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› CDIYTOOL Cordless Brushless Angle Grinder for Milwaukee 18V Batteries - 125mm Wheel, 12000 RPM Instruction Manual

CDIYTOOL 2520021111-Q

CDIYTOOL Cordless Brushless Angle Grinder Instruction Manual

Model: 2520021111-Q

1. INTRODUCTION

Thank you for choosing the CDIYTOOL Cordless Brushless Angle Grinder. This manual provides essential information for the safe and effective operation, assembly, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and keep it for future reference.

This angle grinder is designed for grinding, cutting, and polishing various materials. It features a powerful brushless motor and is compatible with Milwaukee 18V batteries (not included).



Image 1.1: CDIYTOOL Cordless Brushless Angle Grinder and included components.

2. SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

2.1 General Power Tool Safety

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** This tool is cordless. Ensure the battery pack is fully charged before use. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection (safety goggles), hearing protection, and a dust mask when operating the grinder. Wear appropriate clothing; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack before making any adjustments, changing accessories, or storing power

tools.

- **Battery Compatibility:** This tool is designed for use with Milwaukee M18 batteries. Do not attempt to use incompatible battery packs.

2.2 Angle Grinder Specific Safety

- **Guard:** Always use the wheel guard provided. Ensure it is securely attached and adjusted for maximum safety.
- **Accessories:** Only use accessories that are rated for the speed of the grinder and are correctly sized (125mm wheels).
- **Kickback:** Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm grip on the tool.
- **Sparks:** Grinding and cutting operations produce sparks. Keep bystanders and flammable materials away from the work area.
- **Cooling:** Allow the tool to cool down during prolonged use to prevent overheating.

3. PRODUCT OVERVIEW

The CDIYTOOL Cordless Brushless Angle Grinder is a versatile tool featuring a powerful brushless motor for enhanced efficiency and durability. It offers three variable speeds up to 12000 RPM for various applications.

3.1 Key Features

- **Brushless Motor:** Provides high performance, energy efficiency, and extended tool lifespan with reduced maintenance.
- **Cordless Design:** Offers unparalleled convenience and flexibility, eliminating the need for power outlets and tangled cords.
- **Variable Speed:** Three adjustable speeds up to 12000 RPM for optimal control across different tasks.
- **Ergonomic Handle:** Adjustable handle suitable for both left and right-handed users, ensuring comfort and control during prolonged use.
- **Milwaukee M18 Compatibility:** Designed to work with Milwaukee M18 series batteries (battery not included).

Upgraded Powerful Brushless Motor



Energy Efficient



Long Lifespan



Stability



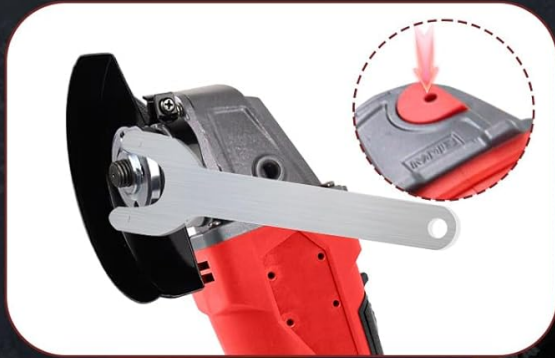
Brushless Motor



MAX 12000RPM

Image 3.1: Benefits of the powerful brushless motor.

How To Install Wheel?



1

Press and Hold the Self-Locking Switch, Turn the Upper Pressure Plate Counter clockwise and Screw It out



2

Put the Convex Surface of the Grinding Wheel Blade into the Lower Pressure Plate



3

Install the Convex Surface of the Upper Pressing Plate on the Grinding Wheel Plate and Screw It on the Spindle



4

Press the Self-Locking Button and Tighten the Upper Pressure Plate Clockwise with a Wrench.

Image 3.2: Ergonomic design and safety features.

3.2 Included Components

The package includes:

- 1 x Cordless Angle Grinder
- 1 x Wheel Guard
- 1 x Auxiliary Handle
- 1 x Spanner Wrench
- 2 x Steel Grinding Wheels
- 2 x Metal Cutting Discs
- 2 x Grinding Wheels

DIY Angle Grinder Attachment

125mm Saw blade



Steel Grinding Wheel *2



Metal Cutting Wheel *2



Grinding Wheel*2



Image 3.3: Various discs and wheels included for different tasks.

4. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	2520021111-Q
Material	Aluminum Alloy
Operating Speed (Max)	12000 RPM
Spindle Thread	M14
Wheel Diameter	125 mm
Voltage	18 Volts (DC)
Power Source	Battery Powered (Battery not included)
Weight	2.23 Kilograms
Dimensions	35.79 x 15.9 x 11.7 cm

5. ASSEMBLY AND SETUP

5.1 Battery Installation

This angle grinder is compatible with Milwaukee M18 series batteries. To install the battery, align the battery pack with the base of the tool and slide it in until it clicks securely into place. To remove, press the battery release button and slide the battery out.

Cordless Angle Grinder Compatible With

Milwaukee M18 battery, suitable for
48-11-1820 48-11-1822 48-11-1840
48-11-1841 48-11-1828 48-11-1850
48-11-1852 48-11-1860 48-11-1862
48-11-1880 and more

 Package does not include batteries

Image 5.1: Battery compatibility with Milwaukee M18 series (battery not included).

5.2 Wheel Guard and Auxiliary Handle Installation

1. **Wheel Guard:** Position the wheel guard over the spindle housing. Ensure it is oriented to protect you from sparks and debris. Tighten the guard's clamp screw firmly.
2. **Auxiliary Handle:** Screw the auxiliary handle into one of the threaded holes on the side of the grinder head. Choose the side that provides the most comfortable and secure grip for your operation.

5.3 Installing/Changing Grinding/Cutting Wheels

Always ensure the battery is removed before changing wheels.

1. Press and hold the spindle lock button.
2. Using the provided spanner wrench, turn the upper pressure sheet counter-clockwise to loosen and remove it.
3. Place the desired grinding or cutting wheel onto the lower pressure plate, ensuring the convex surface of the wheel faces the tool.
4. Install the upper pressure plate onto the spindle, ensuring its convex surface faces the wheel.
5. Press the spindle lock button again and tighten the upper pressure plate clockwise with the spanner

wrench until secure.



Image 5.2: Detailed steps for wheel installation.

6. OPERATION

6.1 Powering On/Off

- To turn on the grinder, press the safety two-action switch and then the power button.
- To turn off, release the power button. The safety switch can be locked for continuous operation, but always ensure to unlock and turn off the tool when not in use.

6.2 Speed Control

This grinder features three variable speed settings. Adjust the speed according to the material and task. Lower speeds are suitable for polishing or delicate work, while higher speeds are for aggressive grinding and cutting.

6.3 Applications

The cordless angle grinder is suitable for a wide range of tasks:

- **Grinding:** Smoothing rough surfaces, removing excess material from metal, concrete, or masonry.

- **Cutting:** Cutting metal pipes, rebar, tiles, and other hard materials.
- **Polishing:** Achieving a smooth finish on various surfaces (with appropriate polishing pads/wheels).
- **Wallboard Grooving:** Creating grooves in wallboard for specific installations.



Versatile Application

Image 6.1: Examples of versatile applications for the angle grinder.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your tool.

- **Cleaning:** After each use, clean the tool with a soft, dry cloth. Remove any dust or debris from the ventilation openings. Do not use water or chemical cleaners.
- **Disc Replacement:** Replace worn or damaged grinding/cutting discs immediately. Never use a damaged disc.
- **Storage:** Store the tool in a dry, secure place out of reach of children. Remove the battery pack before storage.
- **Inspection:** Periodically inspect the power tool for any signs of damage, loose parts, or wear. If any issues are found, do not use the tool until it has been repaired.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed	Ensure battery is fully charged and correctly inserted.
Reduced performance/power	Low battery charge; Worn or incorrect disc	Recharge battery; Replace disc with appropriate type and ensure it's not worn.
Excessive vibration	Damaged or improperly installed disc; Loose components	Inspect and replace disc if damaged; Ensure disc and guard are securely fastened.
Tool overheats	Prolonged heavy use; Blocked ventilation	Allow tool to cool down; Clear any obstructions from ventilation slots.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.