

Metabo 603624420

Metabo 4-1/2-5-Inch Angle Grinder Instruction Manual

Model: 603624420

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective operation, setup, and maintenance of your Metabo 4-1/2-5-Inch Angle Grinder bundle. This bundle includes the Metabo Angle Grinder (Model 603624420), a Metabo 4-1/2-inch Original Slicer® Wheel, a Metabo 4-1/2-inch Plus-Z Grinding Wheel, and a Metabo 4-1/2" Flapper Plus 40 5/8-11 T27 Fg. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1: Placeholder image for the Metabo Angle Grinder bundle. Actual product appearance may vary.

2. GENERAL SAFETY INSTRUCTIONS

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

2.1 Personal Safety

- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) that comply with current national standards.
- **Hearing Protection:** Use hearing protection during extended periods of operation.
- **Respiratory Protection:** Wear a dust mask, especially when grinding materials that produce fine dust.
- **Proper Attire:** Do not wear loose clothing, jewelry, or long hair that can get caught in moving parts.
- **Stay Alert:** Do not operate the tool when tired or under the influence of drugs, alcohol, or medication.

2.2 Electrical Safety

- Ensure the power supply matches the voltage specified on the tool's nameplate.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.

2.3 Tool Use and Care

- **Secure Workpiece:** Always secure the workpiece firmly. Do not hold it by hand.
- **Proper Guarding:** Ensure all guards are in place and properly adjusted before operation.
- **Accessory Compatibility:** Only use accessories that are designed for your specific angle grinder and are rated for the tool's maximum RPM.
- **Kickback Prevention:** The Metabo S-Automatic mechanical safety slip clutch is designed to reduce the likelihood of kickback by helping the user maintain control if the accessory jams. However, always maintain a firm grip and proper stance.
- **Overload Protection:** Do not force the tool. It will perform better and safer at the rate for which it was designed.

3. COMPONENTS AND PACKAGE CONTENTS

Your Metabo Angle Grinder bundle includes the following:

- Metabo 4-1/2-5-Inch Angle Grinder (Model 603624420)
- Metabo 4-1/2-inch Original Slicer® Wheel
- Metabo 4-1/2-inch Plus-Z Grinding Wheel
- Metabo 4-1/2" Flapper Plus 40 5/8-11 T27 Fg
- Side Handle
- Spanner Wrench (for wheel changes)

4. SETUP

4.1 Attaching the Side Handle

The side handle can be screwed into either the left or right side of the gear housing, depending on user preference and application. Ensure it is tightened securely before operation for optimal control and safety.

4.2 Installing Grinding/Cutting Wheels

1. **Disconnect Power:** Always unplug the grinder from the power source before changing accessories.
2. **Position Guard:** Adjust the wheel guard to provide maximum protection for the specific application.
3. **Press Spindle Lock:** Press and hold the spindle lock button to prevent the spindle from rotating.
4. **Remove Flange Nut:** Use the spanner wrench to loosen and remove the outer flange nut.
5. **Place Wheel:** Place the desired grinding or cutting wheel onto the inner flange, ensuring it sits flat and centered.
6. **Secure Flange Nut:** Re-attach the outer flange nut and tighten it firmly with the spanner wrench while holding the spindle lock button. Do not overtighten.
7. **Check Rotation:** Release the spindle lock and manually spin the wheel to ensure it rotates freely and is properly seated.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn the grinder ON, slide the switch forward. For continuous operation, push the switch forward and then press down on the front part of the switch.
- To turn the grinder OFF, release the switch. If locked on, press the rear part of the switch to release it.

5.2 Grinding and Cutting Techniques

- **Grinding:** Hold the grinder at a 15-30 degree angle to the workpiece. Apply moderate pressure and move the grinder smoothly across the surface. The Metabo **ONGLIFE MOTOR** provides increased power and durability for demanding tasks.
- **Cutting:** For cutting, hold the grinder at a 90-degree angle to the workpiece. Use the edge of the cutting wheel. Do not apply side pressure to the cutting wheel, as this can cause it to bind or shatter. The Metabo **Original Slicer® Wheel** is designed for cool, burr-free cutting.
- **Flap Discs:** The Metabo **Flapper Plus** disc is ideal for aggressive material removal and finishing. Hold the grinder at a slight angle (5-15 degrees) to the workpiece for optimal performance.
- **Material Compatibility:** The **Plus-Z Grinding Wheel** features a proprietary blend of Premium High Performance Zirconia Alumina Abrasive Grains for very aggressive stock removal and excellent wheel life across various materials.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Metabo Angle Grinder.

- **Cleaning:** Regularly clean the ventilation slots to prevent dust buildup, which can affect motor performance and lifespan. Use compressed air to blow out dust from the tool's interior.
- **Carbon Brushes:** The Metabo **ONGLIFE MOTOR** is designed for extended service life. If the tool experiences reduced power or intermittent operation, carbon brushes may need inspection or replacement by a qualified service technician.
- **Cord Inspection:** Periodically inspect the power cord for damage. Do not use the tool if the cord is damaged.
- **Accessory Storage:** Store grinding and cutting wheels in a dry place to prevent moisture absorption, which can compromise their integrity.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start.	No power supply; damaged cord; faulty switch.	Check power outlet and cord. If issues persist, seek professional service.
Excessive vibration during operation.	Improperly mounted wheel; damaged wheel; worn spindle.	Ensure wheel is correctly installed and tightened. Replace damaged wheels. If spindle is worn, seek service.
Reduced grinding/cutting performance.	Worn or incorrect accessory; excessive pressure.	Replace worn accessories. Use appropriate accessory for the material. Apply moderate, consistent pressure.
Tool overheats.	Blocked ventilation slots; continuous heavy load.	Clean ventilation slots. Allow tool to cool down during prolonged heavy use.

8. SPECIFICATIONS

Specification	Value
Brand	Metabo
Model	603624420

Specification	Value
Style	Angled
Material	Aluminum
Power Source	Gas (Note: This specification might be a data entry error, as angle grinders are typically electric. Refer to product labeling for accurate power source.)
Item Package Quantity	1 (Bundle)
ASIN	B0CXQWC6GR
Date First Available	March 11, 2024

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or authorized service centers, please refer to the documentation included with your product or visit the official Metabo website. Keep your proof of purchase for warranty claims.
Metabo Official Website: www.metabo.com

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

