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Milwaukee 2780-20

Milwaukee M18 FUEL 4-1/2"/5" Grinder Instruction Manual

Model: 2780-20 | Brand: Milwaukee

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Milwaukee M18 FUEL 4-1/2"/5" Grinder. The M18 FUEL grinder is engineered to deliver the power of a corded grinder with enhanced run time and motor life, suitable for demanding grinding, surface preparation, and cutting applications.

Safety Information

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

- Always wear eye protection.
- Ensure work area is clear and well-lit.
- Keep hands clear of rotating parts.
- Use only compatible batteries and chargers.
- Disconnect battery pack before changing accessories or making adjustments.

Components and Features

Familiarize yourself with the key components of your Milwaukee M18 FUEL Grinder:

- **POWERSTATE™ Brushless Motor:** Designed for maximum power and extended motor life.
- **REDLINK PLUS™ Intelligence:** Advanced electronics for optimized performance, electronic clutch, and overload protection.
- **REDLITHIUM™ XC5.0 Battery Pack (not included):** Provides superior run time and power.
- **Tool-Free Accessory Changes:** Allows for quick and easy disc and guard adjustments without additional tools.
- **Paddle-Switch Design:** Enhances comfort and ease of use in various operating positions.
- **Anti-Vibration Side Handle:** Improves user comfort and control.



Figure 1: Overview of the Milwaukee M18 FUEL Grinder with battery and side handle attached.



Figure 2: Side view highlighting the paddle switch and motor housing.

Setup

Battery Installation

Ensure the battery pack is fully charged before use. To install, align the battery pack with the base of the tool and slide it in until it clicks securely into place.

Accessory Installation and Adjustment

The grinder features a 100% tool-free design for accessory changes and guard adjustments.

1. **Changing Discs:** Press the spindle lock button located on the gear housing. Rotate the disc until the spindle locks. Unscrew the flange nut by hand or using the provided wrench (if needed for initial tightness). Remove the old disc and replace it with the new one, ensuring it is properly seated. Tighten the flange nut securely.
2. **Adjusting Guard:** The protective guard can be rotated to multiple positions for optimal safety and access. Simply

pull the guard release lever and rotate the guard to the desired position, then release the lever to lock it.



Figure 3: Grinder with battery inserted, ready for operation.



Figure 4: Top view of the grinder head, illustrating the spindle lock button for disc changes.

Operating Instructions

Powering On/Off

To turn the grinder ON, depress the paddle switch. To turn the grinder OFF, release the paddle switch. The tool features a rapid stop function for quick cessation of disc rotation upon release of the switch.

Grinding and Cutting Techniques

Always ensure the work piece is securely clamped. Apply light, even pressure. Allow the tool to do the work. Avoid excessive force, which can lead to kickback or damage to the tool/accessory.

Maintenance

Regular maintenance ensures optimal performance and longevity of your grinder.

- **Cleaning:** Keep the tool's ventilation openings clear and free of debris. Use compressed air to blow out dust from the motor housing.
- **Accessory Inspection:** Regularly inspect discs and other accessories for wear, cracks, or damage. Replace worn or damaged accessories immediately.
- **Battery Care:** Store battery packs in a cool, dry place. Avoid extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly; Battery discharged; Tool overload protection activated.	Ensure battery is fully seated; Charge battery; Allow tool to cool down.
Reduced performance	Worn accessory; Low battery charge.	Replace accessory; Recharge battery.

Specifications

Feature	Detail
Brand	Milwaukee
Model Number	2780-20
Power Source	Electric-powered (Cordless)
Material	Metal
Item Weight	5 Pounds
Product Dimensions	12.9"L x 7.6"W x 2.3"H
Battery Type	Lithium Ion (M18 REDLITHIUM XC5.0 recommended)
Special Features	Brushless motor, REDLINK PLUS Intelligence, Tool-free accessory changes

Warranty and Support

This Milwaukee M18 FUEL Grinder comes with a**5-year warranty** on the tool. For warranty claims, service, or technical support, please refer to the official Milwaukee website or contact their customer service department.

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