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Makita GA5021/2

Makita GA5021 240V 125mm Angle Grinder User Manual

Model: GA5021/2

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita GA5021 240V 125mm Angle Grinder. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1: Overview of the Makita GA5021 Angle Grinder. This image displays the complete tool, highlighting its compact design and ergonomic grip, ready for various grinding and cutting tasks.

General Safety Warnings

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.

Work Area Safety

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear hearing protection when operating the tool for extended periods.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.

Components and Features

Familiarize yourself with the main components of your angle grinder:

1. **Spindle Lock Button:** Used to lock the spindle for disc changes.
2. **Side Handle:** Provides additional grip and control. Can be mounted on either side.
3. **Wheel Guard:** Protects the user from sparks and debris. Adjustable.
4. **On/Off Switch:** Activates and deactivates the tool.
5. **Grinding/Cutting Disc:** The abrasive accessory used for material removal or cutting.



Figure 2: Side view of the Makita GA5021 Angle Grinder. This image highlights the main body of the grinder, including the power cord connection point and the general shape of the tool's housing.

Setup

1. Unpacking

Carefully remove the angle grinder and all accessories from the packaging. Inspect for any damage that may have occurred during shipping. Retain packaging for future storage or transport.

2. Attaching the Side Handle

The side handle can be screwed into either of the two threaded holes on the gear housing, depending on your preference and the application. Ensure it is tightened securely before operation.

3. Installing/Changing the Grinding Wheel

1. Ensure the tool is unplugged from the power source.

2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Position the grinding or cutting disc onto the inner flange, ensuring it sits flat.
5. Screw the lock nut onto the spindle and tighten it firmly using the provided wrench.
6. Release the spindle lock button.



Figure 3: Close-up view of the grinding disc and protective guard on the Makita GA5021. This image illustrates the proper positioning of the disc and guard assembly, crucial for safe operation.

4. Adjusting the Wheel Guard

The wheel guard should always be positioned to provide maximum protection from sparks and debris, and to cover as much of the exposed disc as possible. Loosen the guard clamping screw, rotate the guard to the desired position, and then securely tighten the screw.

Operating the Angle Grinder

1. Power Connection

Connect the grinder to a suitable 240V power outlet. Ensure the power cord is not damaged and is positioned safely to avoid tripping hazards or contact with the rotating disc.

2. Switching On/Off

- To start the tool, slide the switch lever forward. For continuous operation, push the front part of the switch lever until it locks.
- To stop the tool, release the switch lever. If it is locked, push the rear part of the switch lever to release it.

3. Proper Grip and Posture

Always hold the grinder firmly with both hands, one on the main handle and one on the side handle. Maintain a stable stance and keep your body balanced. Do not overreach.

4. Grinding and Cutting Techniques

- Allow the disc to reach full speed before contacting the workpiece.
- Apply light, even pressure. Do not force the tool, as this can lead to kickback or damage to the disc and motor.
- For grinding, hold the disc at a slight angle (typically 15-30 degrees) to the workpiece.
- For cutting, use a cutting disc and hold the tool perpendicular to the workpiece. Make shallow passes rather than attempting to cut through thick material in one go.
- Always direct sparks away from yourself and others, and away from flammable materials.



Figure 4: The Makita GA5021 Angle Grinder in active use, demonstrating its capability to generate sparks during material removal. This image emphasizes the importance of proper safety gear and technique during operation.

Maintenance

Regular maintenance ensures the longevity and safe operation of your angle grinder.

1. Cleaning

- Always unplug the tool before cleaning.
- Regularly clean the ventilation openings to prevent overheating. Use a soft brush or compressed air.
- Wipe down the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

2. Carbon Brush Replacement

The motor utilizes carbon brushes which wear down over time. When they are worn, the motor may spark excessively or stop working. Have the carbon brushes inspected and replaced by a Makita authorized service center or a qualified technician.

3. General Inspection

- Before each use, inspect the power cord for any cuts, fraying, or damage.
- Check that all screws and fasteners are tight.
- Ensure the wheel guard is securely attached and functional.
- Inspect the grinding disc for cracks, chips, or excessive wear before each use. Replace damaged discs immediately.

Troubleshooting

This section addresses common issues you might encounter with your angle grinder.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged power cord; Worn carbon brushes; Faulty switch.	Check power outlet and cord; Inspect cord for damage; Have brushes and switch checked by a qualified technician.
Excessive sparking from motor	Worn carbon brushes; Dirty commutator.	Have carbon brushes replaced and commutator cleaned by a qualified technician.
Tool overheats	Blocked ventilation openings; Overloading the tool.	Clean ventilation openings; Reduce pressure during operation; Allow tool to cool down.
Excessive vibration	Damaged or improperly installed disc; Loose components.	Inspect and replace disc if damaged; Ensure disc is installed correctly and lock nut is tight; Check all fasteners.

Specifications

Feature	Detail
Model Number	GA5021/2
Rated Power	1450 W
Rated Output Power (P2)	1000 W
Maximum Output Power	2600 W
No Load Speed Max.	10000 rpm
Sound Power (Lwa)	101 dB (A)
Voltage	240 Volts
Wattage	1050 watts
Disc Diameter	125mm
Item Weight	2.7 Kilograms (approx. 5.94 pounds)
Product Dimensions	5.51 x 17.13 x 6.69 inches
Power Source	Electric

Feature	Detail
Material	PVC
Color	Blue

Warranty and Support

Makita power tools are manufactured under strict quality control standards. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or visit the official Makita website.
You can find more information and contact details on theMakita Official Store on Amazon.

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