Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Makita 412024-E

Makita 412024-E Pressure Switch Instruction Manual

Model: 412024-E

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Makita 412024-E Pressure Switch. This component is an Original Equipment Manufacturer (OEM) authorized replacement part designed for various Makita models. Please read this manual thoroughly before proceeding with any installation or operation.

Safety Information

Always prioritize safety. Improper installation or use of this pressure switch can result in serious injury or damage to equipment. Observe the following precautions:

- Disconnect power to the equipment before installation or maintenance.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- If you are unsure about any step, consult a qualified technician.

Product Overview

The Makita 412024-E is a normally open (NO) pressure switch designed to control electrical circuits based on pressure changes. It features screw-type connectors and is rated for 120 Volts (AC) and 24 Amps. This switch is a critical component for maintaining optimal performance in compatible Makita equipment.



Figure 1: The Makita 412024-E Pressure Switch. This image displays the main unit with its metal pressure connection manifold, featuring multiple threaded ports. A black housing encases the electrical components, and a small lever with a red tip is visible on the side, indicating an ON/OFF position.

Setup and Installation

1. **Power Disconnection:** Ensure the equipment is completely powered off and unplugged from its power source.
2. **Locate Existing Switch:** Identify the pressure switch to be replaced. Note its orientation and how it is connected both mechanically (pressure lines) and electrically.
3. **Disconnect Pressure Lines:** Carefully disconnect any pressure lines or tubes connected to the old switch. Be prepared for residual pressure release.
4. **Disconnect Electrical Wiring:** Label all wires before disconnecting them from the old switch to ensure correct re-connection.
5. **Remove Old Switch:** Unmount the old pressure switch from its position.
6. **Install New Switch:** Mount the Makita 412024-E Pressure Switch in the same location and orientation as the old one. Ensure it is securely fastened.
7. **Connect Pressure Lines:** Reconnect the pressure lines to the appropriate threaded ports on the new switch. Ensure connections are tight to prevent leaks.
8. **Connect Electrical Wiring:** Reconnect the electrical wires to the screw terminals on the new switch, matching the

labels made earlier. Ensure all connections are firm and insulated.

9. **Verify Installation:** Double-check all connections, both mechanical and electrical, for security and correctness.

Operating Instructions

The Makita 412024-E Pressure Switch operates automatically once installed and the system is pressurized. Its primary function is to turn the connected equipment (e.g., an air compressor motor) ON and OFF based on predefined pressure thresholds.

- **Initial Power-Up:** After installation, restore power to the equipment. The switch should engage the motor when pressure drops below the lower threshold.
- **Automatic Operation:** The switch will automatically disengage the motor when the upper pressure threshold is reached and re-engage it when pressure falls.
- **Manual ON/OFF Lever:** Some installations may utilize a manual ON/OFF lever (if present on the specific equipment) to override automatic operation or to safely shut down the system. Refer to your equipment's main manual for details on its use.

Maintenance

Regular inspection of the pressure switch can help ensure its longevity and reliable operation.

- **Visual Inspection:** Periodically check the switch for any signs of physical damage, corrosion, or loose connections.
- **Leak Detection:** Inspect pressure connections for any air or fluid leaks. Tighten connections as necessary.
- **Electrical Connections:** Ensure all electrical screw terminals remain tight. Loose connections can lead to overheating or intermittent operation.
- **Cleaning:** Keep the switch free from excessive dust, dirt, or debris, which can impede its mechanical function.

Note: *Do not attempt to disassemble the pressure switch. There are no user-serviceable parts inside.*

Troubleshooting

Problem	Possible Cause	Solution
Equipment does not turn ON.	No power, faulty wiring, switch failure.	Check power supply. Verify all electrical connections. Test switch continuity (with power disconnected).
Equipment does not turn OFF.	Switch failure, pressure sensor issue.	Inspect switch for mechanical obstruction. Consult equipment manual for pressure sensor diagnostics.
Intermittent operation.	Loose electrical connections, fluctuating pressure.	Tighten all electrical connections. Check for stable pressure in the system.
Air/fluid leaks at connections.	Improperly tightened fittings.	Tighten all pressure line connections. Use thread sealant if appropriate for your system.

If troubleshooting steps do not resolve the issue, contact Makita customer support or a qualified service technician.

Specifications

Model Number: 412024-E

Brand: Makita

Operation Mode: ON-OFF

Current Rating: 24 Amps

Operating Voltage: 120 Volts (AC)

Contact Type: Normally Open

Connector Type: Screw

Terminal: Screw

Item Dimensions (L x W x H): 1 x 1 x 1 inches

Circuit Type: 1-way

Actuator Type: Plunger

Contact Material: Steel

International Protection Rating: IP00

Number of Positions: 1

Control Method: Push Button

Connectivity Protocol: X-10

Item Weight: 1.44 ounces

Part Number: 412024-E

UPC: 840288651316

Warranty and Support

For warranty information and technical support regarding your Makita 412024-E Pressure Switch, please refer to the official Makita website or contact Makita customer service directly. Keep your purchase receipt as proof of purchase.
Makita Official Website: www.makitatools.com
Customer Service: Refer to the contact information provided on the official website for your region.

© 2025 Makita. All rights reserved. Information in this manual is subject to change without notice.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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

Open the live page

https://manuals.plus/asin/B010BSWEMC

More documents and user manuals: **https://manuals.plus/**