

REMOTE DIAGNOSTICS REPAIR INSTRUCTIONS



DTC: P0524-00

Bulletin: RD24-038 Date: December 17, 2024

Description: Engine Oil Pressure Low

Applies to: US24 Emissions VN (4) B1

For Spanish click here: [ESPAÑOL](#) For French click here: [FRANÇAIS](#).

General Information

These repair instructions are intended to address the following fault(s):

DTC	Description	Possible Cause	Possible (Observable) Symptoms
P0524-00	Engine Oil Pressure Too Low	• Low engine oil level (EOL) • Contaminated oil, slow flowing or too thin • Reduction valve • Worn oil pump • Engine oil pressure (EOP) sensor • Oil leakage	• Low Power • Reduced engine output and engine switch-off if the vehicle speed falls below 3 km/h (2 mph) when engine protection is chosen in the data set

Required Parts

Part Number	Description	Quantity
22899626	Oil Pressure Sensor	1

Additional Resources

These repairs are the most likely fix for the identified fault, if this does not fix the issue, Tech Tool will need to be used for more detailed diagnostics. If filing a warranty claim, please include the ASIST case number.

Labor Code	
3864-03-02-02	0.4
Causal Part	22899626

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Repair Instructions

Oil Pressure Sensor, Replacement



Illustrations may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.



Colors used in illustrations are for highlighting purposes only and do not correspond to the actual colors of the vehicle.



All threaded fasteners that do not have a tightening torque specification in the information are tightened to a standard torque. Standard torques are available in the following specification. ➡ Standard Tightening Torques



WARNING

Risk of burn injuries.

- The engine oil may be hot. The oiling system is under pressure and can reach a temperature sufficient to cause burns. Allow the oil temperature to reach a safe level before starting the work.



CAUTION

Service Information Advisory.

- If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.
- You must read and understand the precautions and guidelines in Service

Information, Function Group 2, "General Safety Practices, Engine" before performing this procedure.

Bulletin: RD24-038 **Date:** October 1, 2024

A diagram showing a wheel on a surface. Two arrows point outwards from the contact point, representing the reaction forces.

This diagram shows an exploded view of a mechanical assembly. The main components are labeled with numbers 1 through 6. Callout 1 points to a small bracket-like part. Callout 2 points to a bolt. Callout 3 points to a nut. Callout 4 points to a large, dark grey, rectangular plate with multiple mounting points. Callout 5 points to a small pin or clip. Callout 6 points to a large, cylindrical component, likely a motor or actuator. Two inset images provide detailed views of specific assembly points: the top-left inset shows the assembly of a bracket (1) onto a plate (4) using a bolt (2) and nut (3); the top-right inset shows a close-up of a bracket (1) being secured to a plate (4) with a pin (5).

1	Cover, screw	24 ±4 Nm (18 ±3 lb _r ·ft)
2	Thermostat, control valve, screw	10 ±1.5 Nm (7 ±1 lb _r ·ft)
3	Oil pressure sensor	25 ±3 Nm (18 ±2 lb _r ·ft)
4	Oil filter housing, plug	50 ±5 Nm (37 ±4 lb _r ·ft)
5	Piston cooling jet, control valve, screw	10 ±1.5 Nm (7 ±1 lb _r ·ft)
6	Oil filter	1. Rotate the filter
		2.