Using IDS **113.03** 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 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.
4. After performing the PCM reprogramming procedure, clear DTCs.
 5. After clearing DTCs, start the engine and confirm that no warning lights stay on.
 6. Record customer presets in the infotainment system.
 7. Disconnect the negative battery cable and wait for 30 seconds or more to reset the fuel control learning data.
 8. Re-connect the negative battery cable.
 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

NOTE:

- If the calibration file is with the suffix in the table or later, the PCM already has the modified calibration.
- Older File Name column shows the first four letters of the older file name only if some of the older file names are different from the new file name.

USA AND CANADA:

2017-2018 Mazda3 (Mexico built):

Engine	Emission	Transmission	File Name	Note
2.0L	Fed	M/T	PSAD-188K2-D	Mitsubishi
		A/T	PSAE-188K2-D	Mitsubishi

2013-2015 CX-5:

Engine	Emission	Transmission	Drive	File Name	Older File Name	Note
2.0L	Cal	M/T	2WD	PUZ2-188K2-E	PE01	Mitsubishi
				PUZ4-188K2-E	PE1G	Denso
	Fed	M/T	2WD	PUZ3-188K2-E	PE1C	Mitsubishi
				PUZ5-188K2-E	PE1L	Denso

2013 CX-5 (without kickdown switch):

Engine	Emission	Transmission	Drive	File Name	Note
2.0L	Cal	A/T	2WD	PE02-188K2-T	Mitsubishi
			4WD	PE1H-188K2-S	Denso
				PE1B-188K2-T	Mitsubishi
				PE1K-188K2-S	Denso
	Fed	A/T	2WD	PE1D-188K2-T	Mitsubishi
				PE1M-188K2-S	Denso
			4WD	PE1F-188K2-T	Mitsubishi
				PE1P-188K2-S	Denso

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2013- 2015 CX-5 (KE) (with kickdown switch)

Engine	Emission	Transmission	Drive	File Name	Note
2.0L	Cal	A/T	2WD	PUYR-188K2-E	Mitsubishi
				PUYX-188K2-E	Denso
			4WD	PUYS-188K2-E	Mitsubishi
				PUYZ-188K2-E	Denso
	Fed	A/T	2WD	PUYT-188K2-E	Mitsubishi
				PUZ0-188K2-E	Denso
			4WD	PUYW-188K2-E	Mitsubishi
				PUZ1-188K2-E	Denso
2.5L	Cal	A/T	2WD	PYXH-188K2-C	Mitsubishi
				PYXM-188K2-C	Denso
			4WD	PYXJ-188K2-C	Mitsubishi
				PYXN-188K2-C	Denso
	Fed	A/T	2WD	PYXK-188K2-C	Mitsubishi
				PYXP-188K2-C	Denso
			4WD	PYXL-188K2-C	Mitsubishi
				PYXR-188K2-C	Denso

2016 CX-5:

Engine	Emission	Transmission	Drive	File Name	Note
2.0L	Cal	M/T	2WD	PS32-188K2-E	Mitsubishi
				A/T	2WD
			4WD		
				PS34-188K2-E	Mitsubishi
				PS41-188K2-E	Denso
		Fed	M/T	2WD	PS35-188K2-E

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				PS42-188K2-E	Denso
		A/T	2WD	PS36-188K2-E	Mitsubishi
				PS43-188K2-E	Denso
			4WD	PS37-188K2-E	Mitsubishi
				PS44-188K2-E	Denso
2.5L	Cal	A/T	2WD	PYAJ-188K2-F	Mitsubishi
				PYAR-188K2-F	Denso
			4WD	PYAK-188K2-E	Mitsubishi
				PYAS-188K2-E	Denso
	Fed	A/T	2WD	PYAL-188K2-E	Mitsubishi
				PYAT-188K2-E	Denso
			4WD	PYAM-188K2-F	Mitsubishi
				PYAV-188K2-F	Denso

2017-2018 CX-5:

Engine	Emission	Transmission	Drive	File Name	Note
2.0L	Cal / Fed	M/T	2WD	PSJB-188K2-F	Mitsubishi
				PSJC-188K2-F	Denso
2.5L	Cal	A/T	2WD	PYMX-188K2-G	Mitsubishi
				PYNA-188K2-G	Denso
			4WD	PYNB-188K2-G	Mitsubishi
				PYNC-188K2-G	Denso
	Fed	A/T	2WD	PYND-188K2-G	Mitsubishi
				PYNE-188K2-G	Denso
			4WD	PYNF-188K2-G	Mitsubishi
				PYNG-188K2-G	Denso

NOTE: 2018 CX-5 2.5L is only applicable for Canada.

MEXICO:**2014-2016 Mazda3 (Japan built):**

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Engine	Transmission	File Name	Note
2.5L	M/T	PYBJ-188K2-D	Mitsubishi
		PYBK-188K2-D	Denso
	A/T	PY8E-188K2-E	Mitsubishi
		PY8F-188K2-E	Denso

2014-2016 Mazda3 (Mexico built):

Engine	Transmission	File Name	Note
2.0L	M/T	PEGN-188K2-D	Mitsubishi
		PEGP-188K2-D	Denso
	A/T	PEGR-188K2-D	Mitsubishi
		PEGS-188K2-D	Denso

2017-2018 Mazda3 (Japan built):

Engine	Transmission	File Name	Note
2.5L	M/T	PYKH-188K2-D	Mitsubishi
		PYKK-188K2-D	Denso
	A/T	PYKJ-188K2-D	Mitsubishi
		PYKL-188K2-D	Denso

2017-2018 Mazda3 (Mexico built):

Engine	Transmission	File Name	Note
2.0L	M/T	PSAF-188K2-C	Mitsubishi
	A/T	PSAG-188K2-C	Mitsubishi
2.5L	M/T	PX54-188K2-A	Mitsubishi
	A/T	PX55-188K2-A	Mitsubishi

2013 CX-5 (without kickdown switch):

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Engine	Transmission	Drive	File Name	Note
2.0L	A/T	2WD	PE2P-188K2-M	Mitsubishi
			PE2T-188K2-L	Denso
		4WD	PE2R-188K2-M	Mitsubishi
			PE2V-188K2-L	Denso

2013-2015 CX-5 (with kickdown switch):

Engine	Transmission	Drive	File Name	Note
2.0L	A/T	2WD	PEBG-188K2-G	Mitsubishi
			PECJ-188K2-G	Denso
2.5L	A/T	2WD	PY5L-188K2-G	Mitsubishi
			PY5N-188K2-G	Denso
		4WD	PY5M-188K2-G	Mitsubishi
			PY5P-188K2-G	Denso

2016-2017 CX-5:

Engine	Transmission	Drive	File Name	Note
2.0L	A/T	2WD	PS38-188K2-E	Mitsubishi
			PS45-188K2-E	Denso
2.5L	A/T	2WD	PYAN-188K2-D	Mitsubishi
			PYAW-188K2-D	Denso
		4WD	PYAP-188K2-D	Mitsubishi
			PYAX-188K2-D	Denso

2018 CX-5:

Engine	Transmission	Drive	File Name	Note
2.0L	A/T	2WD	PSJD-188K2-E	Mitsubishi
			PSJE-188K2-E	Denso

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2.5L	A/T	2WD	PYNH-188K2-E	Mitsubishi
			PYNJ-188K2-E	Denso
		4WD	PYNK-188K2-E	Mitsubishi
			PYNL-188K2-E	Denso

NOTE: It is not necessary to order a PCM part for this repair procedure.

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- 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:	XXP7XXFX / 0.3 Hrs.

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