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Makita GA5021C

Makita GA5021 Angle Grinder User Manual

Model: GA5021C

1. Important Safety Information

Always observe basic safety precautions when operating electric power tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this tool.

- **Eye Protection:** Always wear safety goggles or safety glasses with side shields when operating the angle grinder.
- **Proper Grip:** Maintain a firm grip on the tool with both hands during operation. The side handle should always be securely attached.
- **Guarding:** Ensure the protective cover is correctly mounted and adjusted for the task.
- **Anti-Restart Function:** The Makita GA5021 features an anti-restart function to prevent unintentional startup after a power interruption. An LED diode indicates power supply status and anti-restart function activation.
- **Work Area:** Keep the 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:** Do not expose power tools to rain or wet conditions. Avoid body contact with earthed or grounded surfaces.

2. Product Overview

The Makita GA5021 Angle Grinder is a robust power tool designed for various grinding and cutting applications. It features a powerful motor, a comfortable grip, and advanced safety features like the SJS (Super Joint System) for vibration dampening and an anti-restart function.



Figure 2.1: Front view of the Makita GA5021 Angle Grinder, showcasing its ergonomic design, side handle, and installed grinding wheel.



Figure 2.2: The Makita GA5021 Angle Grinder in operation, demonstrating its capability for material removal with sparks generated during grinding.



Figure 2.3: Side view of the Makita GA5021 Angle Grinder, highlighting its compact dimensions for improved maneuverability.

3. Setup and Assembly

Before using the angle grinder, ensure all components are correctly assembled and secured.

3.1 Attaching the Side Handle

The side handle can be screwed into either side of the gear housing, depending on user preference and application. Ensure it is tightened securely for a firm hold.

3.2 Installing/Changing the Grinding Wheel

1. Unplug the tool from the power source before performing any assembly or adjustments.
2. Press the spindle lock button to prevent the spindle from rotating.
3. Place the inner clamping flange onto the spindle.
4. Position the grinding wheel onto the inner flange, ensuring it sits flat.
5. Screw the locking flange nut onto the spindle. Use the provided spindle wrench to tighten the nut firmly.
6. Release the spindle lock button.

3.3 Attaching the Protective Cover

The protective cover is essential for safety. Mount it securely onto the tool and adjust its position to shield against sparks and debris during operation. Ensure it is firmly clamped.

4. Operation

Follow these steps for safe and effective operation of your Makita GA5021 Angle Grinder.

4.1 Powering On/Off

- To turn on the tool, slide the switch to the "ON" position.
- To turn off the tool, slide the switch to the "OFF" position.
- The anti-restart function prevents the tool from starting automatically if power is restored after an interruption while the switch is in the "ON" position. You must cycle the switch to "OFF" and then back to "ON" to restart the tool.

4.2 Grinding Techniques

Apply light, even pressure when grinding. Allow the tool's speed to do the work. Avoid excessive pressure, which can lead to kickback or damage to the grinding wheel. The small dimensions of this grinder allow for better maneuverability, even in confined spaces.

4.3 Vibration Dampening (SJS)

The Makita GA5021 incorporates a modern SJS (Super Joint System) for vibration dampening. This system helps to reduce vibrations transmitted to the user, improving comfort and control during extended use.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your angle grinder. Always unplug the tool before performing any maintenance.

5.1 Cleaning

Periodically clean the ventilation openings to prevent overheating. Use a soft cloth to wipe down the tool's exterior. Do not use harsh chemicals or abrasive cleaners.

5.2 Inspection

Regularly inspect the power cord for damage. Check the grinding wheel for cracks or excessive wear before each use. Ensure all screws and fasteners are tight.

6. Troubleshooting

This section addresses common issues you might encounter with your Makita GA5021 Angle Grinder.

Problem	Possible Cause	Solution
Tool does not start.	No power supply; Anti-restart function activated.	Check power connection. If LED diode indicates anti-restart, cycle the switch OFF then ON.
Excessive vibration.	Grinding wheel improperly installed or damaged; Loose components.	Ensure wheel is correctly installed and tightened. Replace damaged wheel. Check for loose screws.
Tool overheats.	Blocked ventilation openings; Excessive load.	Clean ventilation openings. Reduce pressure during operation. Allow tool to cool.

7. Technical Specifications

Brand	Makita
Model Number	GA5021C
Power Consumption	1450 W
Idle Speed	10000 RPM
Grinding Wheel Diameter	125 mm (5 inches)
Spindle Thread	M 14
Item Weight	2.9 kg (6.38 pounds)
Voltage	120 Volts
Wattage	1.4 watts (Note: Product description states 1450W, specification states 1.4W. Using 1450W from description as it aligns with typical grinder power.)
Product Dimensions	15.35"L x 5.47"W x 4.72"H
Power Source	Corded Electric

8. Warranty and Support

For warranty information and customer support, please refer to the warranty card included with your purchase or visit the official Makita website. Keep your proof of purchase for any warranty claims.
You can find more information and contact details on theMakita Official Website.

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