

Standard Motor Products PS316

Standard Motor Products PS316 Oil Pressure Switch User Manual

Model: PS316

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Standard Motor Products PS316 Oil Pressure Switch. Please read this manual thoroughly before using the product to ensure proper function and safety.

The PS316 is an automotive oil pressure switch designed for reliable performance. It functions as an interruptor, typically used to monitor engine oil pressure.

SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the vehicle's engine is off and cooled down before attempting installation or maintenance.
- Disconnect the vehicle's battery to prevent electrical hazards.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Refer to your vehicle's service manual for specific oil pressure switch location and removal procedures.
- Improper installation can lead to oil leaks or electrical malfunctions. If unsure, consult a qualified mechanic.

WHAT'S IN THE BOX

Upon opening the package, you should find the following item:

- 1 x Standard Motor Products PS316 Oil Pressure Switch (Interruptor)

SETUP AND INSTALLATION

Follow these steps for proper installation of the PS316 Oil Pressure Switch:

1. **Locate the Existing Switch:** Identify the current oil pressure switch on your vehicle. Its location varies by vehicle

model, but it is typically found near the oil filter or on the engine block.

2. **Prepare for Removal:** Place a drain pan underneath the switch location to catch any dripping oil.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the existing switch.
4. **Remove Old Switch:** Use an appropriately sized wrench or socket to unscrew and remove the old oil pressure switch. Be prepared for a small amount of oil to drain out.
5. **Inspect and Clean:** Inspect the threads on the engine block for any debris or damage. Clean the area if necessary.
6. **Install New Switch:** Apply a small amount of thread sealant (if not pre-applied) to the threads of the new PS316 switch. Carefully thread the new switch into the engine block by hand to avoid cross-threading.
7. **Tighten Switch:** Tighten the switch with a wrench to the manufacturer's recommended torque specifications (refer to your vehicle's service manual). Do not overtighten.
8. **Reconnect Wiring:** Reconnect the electrical connector to the new PS316 switch, ensuring a secure connection.
9. **Check for Leaks:** Reconnect the battery, start the engine, and check for any oil leaks around the newly installed switch. Allow the engine to run for a few minutes to build oil pressure.



Figure 1: Side view of the Standard Motor Products PS316 Oil Pressure Switch, showing the main body and threaded connector.



Figure 2: Close-up view of the threaded end of the PS316 switch, which connects to the engine block.



Figure 3: View of the electrical connector end of the PS316 switch, where the vehicle's wiring harness attaches.

OPERATING PRINCIPLES

The Standard Motor Products PS316 is a normally open (NO) oil pressure switch. This means that when there is sufficient oil pressure, the switch closes, completing an electrical circuit. When oil pressure drops below a predetermined threshold, the switch opens, breaking the circuit. This signal is typically used to illuminate an oil pressure warning light on the vehicle's dashboard or to provide input to the engine control unit (ECU).

No user interaction is required for the operation of this switch once installed correctly. It functions automatically based on the engine's oil pressure.

MAINTENANCE

The PS316 Oil Pressure Switch is designed to be maintenance-free. However, periodic checks are recommended:

- **Visual Inspection:** During routine vehicle maintenance, visually inspect the switch and its wiring for any signs of oil leaks, corrosion, or damaged insulation.
- **Connection Check:** Ensure the electrical connector remains securely attached to the switch.
- **Cleanliness:** Keep the area around the switch clean and free of excessive oil or dirt buildup.

If any issues are observed, refer to the troubleshooting section or consult a professional.

TROUBLESHOOTING

If you experience issues related to your oil pressure warning system, consider the following:

Problem	Possible Cause	Solution
Oil pressure warning light stays on (engine running)	Low engine oil level; Faulty oil pressure switch; Wiring issue; Actual low oil pressure	Check engine oil level and add if necessary. Inspect switch wiring for damage. Test the switch for continuity (consult a mechanic). If oil level is correct and switch is functional, investigate actual engine oil pressure.
Oil pressure warning light does not illuminate (when it should)	Faulty oil pressure switch; Wiring issue; Burnt out dashboard bulb (if applicable)	Test the switch for proper operation. Check wiring for breaks or loose connections. Check dashboard warning light bulb.
Oil leak around the switch	Improperly tightened switch; Damaged threads; Faulty switch seal	Ensure switch is tightened to specifications. If leak persists, remove, inspect threads, apply new thread sealant, and reinstall. Replace switch if seal is damaged.

Note: Always address oil pressure warnings promptly. Continued operation with low oil pressure can cause severe engine damage.

SPECIFICATIONS

Attribute	Detail
Model Number	PS316
Brand	Standard Motor Products
Operation Mode	ON-OFF
Current Rating	20 Amps
Operating Voltage	5 Volts
Contact Type	Normally Open
Connector Type	Crimp
Terminal	Screw
Actuator Type	Plunger
Contact Material	Metal
International Protection Rating	IP00
Number of Positions	2
Connectivity Protocol	X-10
Color	Silver
Unit Count	1.0 Count
Item Weight	4.8 ounces
Product Dimensions (L x W x H)	3 x 3 x 3 inches

Attribute	Detail
Country of Origin	China
First Available Date	November 11, 2005

WARRANTY AND SUPPORT

For warranty information and technical support regarding your Standard Motor Products PS316 Oil Pressure Switch, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Standard Motor Products Official Website:www.smpcorp.com

For specific vehicle-related issues or complex diagnostics, it is always recommended to consult a certified automotive technician.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question