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

Metabo 613074620

Metabo 18V 4-1/2" Angle Grinder 5.5Ah Kit

Model: 613074620

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Metabo 18V 4-1/2" Angle Grinder 5.5Ah Kit. Please read all instructions carefully before using the tool to ensure your safety and prolong the life of the product. Keep this manual for future reference.

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.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions. Stay alert, watch what you are doing and use common sense when operating a power tool.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

Angle Grinder Specific Safety

- Always use the auxiliary handle provided with the tool. Loss of control can result in personal injury.
- Never mount a cutting disc on a grinding disc guard. Ensure the guard is correctly positioned for the type of work being performed.
- Maintain a firm grip on the tool. The tool features an Electronic Safety Clutch to help prevent kickback if a wheel jams, but proper handling is crucial.
- Be aware of the FAST BRAKE SYSTEM which stops accessories in 2 seconds or less, enhancing user safety.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of

California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. Components and Features

The Metabo 18V 4-1/2" Angle Grinder is designed for professional use, offering cordless portability with robust performance. Key features include:

- **Brushless Motor:** Provides productivity, power, and durability comparable to corded grinders.
- **LiHD High Density Battery:** Revolutionary technology for increased runtime, power, and service life.
- **FAST BRAKE SYSTEM:** Stops accessories in 2 seconds or less for enhanced safety.
- **Non-locking Paddle Switch:** Integrated for safety and comfort.
- **Detachable Dust Filter:** Protects the motor from metal particles, extending tool life.
- **Tool-free Adjustable Guard:** For quick and convenient adjustments.
- **Rotatable Battery Pack:** Allows for working in hard-to-reach places.
- **Quick Wheel Change System:** Enables 100% tool-free accessory changes.
- **Electronics Package:** Includes Overload Protection, Power Interruption Protection, and Electronic Safety Clutch.



Figure 3.1: Metabo 18V 4-1/2" Angle Grinder with battery and side handle attached.

4. Setup

4.1 Battery Installation and Charging

1. Ensure the battery pack is fully charged using the Metabo AIR-COOLED charger. The 4-LED capacity indicator on the battery shows its charge status.
2. Align the battery pack with the battery port on the grinder handle.

3. Slide the battery pack firmly into place until it clicks, indicating it is securely locked.

4.2 Guard Adjustment

The grinder features a tool-free adjustable guard for safety and convenience.

1. Press the guard release lever or button.
2. Rotate the guard to the desired position to protect against sparks and debris during operation.
3. Release the lever/button to lock the guard in place. Ensure it is securely fastened before use.

4.3 Wheel Installation

The quick wheel change system allows for 100% tool-free accessory changes.

1. Ensure the grinder is switched off and the battery is removed.
2. Press and hold the spindle lock button.
3. Unscrew the quick-release flange nut or standard spanner nut.
4. Place the desired grinding or cutting wheel onto the spindle, ensuring it is centered.
5. Secure the wheel by tightening the quick-release flange nut or standard spanner nut firmly. Release the spindle lock.

5. Operating

5.1 Powering On/Off

The grinder is equipped with an integrated non-locking paddle switch.

- To turn on: Squeeze the paddle switch.
- To turn off: Release the paddle switch. The FAST BRAKE SYSTEM will engage, stopping the accessory quickly.

5.2 Grinding and Cutting Techniques

Always hold the grinder firmly with both hands, using the auxiliary handle. Position yourself to maintain balance and control. Allow the tool to reach full speed before engaging with the workpiece.

- **Grinding:** Apply light, even pressure. Move the grinder smoothly across the surface.
- **Cutting:** Use a cutting disc and ensure the guard is correctly positioned. Make straight, controlled cuts. Avoid twisting or binding the disc in the cut.



Figure 5.1: An angle grinder in use, demonstrating its application in metalworking.

5.3 Electronic Safety Features

Your Metabo grinder includes advanced electronic protection:

- **Overload Protection:** Protects the motor from damage due to excessive load. If activated, the tool may temporarily shut down. Reduce pressure and allow the tool to cool.
- **Power Interruption Protection:** Prevents unintentional starting of the machine after a power interruption (e.g., battery removal and re-insertion). The paddle switch must be released and re-engaged to restart.
- **Electronic Safety Clutch:** Helps prevent kickback if the wheel jams. The tool will shut down immediately if a jam is detected.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your Metabo angle grinder.

- **Cleaning:** Regularly clean the tool, especially the air vents and the detachable dust filter, to prevent metal particles from entering and damaging the motor. Use compressed air to blow out debris.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose them to extreme temperatures. Charge batteries regularly, even if not in use, to maintain their health.
- **Inspection:** Periodically inspect the power cord (if using a corded charger), housing, guard, and accessories for any signs of damage or wear. Replace damaged parts immediately.
- **Accessory Check:** Before each use, inspect grinding and cutting wheels for cracks, chips, or other damage. Never use damaged accessories.

7. Troubleshooting

If you encounter issues with your Metabo angle grinder, refer to the following common problems and solutions:

- **Tool does not start:**

- Ensure the battery is fully charged and properly inserted.
- Check if the Power Interruption Protection has activated. Release and re-engage the paddle switch.
- Verify that the paddle switch is fully depressed.

- **Tool stops during operation:**
  - This may indicate Overload Protection or Electronic Safety Clutch activation. Reduce pressure on the workpiece.
  - Check for a jammed wheel. If jammed, release the switch, remove the battery, and clear the obstruction.
  - Battery may be low. Recharge the battery.
- **Excessive vibration or noise:**
  - Check if the grinding wheel is properly installed and tightened.
  - Inspect the wheel for damage or imbalance. Replace if necessary.
  - Ensure the guard is securely fastened.

If problems persist after attempting these solutions, please contact Metabo customer support.

8. Specifications

Specification	Value
Brand	Metabo
Model Number	613074620
Voltage	18 Volts
Maximum Rotational Speed	10000 RPM
Item Weight	12.8 Pounds
Product Dimensions	19 x 4 x 12.5 inches
Material	Metal, Plastic
Power Source	Air Powered (Note: This is a cordless electric tool, 'Air Powered' might be a misclassification in source data)

9. Warranty and Support

9.1 Warranty Information

Your Metabo 18V 4-1/2" Angle Grinder is covered by a**3-year/30-day warranty program**. Please refer to the warranty card included with your product for full terms and conditions, or visit the official Metabo website for detailed warranty policy information.

9.2 Customer Support

For technical assistance, service, or questions regarding your Metabo product, please contact Metabo customer support. Contact information can typically be found on the official Metabo website or on the product packaging.

© 2023 Metabo. All rights reserved.

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/B0159N6PMY

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