# Technical Service Bulletin

Mazda North American Operations Irvine, CA 92618-2922



## Subject:

CHECK ENGINE LIGHT ON WITH DTC P0524 OR P055F

Bulletin No.: 01-004/21

Last Issued : 04/30/2021

# **BULLETIN NOTE**

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

Previous TSBs:	Date(s) Issued:
01-004/21	02/05/21

# APPLICABLE MODEL(S)/VINS

2018-2020 CX-5 2.5L (with cylinder deactivation) vehicles with VINs lower than JM3KF\*\*\*\*\*869654 (produced before Aug. 24, 2020)

2021 CX-5 2.5L (with cylinder deactivation and 8" center display) vehicles with VINs lower than JM3KF\*\*\*\*\*120983 (produced before Dec. 14, 2020)

2021 CX-5 2.5L (with cylinder deactivation and 10.5" center display) vehicles with VINs lower than JM3KF\*\*\*\*\*358113 (produced before Dec. 14, 2020)

2020-2021 CX-30 2.5L (with cylinder deactivation) vehicles with VINs lower than 3MVDM\*\*\*\*\*239819 (produced before Dec. 23, 2020)

2019-2020 Mazda3 2.5L (Japan built, with cylinder deactivation) vehicles with VINs lower than JM1BP\*\*\*\*\*176405 (produced before Apr. 2, 2020)

2019-2021 Mazda3 2.5L (Mexico built, with cylinder deactivation) vehicles with VINs lower than 3MZBP\*\*\*\*\*210133 (produced before Dec. 23, 2020)

2018-2021 Mazda6 2.5L (with cylinder deactivation) vehicles with VINs lower than JM1GL\*\*\*\*\*610985 (produced before Feb. 24, 2021)

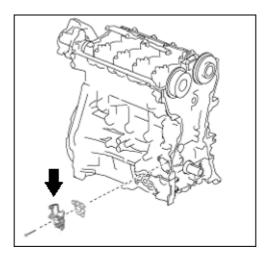
# DESCRIPTION

Some vehicles may have the check engine light on with DTC P0524:00 or P055F:00 stored in memory. Contamination in the engine oil may cause the engine oil solenoid valve to become stuck, resulting in improper operation of the oil pump and improper oil pressure.

- DTC P0524:00 (Engine oil pressure too low)
- DTC P055F:00 (Engine oil pressure malfunction)

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The control software of the PCM has been modified to eliminate this concern. In addition, the production process has been modified to reduce contamination in the engine oil solenoid valve, oil pump, spacer and oil filter.

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

## **REPAIR PROCEDURE**

1. Verify the customer concern.

2. Replace the engine oil solenoid valve with a new one according to MGSS online:

- CX-5: (ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)])
- CX-30: (ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)])
- Mazda3: (ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)])
- Mazda6: (ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)])
- 3. Replace the engine oil and engine oil filter.
- 4. Reprogram the PCM / ECU with Mazda Modular Diagnostic System (M-MDS) according to:
  - CX-5 / Mazda6: IDS PCM REPROGRAMMING PROCEDURE
  - CX-30 / Mazda3: MDARS/ECU REPROGRAMMING PROCEDURE

5. Verify the repair.

## CALIBRATION

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CX-5:

Model	Drive	File Name	Note
	204/12	PYFA-188K2-L	Mitsubishi
	2WD	PYFB-188K2-L	Denso
2018 <mark>CX-5</mark>	4WD	PYFC-188K2-L	Mitsubishi
	400	PYFD-188K2-L	Denso
2019 <mark>CX-5</mark>	2WD	PX42-188K2-E	Mitsubishi
	2000	PX43-188K2-E	Denso
	4WD -	PX44-188K2-F	Mitsubishi
	400	PX45-188K2-F	Denso
2020-2021 <mark>CX-5</mark>	2WD	PX2E-188K2-E	Mitsubishi
	2000	PX2F-188K2-E	Denso
	4WD	PX2G-188K2-E	Mitsubishi
	400	PX2H-188K2-E	Denso

### MAZDA3:

Model	Factory	Transmission	Drive	File Name	Note		
				PX05-188K2-P	Mitsubishi		
		A (77	2WD	PX06-188K2-P	Denso		
2010 2020 Manda2	Jaman Duilt	A/T		PX07-188K2-S	Mitsubishi		
2019-2020 Mazda3	Japan Bulit	Japan Built			4WD	PX08-188K2-S	Denso
					PX58-188K2-N	Mitsubishi	
	M/T		2WD	PX59-188K2-N	Denso		
				PX13-188K2-J	Mitsubishi		
2019-2021 Mazda3	March - Dadk	A/T	2WD	PX14-188K2-J	Denso		
	Mexico Built			PX15-188K2-J	Mitsubishi		
	400		4WD	PX16-188K2-J	Denso		

## CX-30:

Model	Transmission	Drive	File Name	Note	
		2WD	PXH7-188K2-G	Mitsubishi	
2020-2021 CX-30	A/T -	200	PXH8-188K2-G	Denso	
2020-2021 CA-30		AU		PXJ9-188K2-G	Mitsubishi
		4WD	PXK1-188K2-G	Denso	

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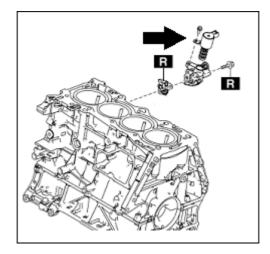
MAZDA6:

Model	File Name
2018 Mazda6	PYH3-188K2-M
2019-2020 Mazda6	PXD8-188K2-D
2021 Mazda6	PX4F-188K2-C

# PARTS INFORMATION

Parts Number	Description	Qty.	Notes
PYFA-14-440C	VALVE,OIL CONTROL	1	CX-5, Mazda6 and Mazda3 (Japan built)
P5PW-14-440	VALVE,OIL CONTROL	1	CX-30 and Mazda3 (Mexico built)
PY8W-14-365	GASKET	1	[R]
PY8W-14-275	BOLT	3	[R]
1WPE-14-302	CARTRIDGE,OIL FILTER	1	

[R]: Replacement parts



## 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 New Vehicle Fed. Emission Warranty, Calif. Emission Warranty (short term).

• Additional diagnostic time cannot be claimed for this repair.

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Warranty Type	A
Symptom Code	6X
Damage Code	9W
Part Number Main Cause	5555-RP-PCM (CX-5 / Mazda6) 5555-18-881 (CX-30 / Mazda3)
Quantity	0
Operation Number / Labor Hours:	XXT19XFX / 0.8 Hrs.

**NOTE:** Claim the parts and engine oil as related parts.

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