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› Standard Motor Products PS60 Oil Pressure Sender User Manual

Standard Motor Products PS60

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Model: PS60

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Standard Motor Products PS60 Oil Pressure Sender. This device is designed to accurately measure and transmit oil pressure readings within an automotive system. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the vehicle's engine is off and cool before attempting installation or maintenance.
- Disconnect the vehicle's battery to prevent electrical shorts.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Refer to the vehicle's service manual for specific oil pressure sender location and removal procedures.
- Handle automotive fluids, such as engine oil, with care and dispose of them properly.
- If you are unsure about any step, consult a qualified automotive technician.

3. PRODUCT OVERVIEW

The Standard Motor Products PS60 is an oil pressure sender, also known as an oil pressure sensor. It is a critical component in your vehicle's engine management system, providing real-time oil pressure data to the vehicle's gauge or engine control unit (ECU). This sender features a durable construction designed for reliable performance in automotive environments.

3.1 Components

- PS60 Oil Pressure Sender Unit

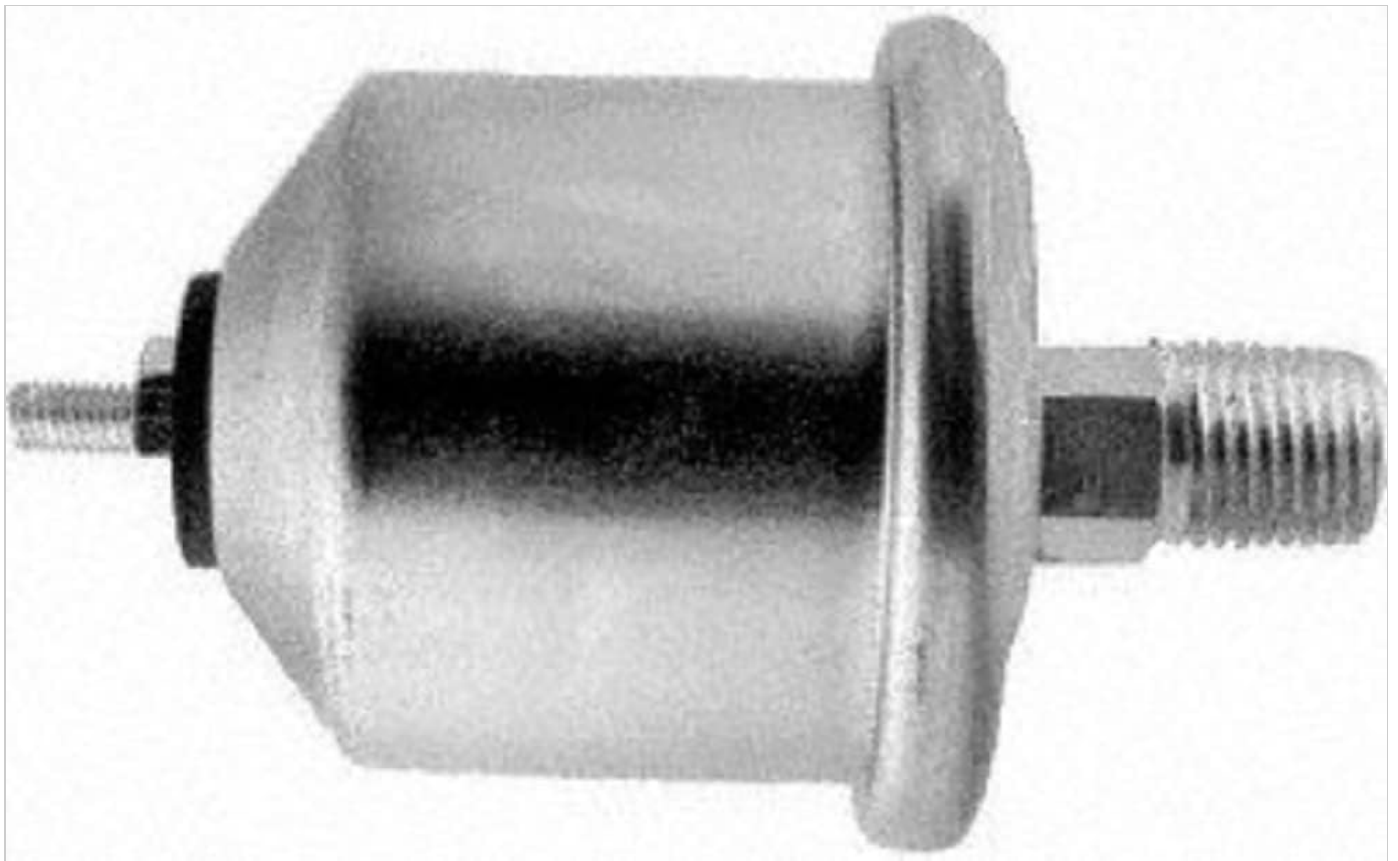


Figure 3.1: Standard Motor Products PS60 Oil Pressure Sender. This image shows the complete sender unit, including the main body and the threaded connection point.



