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HIKOKI G18MGAS9Z

HIKOKI G18MGAS9Z 180 mm AC Angle Grinder

INSTRUCTION MANUAL

Model: G18MGAS9Z

1. INTRODUCTION

The HIKOKI G18MGAS9Z is a robust 180 mm AC Angle Grinder engineered for demanding grinding and cutting applications. It features a powerful 2600W motor, delivering a no-load speed of 8400 RPM for efficient material removal. The ergonomic slim handle design enhances user comfort and control during extended operation. This manual provides essential information for the safe and effective use of your angle grinder.



Image 1.1: HIKOKI G18MGAS9Z Angle Grinder in operation, displaying key specifications.

2. SAFETY INFORMATION

Always adhere to general power tool safety guidelines to prevent electric shock, fire, and serious injury. Keep this instruction manual accessible for future reference.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep the 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug. Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and a dust mask when operating the grinder. Dress appropriately; avoid loose clothing or jewelry. Secure long hair.
- **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 before making any adjustments, changing accessories, or storing power tools.
- **Kickback and Related Warnings:** Kickback is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm grip on the tool and position your body and arm to resist kickback forces.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your HIKOKI G18MGAS9Z Angle Grinder before operation.



Image 3.1: Key components of the HIKOKI G18MGAS9Z Angle Grinder.

Components:

- **Spindle Lock:** Used to lock the spindle for easy accessory changes.
- **Wheel Guard:** Provides protection from sparks and debris. Must always be in place.
- **Anti-Misoperation Switch:** Designed to prevent accidental startup, enhancing safety.

- **Motor:** The powerful 2600W motor drives the grinding or cutting disc.
- **Side Handle:** Provides additional grip and control during operation. The 3-way handle design allows for versatile positioning.



Image 3.2: The ergonomic 3-way handle design for enhanced control.

4. SETUP

4.1 Mounting the Wheel Guard

1. Ensure the grinder is unplugged from the power source.
2. Position the wheel guard over the spindle housing, aligning it to cover the top portion of the disc.
3. Secure the guard firmly using the provided fasteners. Ensure it cannot rotate freely.

4.2 Attaching the Side Handle

1. The side handle can be attached to either side of the gear housing, or on top, depending on your working preference and comfort.
2. Thread the handle clockwise into the designated mounting hole until it is securely tightened.

4.3 Installing the Grinding/Cutting Disc

1. Ensure the grinder is unplugged.
2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Mount the appropriate 180 mm grinding or cutting disc onto the spindle, ensuring it sits flush against the inner flange.
5. Thread the outer flange (nut) onto the spindle and tighten it securely using the spanner wrench provided, while still holding the spindle lock button.
6. Release the spindle lock.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Turn On:** Connect the grinder to a 220V power supply. Engage the anti-misoperation switch, then press the main power switch.
- **To Turn Off:** Release the main power switch. The anti-misoperation switch will automatically reset.

5.2 Grinding and Cutting Techniques

Always allow the disc to reach full operating speed (8400 RPM) before making contact with the workpiece.



Image 5.1: Angle grinder in use for cutting metal.

- **Grinding:** Hold the grinder at a 15-30 degree angle to the workpiece. Apply moderate pressure and move the tool smoothly across the surface.
- **Cutting:** Hold the grinder at a 90-degree angle to the workpiece. Use a steady, even pressure, allowing the disc to cut through the material. Avoid twisting or bending the disc.

5.3 Safety During Operation

- Ensure the workpiece is securely clamped.
- Never operate the grinder without the wheel guard properly installed.
- Do not use damaged or incorrect discs.
- Be aware of sparks and debris; ensure no flammable materials are nearby.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your angle grinder.

6.1 Cleaning and Inspection

- Always unplug the tool before cleaning.
- Regularly clean the ventilation slots to prevent dust buildup, which can affect motor performance and lead to overheating.
- Inspect the power cord for any damage.
- Check the wheel guard and side handle for secure attachment and any signs of damage.

6.2 Disc Replacement

Replace grinding or cutting discs when they are worn down, chipped, or damaged. Follow the installation steps in Section 4.3.

6.3 Carbon Brush Inspection

The carbon brushes are wear items. If the motor performance decreases or excessive sparking occurs, have the 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
Grinder does not start	No power supply Faulty power cord/plug Anti-misoperation switch not engaged Internal electrical fault	Check power outlet and connections Inspect cord for damage; replace if necessary Ensure anti-misoperation switch is correctly engaged before pressing power switch Contact authorized service center
Excessive vibration	Damaged or unbalanced disc Loose flanges Worn bearings	Replace disc Tighten flanges securely Contact authorized service center
Reduced power or overheating	Blocked ventilation slots Worn carbon brushes Overloading the tool	Clean ventilation slots Have carbon brushes inspected/replaced Reduce pressure and allow the tool to cool

Problem	Possible Cause	Solution
Switch dust lock problem	Dust or debris obstructing the switch mechanism	Unplug the tool and carefully clean the switch area with compressed air. If the problem persists, contact service.

8. SPECIFICATIONS

Brand:

HIKOKI

Model Number:

G18MGAS9Z

Power Source:

Corded Electric

Voltage:

220 Volts

Wattage:

2600 Watts

Maximum Rotational Speed:

8400 RPM

Wheel Diameter:

180 mm

Product Dimensions (L x W x H):

48.8L x 10.8W x 13.5H Centimeters

Item Weight:

5800 Grams

Material:

Metal, Plastic

9. WHAT'S IN THE BOX

The HIKOKI G18MGAS9Z Angle Grinder package typically includes:

- 1 x Angle Grinder

Note: Accessories such as grinding/cutting discs and spanner wrench may be sold separately or included depending on the specific package. Please check your product packaging for a complete list of contents.

10. SUPPORT

For technical assistance, service, or warranty inquiries, please contact HIKOKI Power Tools India Pvt Ltd.

Manufacturer Contact Information:

Hikoki Power Tools India Pvt Ltd
No.11, old no.9A, 1st Main Road
KIADB Peenya 1st Stage
Bengaluru-560058

Please have your model number (G18MGAS9Z) and purchase details ready when contacting support.