Milwaukee 2941-21

Milwaukee M18 Fuel 5 CFM Vacuum Pump Instruction Manual

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Milwaukee M18 Fuel 5 CFM Vacuum Pump (Model 2941-21). Please read this manual thoroughly before use to ensure proper handling and to maximize the lifespan and performance of your tool.

Important Safety Information

Always adhere to general safety practices when operating power tools and vacuum equipment. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment, including eye protection, when operating the vacuum pump.
- Ensure adequate ventilation when operating the pump, especially in enclosed spaces, to prevent the buildup of fumes.
- Handle vacuum pump oil with care. Refer to the oil manufacturer's safety data sheet for proper handling, storage, and disposal.
- Use only Milwaukee M18 REDLITHIUM batteries and chargers. Do not use damaged batteries or chargers.
- Disconnect the battery before performing any maintenance, cleaning, or when the pump is not in use.
- Keep hands, hair, and loose clothing away from moving parts.

Setup

1. Battery Installation

Insert a fully charged Milwaukee M18 REDLITHIUM battery into the battery port on the pump until it clicks securely into place. Ensure the battery is firmly seated.

2. Oil Filling

Remove the oil fill cap. Carefully fill the pump with high-quality vacuum pump oil to the indicated level on the sight glass. Do not overfill. Securely replace the oil fill cap.

3. Hose Connection

Connect the appropriate vacuum hoses to the pump's inlet port and to the system being evacuated. Ensure all connections are tight and leak-free to achieve optimal vacuum performance.



Image showing the Milwaukee M18 Fuel 5 CFM Vacuum Pump in red and gray, with an M18 battery pack inserted. Vacuum hoses are connected to the pump's inlet and to an external system, indicating it is in operation. The pump features a carrying handle and a clear oil sight glass.

Operating Instructions

1. Starting the Pump

With the battery installed and hoses connected, press the power button to start the vacuum pump. The battery indicator lights will illuminate, showing the remaining charge.

2. Monitoring Vacuum

Use a digital vacuum gauge connected to the system to accurately monitor the vacuum level. The Milwaukee

M18 Fuel 5 CFM Vacuum Pump is designed to pull down to an ultimate vacuum of 25 microns, ensuring thorough evacuation.

3. Battery Runtime

A fully charged Milwaukee M18 REDLITHIUM XC8.0 battery provides approximately 1 hour of continuous vacuum time. This runtime is generally sufficient for evacuating systems up to 5 tons, making it ideal for small to medium-sized equipment.

4. Vacuum Hold Feature

The pump features an internal check valve that automatically seals the vacuum in the system if the battery runs out or the pump is powered off unexpectedly. This critical feature prevents the loss of vacuum, allowing you to replace the battery or resume operation without compromising the evacuation process.

5. Shutting Down

Once the desired vacuum level is achieved and verified, close the system's service valves. Then, turn off the vacuum pump by pressing the power button. Carefully disconnect the hoses, ensuring no air enters the evacuated system.

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your vacuum pump.

1. Oil Changes

Regularly check the oil level and clarity through the sight glass. Change the vacuum pump oil frequently, especially after each use or if it appears cloudy, discolored, or contaminated. Refer to the oil drain plug location for proper oil removal and disposal according to local regulations.

2. Cleaning

Keep the pump's exterior clean and free of dirt, dust, and debris. Ensure the cooling fins are clear and unobstructed for optimal heat dissipation and to prevent overheating.

3. Battery Care

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Charge batteries using only Milwaukee M18 chargers. Do not store fully discharged batteries for extended periods.

Troubleshooting

If you encounter issues with your vacuum pump, refer to the following common problems and solutions:

- **Pump Not Starting:** Check the battery charge level. Ensure the battery is properly seated in the battery port. Verify the power button is functioning correctly.
- **Pump Not Pulling Vacuum:** Check for leaks in all hoses and system connections. Ensure the oil level is correct and the oil is clean. Verify the oil fill cap and drain plug are securely tightened.
- **Low Vacuum Performance:** Change the vacuum pump oil, as old or contaminated oil can reduce efficiency. Check for blockages in the inlet or exhaust ports. Ensure the system being evacuated is properly sealed and free of leaks.

If issues persist after attempting these troubleshooting steps, contact Milwaukee customer support or an authorized service center for assistance.

Specifications

- **Model Number:** 2941-21
- **Manufacturer:** Milwaukee Electric
- **CFM Rating:** 5 CFM
- **Ultimate Vacuum:** 25 Microns
- **Power Source:** M18 REDLITHIUM Battery (18 Volts DC)
- **Battery Cell Type:** Lithium Ion
- **Approximate Runtime (with XC8.0 battery):** 1 Hour
- **Item Weight:** 24.9 pounds
- **Package Dimensions:** 15.7 x 12.48 x 11.46 inches
- **Color:** Red

Warranty and Support

This Milwaukee M18 Fuel 5 CFM Vacuum Pump is covered by a Manufacturer's Warranty. For specific warranty details, product registration, or technical support, please refer to the warranty card included with your product or visit the official Milwaukee website. For service or replacement parts, contact an authorized Milwaukee service center.