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Makita GA7020/1

Makita GA7020/1 110V 180mm Angle Grinder User Manual

Model: GA7020/1 | Brand: Makita

1. Introduction

Thank you for choosing the Makita GA7020/1 110V 180mm Angle Grinder. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before using the angle grinder to ensure proper handling and to prevent injury or damage.

Keep this manual in a safe place for future reference.

2. General 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 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.

2.2 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.

2.3 Personal Safety

- Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, gloves, and a dust mask.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in

unexpected situations.

3. Product Overview and Components

Familiarize yourself with the main components of your Makita GA7020/1 Angle Grinder before operation.



Figure 1: Makita GA7020/1 Angle Grinder with its original packaging.



Figure 2: Side view of the angle grinder, highlighting the main body and handle.

- **Trigger-type On/Off Switch:** For controlling power to the tool.
- **Adjustable Side Handle:** Can be positioned in three different locations for optimal control and comfort.
- **Tool-free Wheel Guard:** Allows for quick and easy adjustment or removal of the guard without additional tools.
- **Spindle Lock Button:** Engages the spindle to facilitate easy disc changes.

- **Soft Start:** Reduces start-up torque for smoother operation and extended gear life.
- **Double Insulation:** Provides enhanced electrical safety.

4. Setup and Assembly

Before connecting the tool to a power source, ensure all components are correctly assembled.

4.1 Attaching the Side Handle

1. Identify the threaded holes on the grinder head. There are typically three positions available.
2. Screw the side handle firmly into the desired position. Ensure it is tightened securely to prevent loss of control during operation.



Figure 3: The angle grinder with the side handle attached, ready for use.

4.2 Adjusting the Wheel Guard

The wheel guard can be adjusted without tools for optimal protection and access to the workpiece.

1. Loosen the quick-release lever or mechanism on the wheel guard.
2. Rotate the guard to the desired position to shield against sparks and debris.
3. Securely fasten the quick-release lever or mechanism. Ensure the guard is rigid and will not move during operation.



Figure 4: Top view of the angle grinder, illustrating the position of the wheel guard.

4.3 Installing/Changing Grinding Discs

Always disconnect the tool from the power supply before changing discs.

1. Press and hold the spindle lock button to prevent the spindle from rotating.
2. Use the provided lock nut wrench to loosen and remove the lock nut.
3. Remove the old grinding disc (if applicable).
4. Place the new grinding disc onto the inner flange, ensuring it is correctly seated.
5. Thread the lock nut back onto the spindle and tighten it firmly with the wrench while holding the spindle lock button.
6. Release the spindle lock button.

5. Operating Instructions

Ensure you have read and understood all safety instructions before operating the angle grinder.

5.1 Powering On and Off

- To start the grinder, depress the trigger-type on/off switch.
- The soft start feature will ensure a smooth power-up, reducing sudden jolts.
- To stop the grinder, release the trigger switch.

5.2 Grinding and Cutting Techniques

Always hold the grinder firmly with both hands, using the main handle and the side handle.

- 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, hold the disc perpendicular to the workpiece and make straight, controlled passes.
- Be aware of sparks and debris. Ensure the wheel guard is positioned correctly.



Figure 5: The angle grinder actively cutting a metal piece, demonstrating typical operation with sparks.



Figure 6: The angle grinder being used for grinding, showing the angle of approach to the workpiece.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your angle grinder. Always disconnect the tool from the power supply before performing any maintenance.

6.1 Cleaning

- Periodically clean the ventilation openings to prevent overheating. Use compressed air if available.
- Wipe down the exterior of the tool with a soft, damp cloth. Do not use harsh chemicals or solvents.

6.2 Disc Inspection and Replacement

- Inspect grinding and cutting discs before each use for cracks, chips, or excessive wear. Replace damaged discs immediately.
- Ensure discs are within their expiration date and rated for the maximum RPM of the grinder.

6.3 Carbon Brushes

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

7. Troubleshooting

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

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Worn carbon brushes.	Check power connection; Test switch; Have brushes inspected/replaced.
Excessive vibration	Damaged or unbalanced disc; Loose components; Worn bearings.	Replace disc; Check all fasteners; Seek professional service.
Motor sparks excessively	Worn carbon brushes; Dirty commutator.	Have brushes inspected/replaced; Clean commutator (professional service recommended).

Problem	Possible Cause	Solution
Tool overheats	Blocked ventilation slots; Overloading the tool.	Clean ventilation slots; Reduce load, allow tool to cool.

If the problem persists after attempting these solutions, please contact a qualified service center.

8. Specifications

Feature	Detail
Manufacturer	Makita
Model Number	GA7020/1
Product Dimensions	57.5 x 19.5 x 17 cm
Item Weight	6.8 Kilograms
Voltage	110 Volt
Wattage	2200 Watts
Power Source	Corded Electric
Material	Metal, Plastic
Included Components	1 x Lock Nut Wrench, 1 x Makita GA7020/1 Angle Grinder, 1 x Side Handle
Plug Type	G - 3 pin British

9. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Makita website. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service inquiries, please contact Makita customer service or an authorized service center. You can find contact information on the official Makita website: www.makita.com

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