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Dorman 904-7512

Dorman 904-7512 Engine Oil Pressure Sensor User Manual

Model: 904-7512 | Brand: Dorman

1. PRODUCT OVERVIEW

The Dorman 904-7512 Engine Oil Pressure Sensor is a direct replacement component designed to accurately monitor engine oil pressure in specified vehicles. This sensor is engineered to restore proper function when an original sensor has failed due to heat exposure or internal damage, ensuring the vehicle's engine management system receives correct oil pressure readings.

It is manufactured to strict specifications to provide reliable performance and is backed by Dorman's extensive automotive experience.

What's in the Box:

- 1 Engine Oil Pressure Sensor (Dorman 904-7512)

Key Features:

- **Direct Replacement:** Designed to match the fit and function of the original equipment sensor.
- **Accurate Monitoring:** Engineered to provide precise oil pressure readings to the vehicle's engine control unit.
- **Durable Construction:** Manufactured with quality materials for long-lasting reliability.
- **Vehicle Specific Fitment:** Compatible with select International truck models (refer to specifications for details).

2. PRODUCT IMAGES



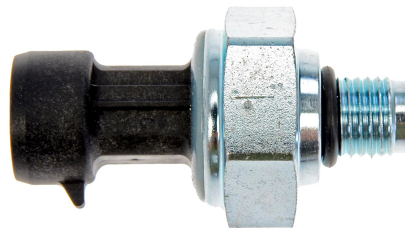
Main view of the Dorman 904-7512 Engine Oil Pressure Sensor, showing the black electrical connector and the metallic threaded body.



Top-down view of the sensor's electrical connector, showing the internal pins for connection to the vehicle's wiring harness.



View of the sensor's threaded end, which screws into the engine block or oil gallery, showing the pressure sensing element.



Side profile of the sensor, illustrating its overall dimensions and the transition from the electrical connector to the threaded body.

3. SETUP AND INSTALLATION

Installation of the Dorman 904-7512 Engine Oil Pressure Sensor typically involves replacing an existing faulty sensor. Due to the critical nature of engine oil pressure monitoring and the potential for engine damage if installed incorrectly, **professional installation by a qualified mechanic is highly recommended.**

General Installation Guidelines (for reference only):

1. **Safety First:** Ensure the vehicle's engine is cool and the battery is disconnected before beginning any work. Use appropriate personal protective equipment.

2. **Locate Sensor:** Identify the location of the existing engine oil pressure sensor. This can vary by vehicle model and engine configuration. Consult your vehicle's service manual for the exact location.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Use an appropriate wrench or sensor socket to unscrew and remove the old sensor. Be prepared for a small amount of oil leakage.
5. **Prepare New Sensor:** Inspect the new Dorman sensor for any damage. Ensure the O-ring or sealing washer is properly seated on the new sensor's threads.
6. **Install New Sensor:** Carefully thread the new sensor into the engine block or oil gallery by hand to prevent cross-threading. Tighten to the vehicle manufacturer's specified torque using a torque wrench. *Do not overtighten.*
7. **Reconnect Wiring:** Reconnect the electrical connector to the new sensor, ensuring it clicks securely into place.
8. **Test:** Reconnect the battery, start the engine, and check for any oil leaks around the new sensor. Verify that the oil pressure warning light (if applicable) turns off and that the oil pressure gauge (if equipped) shows a normal reading.

Vehicle Compatibility: This sensor is compatible with specific International models. Always confirm fitment using your vehicle's make, model, and trim level before installation. Refer to the product description or consult a Dorman fitment guide for a comprehensive list of compatible vehicles.

4. OPERATION

The Dorman 904-7512 Engine Oil Pressure Sensor operates by converting the mechanical oil pressure within the engine's lubrication system into an electrical signal. This signal is then sent to the vehicle's Engine Control Unit (ECU) or directly to the oil pressure gauge/warning light on the dashboard.

- **Monitoring Function:** The sensor continuously measures the oil pressure.
- **Signal Transmission:** It sends real-time data to the vehicle's computer.
- **Warning System:** If oil pressure drops below a safe threshold, the sensor triggers the oil pressure warning light on the dashboard, alerting the driver to a potential issue.
- **Gauge Display:** In vehicles equipped with an oil pressure gauge, the sensor provides the input for the gauge to display the current oil pressure.

