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Standard Motor Products PS-10

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Model: PS-10

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products PS-10 Switch. This component is designed for specific automotive applications, primarily functioning as a pressure-activated switch. Adhering to these instructions will help ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The Standard Motor Products PS-10 is a robust automotive pressure switch. It features a brass body, a normally open contact type, and is designed to activate or deactivate an electrical circuit based on a specific pressure threshold. Its compact design (approximately 2 x 2 x 3 inches) and durable metal construction ensure reliable operation in demanding vehicle environments.



Figure 1: The Standard Motor Products PS-10 Switch. This image displays the brass-colored switch with a blue sealing ring and red thread sealant on the threaded end, indicating its robust construction for automotive use.

Key Features:

- **Actuator Type:** Pressure-activated for reliable system monitoring.
- **Contact Type:** Normally Open, ensuring the circuit is completed upon reaching the specified pressure.
- **Material:** Durable metal construction for longevity.
- **International Protection Rating:** IP54, offering protection against dust and splashing water.

3. SETUP AND INSTALLATION

Installation of the PS-10 switch typically involves replacing an existing pressure switch in an automotive system. Due to the critical nature of automotive systems, it is highly recommended that installation be performed by a qualified technician or individuals with appropriate mechanical experience. Always refer to your vehicle's specific service manual for detailed instructions and safety precautions.

General Installation Steps:

1. **Safety First:** Ensure the vehicle's ignition is off and the battery is disconnected to prevent accidental electrical shorts or system activation.
2. **Locate the Old Switch:** Identify the existing pressure switch that needs replacement. This may be in the engine's cooling system, oil system, or clutch system, depending on the application.
3. **Prepare for Removal:** Place a drain pan if necessary to catch any fluids that may escape when removing the old switch.
4. **Remove Old Switch:** Carefully unscrew and remove the old switch. Note the electrical connections before disconnecting them.
5. **Inspect and Clean:** Inspect the mounting area for any debris or damage. Clean the threads if necessary.

6. **Install New Switch:** Apply a suitable thread sealant (if not pre-applied, as indicated by the red sealant on the product image) to the threads of the PS-10 switch. Carefully screw the new switch into place, tightening it to the manufacturer's specified torque. Avoid overtightening.
7. **Connect Wiring:** Reconnect the electrical wiring to the new switch. Ensure connections are secure and free from corrosion.
8. **Refill Fluids (if applicable):** If fluids were drained, refill them to the appropriate levels.
9. **Test System:** Reconnect the battery, start the vehicle, and carefully monitor the system for proper operation and any leaks. Verify that any associated warning lights function correctly.

Note: This switch is designed to provide a ground signal when pressure is below a certain threshold, activating a warning light. When pressure builds (e.g., 15 lbs in a cooling system), the ground connection is removed, turning the light off. If pressure is lost, the ground connection is restored, and the warning light illuminates.

4. OPERATING INSTRUCTIONS

The PS-10 switch operates automatically based on the pressure within the system it monitors. As a normally open pressure switch, it maintains an open circuit until the monitored pressure reaches a specific activation point. Once this pressure is met, the switch closes, completing the circuit and typically turning off a warning indicator or activating a function. Conversely, if the pressure drops below the threshold, the switch opens, reactivating the warning indicator.

For example, in a cooling system application, if the system loses pressure, the PS-10 switch will complete a ground circuit, illuminating a warning light on the dashboard to alert the driver of a potential issue such as coolant loss or overheating risk.

5. MAINTENANCE

The Standard Motor Products PS-10 switch is designed for minimal maintenance. However, periodic inspection can help ensure its continued reliability:

- **Visual Inspection:** Regularly check the switch and its connections for any signs of physical damage, corrosion, or leaks around the mounting area.
- **Wiring Integrity:** Ensure all electrical connections are secure and the wiring insulation is intact.
- **System Functionality:** Pay attention to any warning lights or system indicators that the switch controls. If they behave erratically or fail to activate/deactivate as expected, further investigation may be required.

No user-serviceable parts are contained within the switch itself. If the switch is determined to be faulty, it should be replaced.

6. TROUBLESHOOTING

If you experience issues with your PS-10 switch or the system it monitors, consider the following troubleshooting steps:

- **Warning Light Always On:**
 - Check the system pressure. Is it genuinely low?
 - Inspect wiring for a short to ground.
 - The switch may be faulty and stuck in the closed (grounded) position.
- **Warning Light Never On:**
 - Verify the warning light bulb is functional.
 - Check for an open circuit in the wiring to the switch.

- Ensure the switch is properly grounded (if applicable to its circuit design).
- The switch may be faulty and stuck in the open position.
- **Leaks Around Switch:**
 - Ensure the switch is tightened to the correct torque.
 - Verify that appropriate thread sealant was used during installation.
 - Inspect the threads for damage.

If troubleshooting does not resolve the issue, it is recommended to consult a professional automotive technician.

7. SPECIFICATIONS

Feature	Detail
Model Number	PS-10
Brand	Standard Motor Products
Operation Mode	Motor (Pressure-activated)
Contact Type	Normally Open
Actuator Type	Pressure
Circuit Type	1-way
Connector Type	Crimp
Terminal Type	Screw
Contact Material	Metal
International Protection Rating	IP54
Item Dimensions (L x W x H)	2 x 2 x 3 inches
Item Weight	3.2 ounces
UPC	091769020316
Country Of Origin	China

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Standard Motor Products PS-10 Switch, please refer to the documentation provided at the time of purchase or contact Standard Motor Products directly. Support for installation or troubleshooting beyond this manual's scope should be sought from a certified automotive technician or the product manufacturer.

Manufacturer: Standard Motor Products

For further assistance, please visit the official Standard Motor Products website or contact their customer service department.

