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XYZIL 0L2917A

XYZIL Low Oil Pressure Switch Sensor 0L2917A Instruction Manual

Model: 0L2917A

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your XYZIL Low Oil Pressure Switch Sensor, model 0L2917A. Please read this manual thoroughly before installation and use to ensure safe and efficient performance.

The XYZIL 0L2917A is a normally closed (N/C) oil pressure switch designed to activate at 5 PSI, featuring a 1/8-27NPT thread. It is compatible with Generac engines.

SAFETY INFORMATION

- Always disconnect power to the engine before performing any installation or maintenance.
- Ensure the engine is cool before handling components to prevent burns.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Refer to the engine manufacturer's service manual for specific torque specifications and procedures.
- Improper installation can lead to engine damage or personal injury. If unsure, consult a qualified technician.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- 1x XYZIL Low Oil Pressure Switch Sensor (Model: 0L2917A)

PRODUCT OVERVIEW

The XYZIL 0L2917A oil pressure switch is a critical component for monitoring engine oil pressure. It is a normally closed (N/C) switch, meaning the circuit is closed when there is no oil pressure and opens when oil pressure reaches or exceeds 5 PSI. This design is commonly used to trigger a warning light or shut down the engine in the event of low oil pressure.



Figure 1: Front view of the XYZIL Low Oil Pressure Switch Sensor. This image shows the main body of the sensor with its electrical terminals and threaded end.



Figure 2: Side view of the sensor, highlighting the 1/8-27NPT threaded connection for installation into the engine block or oil gallery.



Figure 3: Another side view of the sensor, providing a different angle of the electrical terminals and the hexagonal body for wrenching.

INSTALLATION (SETUP)

1. Preparation:

- Ensure the engine is completely off and cool.
- Locate the existing oil pressure switch on your Generac engine. Refer to your engine's service manual for the exact location.
- Place a drain pan beneath the switch location to catch any residual oil.

2. Removal of Old Switch:

- Carefully disconnect the electrical connector(s) from the old switch.
- Using an appropriately sized wrench, unscrew the old oil pressure switch counter-clockwise.
- Allow any remaining oil to drain.

3. Installation of New Switch:

- Apply a small amount of thread sealant (e.g., PTFE tape or liquid thread sealant) to the threads of the new XYZIL 0L2917A sensor. Ensure the sealant is compatible with oil.

- Carefully thread the new sensor into the engine block or oil gallery by hand to prevent cross-threading.
- Tighten the sensor with a wrench. Refer to your engine's service manual for the correct torque specification. *Overtightening can damage the sensor or engine block.*
- Reconnect the electrical connector(s) to the terminals of the new switch. Ensure a secure connection.

4. Post-Installation Check:

- Check the engine oil level and top up if necessary.
- Start the engine and allow it to run for a few minutes.
- Visually inspect the area around the new sensor for any oil leaks.
- Verify that any associated oil pressure warning lights or gauges are functioning correctly (e.g., warning light should turn off once oil pressure builds).

OPERATION

The XYZIL 0L2917A Low Oil Pressure Switch Sensor operates automatically to monitor engine oil pressure. Its function is based on its "Normally Closed" (N/C) characteristic:

- **Engine Off / No Oil Pressure:** When the engine is not running or oil pressure is below 5 PSI, the switch contacts are closed, completing an electrical circuit. This state typically illuminates a low oil pressure warning light or allows a safety circuit to prevent engine start.
- **Engine Running / Sufficient Oil Pressure:** Once the engine starts and oil pressure reaches or exceeds 5 PSI, the internal diaphragm of the switch is actuated, causing the contacts to open. This breaks the electrical circuit, turning off the low oil pressure warning light or enabling engine operation.

The switch acts as a safety device, signaling a critical condition if oil pressure drops below the specified threshold during operation.

MAINTENANCE

The XYZIL 0L2917A Low Oil Pressure Switch Sensor is designed for long-term reliability and typically requires minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** During routine engine maintenance, visually inspect the sensor and its electrical connections for any signs of damage, corrosion, or oil leaks.
- **Electrical Connections:** Ensure the electrical terminals are clean and securely connected. Loose or corroded connections can lead to intermittent operation or false readings.
- **Leak Checks:** Periodically check the area around the sensor for any oil seepage. If a leak is detected, tighten the sensor (to the manufacturer's torque specification) or replace it if the leak persists.

Do not attempt to disassemble the sensor, as it is a sealed unit and not user-serviceable.

TROUBLESHOOTING

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

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Oil pressure warning light stays on after engine start.	<ul style="list-style-type: none"> Low engine oil level. Faulty oil pressure switch. Actual low oil pressure (engine issue). Wiring issue to the switch. 	<ul style="list-style-type: none"> Check and top up engine oil. Test the switch for continuity (closed without pressure, open with pressure). Replace if faulty. Consult an engine mechanic to diagnose actual oil pressure issues. Inspect wiring for damage or loose connections.
Oil pressure warning light does not illuminate with engine off (ignition on).	<ul style="list-style-type: none"> Faulty oil pressure switch (stuck open). Burnt out warning light bulb/LED. Wiring issue. 	<ul style="list-style-type: none"> Test the switch for continuity (should be closed without pressure). Replace if faulty. Check and replace the warning light bulb/LED. Inspect wiring for damage or loose connections.
Oil leak around the sensor.	<ul style="list-style-type: none"> Improperly tightened sensor. Damaged threads on sensor or engine block. Insufficient or incorrect thread sealant. Cracked sensor body. 	<ul style="list-style-type: none"> Tighten to specified torque. Remove, inspect threads, reapply sealant, and reinstall. Replace sensor if cracked.

If these steps do not resolve the issue, it is recommended to consult a qualified engine technician.

SPECIFICATIONS

Feature	Specification
Model Number	0L2917A
Brand	XYZIL
Activation Pressure	5 PSI
Thread Size	1/8-27NPT
Switch Type	Normally Closed (N/C)
Compatibility	Generac Engine
Output Type	Push-Pull
Package Dimensions	5.94 x 3.62 x 1.54 inches

Feature	Specification
Item Weight	2.08 ounces

WARRANTY AND SUPPORT

For warranty information or technical support regarding your XYZIL Low Oil Pressure Switch Sensor 0L2917A, please contact your point of purchase or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: XYZIL

Note: Warranty terms may vary. Please refer to the specific warranty policy provided at the time of purchase.