Figure 3.2: Close-up view of the threaded end of the PS60 Oil Pressure Sender. This part is designed to screw into the engine block or oil

4. SETUP AND INSTALLATION

The installation of the PS60 Oil Pressure Sender typically involves replacing an existing faulty unit. Follow these general steps:

1. Preparation:

- Park the vehicle on a level surface and engage the parking brake.
- Allow the engine to cool completely.
- Disconnect the negative terminal of the vehicle's battery.
- Locate the existing oil pressure sender. Its location varies by vehicle but is often near the oil filter or on the engine block.

2. Removal of Old Sender:

- Carefully disconnect any electrical connectors from the old sender.
- Using an appropriate wrench, loosen and remove the old oil pressure sender. Be prepared for a small amount of oil to leak out.
- Clean the mounting area thoroughly to remove any old sealant or debris.

3. Installation of New Sender:

- Apply a small amount of thread sealant (if recommended by your vehicle's manufacturer or the sender's instructions) to the threads of the new PS60 sender.
- Carefully thread the new PS60 sender into the mounting hole by hand to prevent cross-threading.
- Tighten the sender with a wrench to the manufacturer's specified torque. Do not overtighten.
- Reconnect the electrical connector to the new sender, ensuring a secure connection.

4. Post-Installation:

- Reconnect the negative terminal of the vehicle's battery.
- Start the engine and check for any oil leaks around the new sender.
- Verify that the oil pressure gauge or warning light functions correctly.

Note: Always consult your vehicle's specific service manual for detailed instructions and torque specifications.

5. OPERATING PRINCIPLES

The Standard Motor Products PS60 Oil Pressure Sender operates by converting hydraulic oil pressure into an electrical signal. This signal is then sent to the vehicle's instrument cluster or engine control unit (ECU) to display the oil pressure reading or activate a warning light if pressure drops below a safe threshold. As a passive sensor, it requires no direct user operation after installation; its function is continuous as long as the engine is running.

6. MAINTENANCE

The PS60 Oil Pressure Sender is designed to be maintenance-free. However, regular vehicle maintenance practices can help ensure its longevity and accurate operation:

- **Regular Oil Changes:** Ensure engine oil is changed according to the vehicle manufacturer's recommendations. Clean oil helps prevent sensor clogging.
- **Check for Leaks:** Periodically inspect the area around the oil pressure sender for any signs of oil leaks. Address any leaks promptly.

- **Wiring Inspection:** During routine vehicle inspections, check the electrical connector and wiring leading to the sender for any signs of damage, corrosion, or loose connections.

7. TROUBLESHOOTING

If you experience issues with your oil pressure readings, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Oil pressure gauge reads zero or very low.	Faulty oil pressure sender. Low engine oil level. Wiring issue to the sender. Actual low oil pressure (serious engine issue).	Check engine oil level and add if necessary. Inspect wiring and connector for damage or corrosion. Test the sender for proper resistance/voltage output (requires specialized tools). If oil level is good and sender/wiring are fine, consult a mechanic immediately as this could indicate a severe engine problem.
Oil pressure gauge reads consistently high.	Faulty oil pressure sender. Short circuit in wiring.	Inspect wiring for shorts. Test or replace the sender.
Oil pressure warning light stays on.	Faulty oil pressure sender/switch. Low engine oil level. Actual low oil pressure.	Check oil level. Test or replace the sender. If light persists after checking oil and sender, stop engine and consult a mechanic.

For complex issues or if you are uncomfortable performing these checks, it is recommended to seek professional assistance from a certified automotive technician.

8. SPECIFICATIONS

Key technical specifications for the Standard Motor Products PS60 Oil Pressure Sender:

Attribute	Value
Model Number	PS60 (PS-60)
Product Type	Oil Pressure Sender / Sensor
Brand	Standard Motor Products
Item Weight	2.72 ounces
Product Dimensions (L x W x H)	2.44 x 2.44 x 2.38 inches
Contact Type	Normally Open
Connector Type	Component
Terminal Type	Solder
Circuit Type	1-way

Attribute	Value
Actuator Type	Plunger
Contact Material	Copper
International Protection Rating	IP00
UPC	091769021313

9. WARRANTY AND SUPPORT

Standard Motor Products stands behind the quality of its products. For specific warranty information, please refer to the warranty card included with your purchase or visit the official Standard Motor Products website. Warranty terms may vary based on region and product type.

For technical support, installation assistance, or to inquire about replacement parts, please contact Standard Motor Products customer service through their official channels. You can typically find contact information on their website or product packaging.

Online Resources:

- [Standard Motor Products Official Website](#)
- [Product Page on Amazon.com](#)

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