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Race-Driven 812090

Race-Driven Brake Pressure Switch Instruction Manual

For Polaris RZR XP 1000 Premium (Model 812090)

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Race-Driven Brake Pressure Switch. This switch is designed as a direct OEM replacement for Polaris RZR XP 1000 Premium models from 2022 to 2025, replacing Polaris OEM part numbers 4014262 and 4081117. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Safety Information

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage.
- Ensure the vehicle is parked on a level surface with the parking brake engaged before beginning installation.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation.
- If you are unsure about any step of the installation process, consult a qualified mechanic.
- Do not modify the brake pressure switch or its wiring. Unauthorized modifications can lead to system failure and void the warranty.
- After installation, test the brake system thoroughly to ensure proper operation before driving the vehicle.

Package Contents

Your package should contain the following item:

- 1 x Race-Driven Brake Pressure Switch (Model 812090)

Product Overview

The Race-Driven Brake Pressure Switch is a critical component in your vehicle's braking system, designed to activate brake lights or other brake-related functions when hydraulic pressure is detected. It features a durable brass body and a plug-in connector for easy installation.



Figure 1: Angled view of the brake pressure switch, highlighting the threaded brass body and the black electrical connector.



Figure 2: Side profile of the brake pressure switch, illustrating the full length from the threaded end to the electrical connector.



Figure 3: Detailed view of the black electrical connector, showing the two pins inside.

Setup and Installation

This brake pressure switch is designed for direct replacement of the original equipment manufacturer (OEM) part. Refer to your vehicle's service manual for specific instructions regarding the location and removal of the existing brake pressure switch.

1. **Prepare the Vehicle:** Ensure the vehicle is turned off, the ignition key is removed, and the parking brake is engaged. Disconnect the negative terminal of the vehicle's battery.
2. **Locate the Old Switch:** Identify the existing brake pressure switch on your Polaris RZR XP 1000 Premium. It is typically located near the master cylinder or within the brake line system.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old brake pressure switch.
4. **Remove Old Switch:** Using an appropriate wrench, unscrew and remove the old brake pressure switch. Be

prepared for a small amount of brake fluid to leak out.

5. **Install New Switch:** Apply a small amount of thread sealant (compatible with brake fluid) to the threads of the new Race-Driven brake pressure switch. Carefully screw the new switch into the brake line system by hand to avoid cross-threading, then tighten it with a wrench to the manufacturer's specified torque (refer to your vehicle's service manual).
6. **Connect Wiring:** Reconnect the electrical connector to the new brake pressure switch, ensuring it clicks securely into place.
7. **Bleed Brake System:** After replacing any component in the brake hydraulic system, it is crucial to bleed the brake lines to remove any air that may have entered. Follow your vehicle's service manual for the correct brake bleeding procedure.
8. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
9. **Test Functionality:** Start the vehicle and test the brake system. Verify that the brake lights illuminate when the brake pedal is pressed and that there are no brake fluid leaks.

Operating Instructions

The Race-Driven Brake Pressure Switch operates automatically. When pressure is applied to the brake system (by pressing the brake pedal), the internal mechanism of the switch closes, completing an electrical circuit. This action typically signals the vehicle's computer or directly activates the brake lights, indicating that the brakes are being applied.

- **Function:** The switch is a Normally Open (NO) type, meaning the circuit is open (no current flow) until brake pressure is applied.
- **Activation:** When brake fluid pressure reaches a predetermined threshold, the switch closes, allowing current to flow.
- **Deactivation:** When brake pressure is released, the switch returns to its open state, interrupting the circuit.

Maintenance

The Race-Driven Brake Pressure Switch is designed for long-term reliability and typically requires minimal maintenance. However, regular inspection of your vehicle's brake system is recommended.

- **Visual Inspection:** Periodically check the switch and its wiring for any signs of damage, corrosion, or loose connections.
- **Brake Fluid Leaks:** Inspect the area around the switch for any brake fluid leaks. Address any leaks immediately.
- **Functionality Check:** Regularly verify that your vehicle's brake lights activate promptly when the brake pedal is pressed and turn off when released.
- **Cleaning:** If necessary, gently clean the exterior of the switch and connector with a clean, dry cloth. Avoid using harsh chemicals.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Brake lights do not illuminate when pedal is pressed.	Loose or corroded electrical connection. Faulty brake pressure switch. Blown fuse for brake lights. Air in the brake lines.	Check and secure electrical connector. Clean any corrosion. Test the switch for continuity when pressure is applied. Replace if faulty. Inspect and replace the brake light fuse if necessary. Bleed the brake system to remove air.
Brake lights remain on constantly.	Stuck brake pressure switch (internally shorted). Incorrectly installed switch.	Test the switch. Replace if it shows continuity without brake pressure. Verify proper installation and ensure no external factors are keeping the switch activated.
Brake fluid leak around the switch.	Improperly tightened switch. Damaged threads or sealing surface. Missing or incorrect thread sealant.	Tighten the switch to the specified torque. Inspect threads and sealing surface for damage. Replace switch or repair threads if necessary. Ensure appropriate thread sealant was used during installation.

If you continue to experience issues after attempting these troubleshooting steps, please contact Race-Driven customer support or a qualified mechanic.

Specifications

Brand	Race-Driven
Model Number	812090
Compatible Vehicle Type	UTV, Side-by-Side
Compatible Devices	Polaris RZR XP 1000 Premium 2022-2025
Replaces OEM Part Numbers	4014262, 4081117
Switch Type	Pressure Switch
Contact Type	Normally Open
Material	Brass
Connector Type	Plug In
Mounting Type	Plug-In Mount
Item Weight	1.6 ounces
Item Dimensions (L x W x H)	12.5 x 9.5 x 1 inches

Warranty Information

This Race-Driven Brake Pressure Switch comes with a**60-day warranty against manufacturer defects**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, abuse, accidents, or unauthorized modifications. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, warranty claims, or any questions regarding your Race-Driven Brake Pressure Switch, please contact Race-Driven customer support. Visit the official Race-Driven website for contact details or refer to your purchase documentation.
Online Resources: Race-Driven Amazon Store

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