Proper operation of this sensor is crucial for protecting the engine from damage due to insufficient lubrication.

5. MAINTENANCE

Engine oil pressure sensors are generally maintenance-free components. However, regular vehicle maintenance practices can help ensure their longevity and proper function:

- **Regular Oil Changes:** Adhere to your vehicle manufacturer's recommended oil change intervals using the correct type and viscosity of engine oil. Clean oil helps prevent sensor clogging and premature wear.
- **Check for Leaks:** Periodically inspect the area around the sensor for any signs of oil leaks. Address any leaks promptly to prevent damage to the sensor or surrounding components.
- **Wiring Inspection:** During routine inspections, check the sensor's electrical connector and wiring for any signs of corrosion, fraying, or damage. Ensure the connection is secure.
- **Monitor Dashboard Lights:** Pay attention to your vehicle's dashboard warning lights. If the oil pressure warning light illuminates, or if the oil pressure gauge shows abnormal readings, have the system diagnosed by a qualified technician immediately.

While the sensor itself does not require routine cleaning or adjustment, maintaining a healthy engine and lubrication system is key to its reliable performance.

6. TROUBLESHOOTING

If you experience issues related to engine oil pressure readings or warning lights after installing or while using the Dorman 904-7512 sensor, consider the following common troubleshooting steps. **Always consult a professional mechanic for diagnosis and repair if you are unsure.**

Symptom	Possible Cause	Solution
Oil pressure warning light remains on after engine start.	<ul style="list-style-type: none">Low engine oil level.Faulty wiring or connector.Incorrectly installed sensor.Actual low oil pressure (serious engine issue).Faulty new sensor (rare).	<ul style="list-style-type: none">Check engine oil level and add if necessary.Inspect sensor wiring and connector for damage or loose connections.Verify sensor is tightened to specification and not cross-threaded.Have engine oil pressure physically checked with a mechanical gauge.If all else fails, consider sensor replacement.
Oil pressure gauge reads erratically or stuck at zero/max.	<ul style="list-style-type: none">Faulty sensor.Wiring issue to the gauge or ECU.Faulty oil pressure gauge itself.	<ul style="list-style-type: none">Inspect sensor and wiring.Test sensor output with a multimeter (if knowledgeable).Consult a professional for diagnostic testing of the sensor, wiring, and gauge.
Oil leak around the sensor.	<ul style="list-style-type: none">Improperly tightened sensor.Damaged O-ring or sealing washer.Cross-threaded installation.	<ul style="list-style-type: none">Ensure sensor is tightened to correct torque.Remove sensor, inspect O-ring/washer for damage, replace if necessary.If cross-threaded, professional repair of the engine block threads may be required.

Important: A persistent oil pressure warning light or consistently low oil pressure readings can indicate severe engine problems. Do not continue to operate the vehicle under these conditions without professional diagnosis.

7. SPECIFICATIONS

Attribute	Detail
Model Number	904-7512
Brand	Dorman
Part Type	Engine Oil Pressure Sensor
Operation Mode	Automatic
Contact Type	Normally Open

Attribute	Detail
Connector Type	Screw Terminals
Terminal	Screw
Item Dimensions (L x W x H)	4.06 x 2.87 x 2.36 inches
Circuit Type	1-way
Mounting Type	Panel Mount
Actuator Type	Plunger
Contact Material	Copper
International Protection Rating	IP00
Number of Positions	1
Control Method	Touch
Color	Black
Unit Count	1 Count
Number of Items	1
GTIN (UPC)	00885484436817
Manufacturer	Dorman Products
Item Weight	0.32 ounces
Exterior	Machined
OEM Part Numbers	577.55623; ISK935; 1834538C91; 1839412C91; 1839415C91; 1872556C91
First Available	July 13, 2016

8. WARRANTY AND SUPPORT

Dorman Products are designed and manufactured to high-quality standards. For specific warranty information regarding the Dorman 904-7512 Engine Oil Pressure Sensor, please refer to the warranty documentation included with your purchase or visit the official Dorman website.

Dorman provides technical support and resources to assist with product inquiries and installation. For further assistance, you can visit the [Dorman Store on Amazon](#) or their official corporate website.

Dorman has over a century of automotive experience, providing reliable replacement products engineered to save time and money.



