Makita 9005B

Makita 9005B 5-Inch Angle Grinder Instruction Manual

Model: 9005B | Brand: Makita

1. Important Safety Information

Always read and understand all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including eye protection (safety glasses or goggles), hearing protection, and a face shield, when operating the angle grinder.
- **Work Area Safety:** Keep your 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:** Ensure the power cord is in good condition and avoid using the tool in wet conditions. Always disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Tool Handling:** Maintain a firm grip on the tool with both hands. Be aware of kickback, especially when the grinding wheel binds or gets caught.
- **Accessory Compatibility:** Only use accessories that are rated for the speed of the grinder and are designed for the specific task. Ensure the wheel guard is properly installed and adjusted.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

2. Product Overview

The Makita 9005B is a robust 5-inch angle grinder designed for high-production work. It features a powerful 9 amp motor and durable ball bearing construction for extended tool life. Its design prioritizes user control and reliability in demanding environments.

Key Features:

- Powerful 9 Amp Motor: Delivers 10,000 RPM for demanding applications.
- Lightweight Design: Weighs 6.6 lbs for reduced operator fatigue.
- Durable Construction: Features robust ball bearing construction for increased longevity.
- Spindle Lock: Allows for quick and easy accessory changes.
- AC/DC Lock-On Switch: Provides continuous operation (use with caution and proper safety measures).
- Standard Spindle: Equipped with a 5/8-inch - 11 UNC spindle.

- Double Insulated: Enhances user safety.

Included Components:

- 1 x Grinding Wheel
- 1 x Wheel Guard
- 1 x Side Handle (removable, can be installed on either side)
- 1 x Inner Flange
- 1 x Lock Nut
- 1 x Lock Nut Wrench
- 1 x Spindle Washer

Product Visuals:



Figure 2.1: Front view of the Makita 9005B 5-Inch Angle Grinder, showcasing its teal body and black side handle.



Figure 2.2: A user operating the Makita 9005B Angle Grinder on a metal workpiece, demonstrating its application in grinding tasks with sparks visible.



Figure 2.3: Diagram illustrating the dimensions of the Makita 9005B Angle Grinder, including length, width, and height measurements.

3. Setup and Assembly

1. **Attach Side Handle:** Screw the removable side handle into either side of the grinder's gear housing, depending on your preference for left or right-handed operation.
2. **Install Wheel Guard:** Position the wheel guard over the spindle and secure it. Ensure it is oriented to deflect sparks and debris away from you. The guard adjustment may require a screwdriver for proper tightening.

3. **Mount Grinding Wheel:**
    - Press the spindle lock button to prevent the spindle from rotating.
    - Place the inner flange onto the spindle.
    - Place the grinding wheel onto the inner flange, ensuring it sits flush.
    - Thread the lock nut onto the spindle and tighten it securely using the provided lock nut wrench.
    - Release the spindle lock.
4. **Power Connection:** Connect the grinder's power cord to a suitable 120V AC/DC power outlet.

4. Operating Instructions

The Makita 9005B is designed for heavy-duty grinding and cutting of metal. Its robust build allows for prolonged use, making it suitable for professional applications.

1. **Starting the Grinder:** To start the grinder, depress the trigger switch. For continuous operation, engage the lock-on switch.
2. **Stopping the Grinder:** To stop the grinder, release the trigger switch. If the lock-on switch is engaged, disengage it first. It is recommended to primarily use the trigger for immediate control and safety, especially in situations where the tool might lose control.
3. **Grinding Technique:** Apply steady, even pressure. Allow the tool's speed and weight to do the work. Avoid excessive force, which can lead to kickback or damage to the wheel and motor.
4. **Material Compatibility:** This grinder is highly effective for grinding and buffing metal. Ensure the correct type of grinding or cutting wheel is used for the specific material and task.
5. **Continuous Use:** The 9005B is built to withstand prolonged use, even for 10-12 hours a day. While the tool may become warm during extended operation, it is designed to resist burning out easily compared to other brands.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita 9005B Angle Grinder.

- **Brush Inspection:** Periodically inspect the carbon brushes for wear. Replace them when they are worn down to the limit mark to prevent motor damage.
- **Gear Head Lubrication:** To prevent the gear head from going bad, it is advisable to re-pack it with grease before it starts making unusual noises.
- **Cord Integrity:** Regularly check the power cord for any signs of damage, fraying, or separation. Replace or repair the cord if necessary to prevent electrical hazards.
- **General Cleaning:** Keep the tool's ventilation openings clean and free from dust and debris to ensure proper motor cooling.

6. Troubleshooting

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

Table 6.1: Common Troubleshooting Scenarios

Problem	Possible Cause	Solution
Tool not starting or intermittent operation	Worn carbon brushes; Damaged power cord; Faulty switch	Inspect and replace carbon brushes; Check power cord for damage and repair/replace; Inspect switch for proper function.
Excessive vibration or unusual noise from gear head	Lack of lubrication in gear head; Worn gears; Bent cutting wheel shaft	Re-pack gear head with appropriate grease; Inspect gears for wear and replace if necessary; Check cutting wheel shaft for bends.

Problem	Possible Cause	Solution
Tool overheating quickly	Blocked ventilation openings; Excessive load; Worn motor components	Clean all ventilation openings; Reduce applied pressure during operation; Consult a qualified service technician for internal inspection.

7. Specifications

Table 7.1: Makita 9005B Technical Specifications

Feature	Specification
Brand	Makita
Model	9005B
Power Source	Electric-powered
Voltage	120V
Wattage	1080 Watts
Maximum Rotational Speed	10000 RPM
Item Weight	6.6 Pounds
Product Dimensions (L x W x H)	13.8" x 5.7" x 4.7"
Material	Metal
Spindle Size	5/8-inch - 11 UNC

8. Warranty and Support

The Makita 9005B 5-Inch Angle Grinder comes with a **1 Year Limited Warranty**. For warranty claims, technical support, or service inquiries, please refer to the official Makita website or contact their customer service department.
You can also find additional support and resources by visiting the Makita Store on Amazon.

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