

Powermate 034-0184RP

Powermate 034-0184RP Pressure Switch Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Powermate 034-0184RP Pressure Switch. This genuine replacement part is designed to regulate air pressure in compatible air compressors, ensuring the motor turns on and off at the correct pressure (125-155 psi). Proper use and care will ensure the durability and long-lasting performance of your pressure switch.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical and pressurized equipment. Failure to follow these instructions may result in serious injury or property damage.

- **Disconnect Power:** Always disconnect the air compressor from its power source before performing any installation, maintenance, or repair.
- **Depressurize System:** Ensure the air compressor system is fully depressurized before working on the pressure switch.
- **Qualified Personnel:** Installation and maintenance should only be performed by qualified individuals familiar with electrical and pneumatic systems.
- **Proper Tools:** Use appropriate tools for installation and removal to prevent damage to the switch or compressor.
- **Read All Instructions:** Familiarize yourself with this manual and your air compressor's manual before proceeding.

3. SETUP AND INSTALLATION

The Powermate 034-0184RP Pressure Switch features a 4-port design with a bleeder, allowing for versatile integration into various air compressor setups. Ensure the replacement switch matches the specifications of your original unit.

3.1 Pre-Installation Check

- Verify that the new pressure switch (Model: 034-0184RP) is the correct replacement part for your air compressor.
- Inspect the switch for any visible damage from shipping.
- Gather necessary tools, which may include wrenches, screwdrivers, and thread sealant.

3.2 Installation Steps

1. **Disconnect Power:** Unplug the air compressor from the electrical outlet.
2. **Depressurize Tank:** Open the drain valve or use the pressure relief valve to completely empty the air tank.
3. **Remove Old Switch:** Carefully disconnect all electrical wires and air lines from the old pressure switch. Note the wiring configuration for correct re-installation. Unscrew and remove the old switch from its mounting point.
4. **Prepare New Switch:** Apply thread sealant to the threads of the new Powermate 034-0184RP Pressure Switch if not pre-applied.
5. **Install New Switch:** Screw the new pressure switch into the manifold or mounting point. Ensure it is securely tightened but do not overtighten.
6. **Reconnect Connections:** Reconnect all air lines and electrical wires to the new switch, following the original configuration. Ensure all connections are secure and airtight.
7. **Check for Leaks:** Once installed, close the tank drain valve. Reconnect power and allow the compressor to build pressure. Check for any air leaks around the new switch connections using soapy water.



Figure 1: The Powermate 034-0184RP Pressure Switch, a black rectangular unit with a red lever for selecting 'OFF' or 'AUTO' modes. The unit features regulatory markings including UKCA, CE, and UL, indicating compliance with various standards. It has a robust housing designed for industrial applications.



Figure 2: A side view of the Powermate 034-0184RP Pressure Switch, highlighting its connection ports. This perspective helps in understanding how the unit integrates into an air compressor system.

4. OPERATING INSTRUCTIONS

The Powermate 034-0184RP Pressure Switch is designed for automatic operation, maintaining air pressure within the specified range of 125-155 psi. It features a simple lever for control.

4.1 Control Lever Positions

- **O OFF:** In this position, the pressure switch is disengaged, and the air compressor motor will not operate. This is the safe position for maintenance or when the compressor is not in use.
- **I AUTO:** In this position, the pressure switch automatically monitors the air tank pressure. When the pressure drops below the lower threshold (approximately 125 psi), the switch will engage the compressor motor to build pressure. Once the upper threshold (approximately 155 psi) is reached, the switch will disengage the motor, turning it off.

Always ensure the lever is in the 'O OFF' position before connecting or disconnecting the compressor from power.

5. MAINTENANCE

The Powermate 034-0184RP Pressure Switch is built for durability and long-lasting performance. Regular inspection can help maintain its efficiency and extend its lifespan.

- **Periodic Inspection:** Regularly check the pressure switch and its connections for any signs of wear, corrosion, or damage.
- **Cleanliness:** Keep the switch free from dirt, dust, and moisture to prevent operational issues.
- **Connection Integrity:** Ensure all electrical and pneumatic connections remain tight and secure. Loose connections can lead to intermittent operation or leaks.
- **Bleeder Valve:** If equipped, ensure the bleeder valve operates freely and is not obstructed.

No internal user-serviceable parts are present. If the switch malfunctions, replacement is typically required.

6. TROUBLESHOOTING

If your air compressor is not functioning as expected, the pressure switch may be a contributing factor. Here are common issues and potential solutions:

6.1 Compressor Motor Not Turning On at Proper PSI

- **Check Power:** Ensure the compressor is plugged in and the power outlet is functional.
- **Switch Position:** Verify the pressure switch lever is in the 'I AUTO' position.
- **Electrical Connections:** Inspect all electrical wiring to the pressure switch for loose or corroded connections.
- **Pressure Setting:** Confirm the tank pressure is below the cut-in pressure (approx. 125 psi).
- **Faulty Switch:** If all other checks pass, the pressure switch itself may be faulty and require replacement.

6.2 Compressor Motor Cutting Out Prematurely or Not Shutting Off

- **Pressure Setting:** Check the tank pressure gauge. If the compressor reaches the cut-out pressure (approx. 155 psi) but doesn't shut off, the switch may be faulty.
- **Air Leaks:** Significant air leaks in the system can cause the compressor to run continuously or cycle frequently. Check all fittings and the tank for leaks.
- **Faulty Switch:** If the switch fails to disengage the motor at the correct pressure, it indicates a malfunction and requires replacement.

For issues beyond basic troubleshooting, consult a qualified technician or refer to your air compressor's service manual.

7. SPECIFICATIONS

Specification	Detail
Model	034-0184RP
Brand	Powermate
Operation Mode	Automatic
Pressure Range	125-155 psi
Port Configuration	4 Port with bleeder
Current Rating	1 A
Operating Voltage	120 volts
Contact Type	Normally Open
Connector Type	Screw Terminal
Switch Type	Pressure Switch
Terminal	Screw

Specification	Detail
Material	HAWA (Housing), Brass (Contact)
Item Dimensions (L x W x H)	4.88 x 3 x 9.5 inches
Circuit Type	4-way
Mounting Type	Wall Mount
Actuator Type	Plunger
Number of Positions	2 (OFF, AUTO)
Upper Temperature Rating	150 °F
International Protection Rating	IP54
Included Components	Pressure Switch
Item Weight	16 ounces
Color	Black/Red
Compatible Devices	Powermate air compressors and other compatible brands

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Powermate 034-0184RP Pressure Switch comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, unauthorized modifications, or improper installation. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, warranty claims, or to inquire about other genuine Powermate replacement parts, please contact Powermate customer service. Refer to the contact information provided with your original air compressor or visit the official Powermate website for current support details.

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.

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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