

Subject: CHECK ENGINE LIGHT ON WITH P0524 AND NO ABNORMAL ENGINE NOISE	Service Alert No.: SA-048/26
	Last Issued : 08/05/2026

BULLETIN NOTES

APPLICABLE MODEL(S)/VINS

2023-2025 CX-30 (produced before 10/20/2025)
 2023-2025 CX-50 (produced before 10/20/2025)
 2023-2025 Mazda 3 (produced before 10/20/2025)
 2023-2025 CX-5 (produced before 10/20/2025)

DESCRIPTION

Some vehicle may exhibit the CHECK ENGINE light on with DTC P0524 (Engine oil pressure control system: Oil pressure decrease) and no abnormal engine noise. This may be caused by a malfunction of the oil pressure control valve (located at the rear of the engine block near the oil filter) due to machining contamination inside the electromagnet sleeve and the solenoid plunger remaining during manufacturing. This contamination is affecting the OCV operation when oil pressure control is requested by the PCM.

REPAIR PROCEDURE

Perform the WSM inspection for P0524.

- Verify the oil level is correct and the proper oil weight is used.
- Remove the OCV and inspect for external contamination in the oil flow-switching valve section of the OCV (in the red box).



Is the switching valve contaminated, obstructed, or damaged?

- **YES:** If the switching valve is contaminated, obstructed, or damaged (due to external contamination or

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.

damage), this Service Alert does not apply. Find the source and repair as needed.

- **NO:** Replace the oil pressure OCV on the back of the engine (due to internal contamination) per the WSM, then verify the oil pressure returns to normal following WSM OIL PRESSURE INSPECTION.

2023-2025 CX-30	ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION
2023-2025 CX-50	ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION
2023-2025 Mazda 3	ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION
2023-2025 CX-5	ENGINE OIL SOLENOID VALVE REMOVAL/INSTALLATION

PARTS INFORMATION

Parts Number	Description	Qty.
P5PW14440	Valve Oil Control	1
PY8W14365	Gasket	1
PY8W14275	OCV Spacer mounting bolts	3

WARRANTY INFORMATION

NOTE: This repair is covered under Mazda's Powertrain Warranty and CA Long Term Emissions for vehicles registered in CA Emissions states (except CX-50).

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Part Number Main Cause	P5PW14440
Sub part number	PY8W14275, PY8W14365
Quantity	1
Operation Number / Labor Hours:	B0226XRX / 0.6 Hrs.

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.