

## Standard Motor Products PSS4T

# Standard Motor Products PSS4T Power Steering Pressure Switch Instruction Manual

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products PSS4T Power Steering Pressure Switch. Please read these instructions carefully before proceeding with installation or use to ensure optimal performance and safety.

## PRODUCT OVERVIEW

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The Standard Motor Products PSS4T is a power steering pressure switch designed for automotive applications. It plays a crucial role in the vehicle's power steering system, often signaling the engine control unit (ECU) about power steering load to adjust engine idle speed and maintain smooth operation.

### Key Features:

- Direct replacement for original equipment (OE) part.
- Designed to meet or exceed OE specifications.
- Ensures proper power steering system function.
- Durable construction for long-lasting performance.

### What's in the Box:

- 1x Standard Motor Products PSS4T Power Steering Pressure Switch



**Image 1:** The Standard Motor Products PSS4T Power Steering Pressure Switch. This image shows the complete unit, featuring the metal threaded base for installation into the power steering system and the gray electrical connector for wiring.

## INSTALLATION INSTRUCTIONS

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**Professional installation is recommended.** Always refer to your vehicle's specific service manual for detailed instructions and torque specifications. Ensure the engine is off and cool before beginning any work.

### Safety Precautions:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Disconnect the vehicle's battery before starting work to prevent electrical shorts.
- Be aware of hot engine components and power steering fluid.
- Ensure the vehicle is securely supported if lifting is required.

### Steps:

1. **Locate the Existing Switch:** Identify the power steering pressure switch on your vehicle. It is typically located on the power steering pump or a high-pressure line.
2. **Prepare for Removal:** Place a drain pan underneath the switch to catch any power steering fluid that may leak during removal.
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old switch.
4. **Remove Old Switch:** Using an appropriate wrench, carefully unscrew and remove the old power steering pressure switch. Be prepared for some fluid leakage.
5. **Install New Switch:** Apply a small amount of thread sealant (if recommended by your vehicle's manual) to the threads of the new PSS4T switch. Screw the new switch into place by hand to avoid cross-threading, then tighten it to the manufacturer's specified torque. **Do not overtighten.**
6. **Reconnect Electrical Connector:** Firmly connect the electrical connector to the new PSS4T switch.

7. **Refill/Check Fluid Level:** Check and top off the power steering fluid reservoir as needed, using the correct type of fluid for your vehicle.
8. **Bleed System (if necessary):** If air has entered the system, follow your vehicle's procedure for bleeding the power steering system. This usually involves turning the steering wheel lock-to-lock several times with the engine running.
9. **Test Operation:** Start the engine and check for any leaks around the new switch. Verify that the power steering operates correctly and that any related dashboard warning lights are off.

## OPERATING PRINCIPLES

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The PSS4T power steering pressure switch operates by detecting the hydraulic pressure within the power steering system. When the steering wheel is turned, especially at low speeds or while stationary, the power steering pump works harder, increasing fluid pressure. The switch senses this increase in pressure and sends a signal to the vehicle's engine control unit (ECU).

Upon receiving this signal, the ECU may slightly increase the engine's idle speed to compensate for the additional load placed on the engine by the power steering pump. This prevents the engine from stalling or experiencing a significant drop in RPM during heavy steering maneuvers, ensuring smooth and consistent engine operation.

## MAINTENANCE

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The Standard Motor Products PSS4T Power Steering Pressure Switch is designed to be a maintenance-free component. However, regular inspection of the power steering system can help ensure its longevity and proper function:

- **Fluid Level:** Periodically check the power steering fluid level and top off with the correct fluid type as needed. Low fluid levels can cause increased wear on components.
- **Leaks:** Inspect the power steering system, including hoses, pump, and the pressure switch, for any signs of fluid leaks. Address leaks promptly to prevent damage to components.
- **Wiring:** Ensure the electrical connector to the switch is clean, secure, and free from corrosion or damage.

If any issues are observed, consult a qualified automotive technician.

## TROUBLESHOOTING

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If you suspect an issue with your power steering pressure switch, consider the following common symptoms and potential causes:

Symptom	Possible Cause	Action
Engine stalls or RPM drops significantly when turning the steering wheel at low speeds.	Faulty pressure switch not signaling ECU, or low power steering fluid.	Check power steering fluid level. Inspect switch wiring. Test switch operation with a diagnostic tool. Replace if faulty.
Power steering fluid leak around the switch.	Loose switch, damaged O-ring/seal, or cracked switch housing.	Tighten switch to specification. If leak persists, replace the switch and ensure proper sealing.
Check Engine Light (CEL) illuminated with a related diagnostic trouble code (DTC).	Electrical fault in the switch or wiring, or internal switch failure.	Scan for DTCs. Inspect wiring and connector. Test switch continuity and resistance. Replace if out of specification.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

## SPECIFICATIONS

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Attribute	Detail
Brand	Standard Motor Products
Model	PSS4T
Part Number	PSS4T
Switch Type	Pressure Switch
Actuator Type	Pressure switch
Control Type	Pressure-based
Current Rating	2 Amps
Operating Voltage	120 Volts
Contact Type	10pdt
Circuit Type	1-way
Number of Positions	2
Mounting Type	Panel Mount
Item Dimensions (L x W x H)	2 x 1.4 x 3.4 inches
Item Weight	0.13 Pounds
Contact Material	Copper
International Protection Rating	IP54
Specification Met	UL, IP54
Compatible with Vehicle Type	Passenger Car
Compatible Devices	Vehicles with power steering systems
UPC	025623212371

## WARRANTY AND SUPPORT

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For information regarding product warranty, returns, or technical support, 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](http://www.smpcorp.com)