

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

CHECK ENGINE LIGHT ON WITH DTC P061B:00

Bulletin No.: 01-008/22

Last Issued : 08/03/2022

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
01-008/21	04/02/21
01-015/19	08/12/21
01-015/18	08/22/2018 and 10/23/18

APPLICABLE MODEL(S)/VINS**US Spec.:**

2018-2019 Mazda6 vehicles (with coolant control valve) with VINs lower than JM1GL*****505645 (produced before April 22, 2019)

NOTE: Mazda6 vehicles with SKYACTIV-G 2.5T are not applicable to this bulletin.

2018-2019 CX-5 vehicles (with coolant control valve) with VINs lower than JM3KF*****623863 (produced before April 22, 2019)

NOTE: CX-5 vehicles with SKYACTIV-G 2.5T are not applicable to this bulletin.

2019 CX-3 vehicles (with coolant control valve) with VINs lower than JM1DK*****460772 (produced before September 10, 2019)

2019 MX-5 vehicles (without coolant control valve) with VINs lower than JM1ND*****310734 (produced before August 29, 2019)

2019 MX-5 (30th Anniversary) vehicles (without coolant control valve) with VINs lower than JM1ND*****400683 (produced before August 28, 2019)

Page 1 of 5

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Mexico Spec.:

2019-2020 Mazda6 vehicles (with coolant control valve) with VINs lower than JM1GL*****508645 (produced before June 27, 2019)

NOTE: Mazda6 vehicles with SKYACTIV-G 2.5T are not applicable to this bulletin.

2018-2019 CX-5 vehicles (with coolant control valve) with VINs lower than JM3KF*****678694 (produced before July 30, 2019)

NOTE: CX-5 vehicles with SKYACTIV-G 2.5T are not applicable to this bulletin.

2019-2020 CX-3 vehicles (with coolant control valve) with VINs lower than JM1DK*****474739 (produced before March 21, 2020)

2019 MX-5 vehicles (without coolant control valve) with VINs lower than JM1ND*****311825 (produced before October 31, 2019)

2019 MX-5 (30th Anniversary) vehicles (without coolant control valve) with VINs lower than JM1ND*****400840 (produced before October 7, 2019)

DESCRIPTION

Some vehicles may experience a lack of power and the check engine light on with DTC P061B:00 stored in PCM memory under one of the following conditions (A or B).

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

Condition	Condition Description
A	When cranking is interrupted (likely occurs when the brake pedal is released during cranking)
B	When accelerating from 1300-1600 rpm with wide open throttle

Due to an improper control logic of the PCM, the engine torque calculation error detection is too sensitive. To eliminate this concern, the PCM software has been modified.

Explain to the customer:

This is not an actual failure of the engine, but a false detection of the failure caused by the improper engine control software. With the false failure, the engine control computer turned on the Fail Safe mode, resulting in reduced engine rpm. To avoid the false detection in the future, the engine control software has been updated.

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

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Were any MAF sensor and/or IAT sensor DTC(s) stored?
 - **Yes:** This TSB does not apply. Diagnose DTC(s) according to the instructions on MGSS online.
 - **No:** Proceed to Step 3.
3. Check the FFD. Was DTC P061B:00 stored during engine cranking or when accelerating from 1300-1600 rpm with wide open throttle?
 - **Yes:** Proceed to Step 4.
 - **No:** This TSB does not apply. Diagnose DTC according to the instructions on MGSS online.
4. Refer to the table below and determine if PCM reprogramming is applicable to the subject vehicle.

Condition	Condition Description	Model	Reprogram PCM
A	When cranking is interrupted (likely occurs when the brake pedal is released during cranking)	CX-3, MX-5, CX-5, Mazda6	Yes
B	When accelerating from 1300-1600 rpm with wide open throttle	CX-3 , MX-5, CX-5, Mazda6	Yes

5. If the subject vehicle is applicable to this bulletin, reprogram the PCM with Mazda Modular Diagnostic System (M-MDS) using IDS software according to IDS PCM REPROGRAMMING PROCEDURE.

CALIBRATION**Mazda6 (US and Mexico Spec.):**

MY	Engine	Transmission	File Name	Note
US 2018	2.5L	M/T	PYH1-188K2-J	---
		A/T	PYH3-188K2-L	with Cylinder Deactivation
US 2019	2.5L	A/T	PXD8-188K2-C	with Cylinder Deactivation
Mexico 2019	2.5L	A/T	PYH5-188K2-G	---
Mexico 2020			PXD9-188K2-B	---

NOTE: Mazda6 vehicles with SKYACTIV-G 2.5T are not applicable.

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

2018 CX-5 (US and Mexico Spec.):

Spec.	Engine	Transmission	Drive	File Name	Note
US	2.5L (w/o Cylinder Deactivation)	A/T	2WD	PYH9-188K2-F	Mitsubishi
				PYJ1-188K2-E	Denso
			4WD	PYJ2-188K2-F	Mitsubishi
				PYJ3-188K2-E	Denso
US	2.5L (with Cylinder Deactivation)	A/T	2WD	PYFA-188K2-J	Mitsubishi
				PYFB-188K2-J	Denso
			4WD	PYFC-188K2-J	Mitsubishi
				PYFD-188K2-J	Denso
Mexico	2.0L	AT	2WD	PEK8-188K2-C	Mitsubishi
				PEK9-188K2-C	Denso
Mexico	2.5L (w/o Cylinder Deactivation)	AT	2WD	PYJ4-188K2-E	Mitsubishi
				PYJ5-188K2-E	Denso

2019 CX-5 (US and Mexico Spec.):

Spec.	Engine	Transmission	Drive	File Name	Note
US	2.5L (w/o Cylinder Deactivation)	A/T	2WD	PX46-188K2-C	Mitsubishi
				PX47-188K2-B	Denso
			4WD	PX48-188K2-C	Mitsubishi
				PX49-188K2-B	Denso
US	2.5L (with Cylinder Deactivation)	A/T	2WD	PX42-188K2-C	Mitsubishi
				PX43-188K2-C	Denso
			4WD	PX44-188K2-D	Mitsubishi
				PX45-188K2-D	Denso
Mexico	2.0L	AT	2WD	PAM2-188K2-B	Mitsubishi
				PAM3-188K2-B	Denso
Mexico	2.5L (w/o Cylinder Deactivation)	AT	4WD	PX50-188K2-B	Mitsubishi
				PX51-188K2-B	Denso

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

CX-3 (US and Mexico Spec.):

Spec.	Emission	Transmission	Drive	File Name
US	Cal	M/T	2WD	PA01-188K2-F
		A/T	2WD	PA02-188K2-F
			4WD	PA03-188K2-F
	Fed	M/T	2WD	PAD7-188K2-F
		A/T	2WD	PAD8-188K2-F
			4WD	PAD9-188K2-F
Mexico	-	A/T	2WD	PA04-188K2-D

MX-5 (US and Mexico Spec.):

Spec.	Body	Transmission	File Name
US	Convertible Top	M/T	PAD2-188K2-E
		A/T	PAC6-188K2-E
	Retractable Fastback	M/T	PAD4-188K2-D
		A/T	PAD5-188K2-E
Mexico	Convertible Top	M/T	PAD3-188K2-C
	Retractable Fastback	A/T	PAC7-188K2-C

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) or **Calif. Emission Warranty (Short 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:	XXP7YXFX / 0.3 Hrs.

NOTE: CX-5 and Mazda6 vehicles with SKYACTIV-G 2.5T are not applicable to this TSB.

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.