DEWALT DWE494-QS

DeWalt DWE494 Angle Grinder User Manual

Model: DWE494-QS

Introduction

This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of your DeWalt DWE494 Angle Grinder. This powerful tool is designed for various cutting, grinding, and roughing tasks, featuring a 2,200 W motor and a 230 mm disc diameter. Please read this manual thoroughly before initial use to ensure proper handling and to maximize the lifespan of your tool.

Safety Information

Always adhere to the following safety precautions to prevent injury and damage to the tool:

- **Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Hearing Protection:** Use ear protection during extended operation.
- **Hand Protection:** Wear heavy-duty work gloves to protect hands from sparks and debris.
- **Work Area:** Ensure your work area is clean, well-lit, and free of clutter. Keep bystanders away.
- **Power Source:** Connect the tool to a power source with the correct voltage as specified on the nameplate.
- **Secure Workpiece:** Always secure the workpiece firmly to prevent movement during operation.
- **Proper Grip:** Maintain a firm grip on the tool with both hands, especially when starting and stopping.
- **Disc Selection:** Use only discs rated for the grinder's maximum RPM and suitable for the material being worked on.
- **Protective Cover:** Ensure the protective cover is correctly installed and adjusted before use.
- **Soft Start:** The electronic soft start feature prevents sudden jerking upon startup.
- **Zero Voltage Switch:** This feature prevents accidental startup after a power failure. Do not bypass this safety mechanism.

Components and Included Accessories

Your DeWalt DWE494 Angle Grinder package includes the following items:

- 1 x DeWalt DWE494 Angle Grinder
- 1 x Protective Cover
- 1 x 2-Position Additional Handle

- 1 x Clamping Flange
- 1 x Clamping Nut
- 1 x Mounting Tool (Spanner)



Image of the DeWalt DWE494 Angle Grinder, showing its yellow body, silver gear housing, black additional handle, and protective disc cover. The power cord extends from the rear of the tool.

Setup

1. **Attach Additional Handle:** Screw the 2-position additional handle into one of the threaded holes on the gear housing. Ensure it is tightened securely.
2. **Install Protective Cover:** Loosen the clamping screw on the protective cover. Place the cover over the spindle collar and adjust its position to shield against sparks and debris. Tighten the clamping screw firmly.
3. **Mount Grinding/Cutting Disc:**
    - Place the inner clamping flange onto the spindle.
    - Position the grinding or cutting disc onto the inner flange, ensuring it sits flat.
    - Screw the clamping nut onto the spindle.
    - Press the spindle lock button and use the provided mounting tool (spanner) to tighten the clamping nut securely. Release the spindle lock.
4. **Power Connection:** Ensure the tool's switch is in the OFF position before plugging the power cord into a suitable electrical outlet.

Operating Instructions

1. **Starting the Tool:** Press the ON/OFF switch. The electronic soft start will ensure a smooth power-up. For continuous operation, engage the lockable switch.
2. **Stopping the Tool:** Release the ON/OFF switch. If the lockable switch is engaged, press the switch again to disengage it and stop the tool.
3. **Grinding:** Hold the grinder firmly with both hands. Allow the disc to reach full speed before making contact with the

workpiece. Apply even, moderate pressure. Do not force the tool.

4. **Cutting:** For cutting, use a thin cutting disc. Hold the grinder at a 90-degree angle to the workpiece. Make shallow passes, allowing the disc to do the work. Avoid twisting or binding the disc.
5. **Roughing:** Use appropriate roughing discs. Maintain a consistent angle and pressure for effective material removal.
6. **Overload Protection:** If the tool becomes overloaded, it may slow down or stop. Reduce pressure and allow the tool to recover.

Maintenance

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

- **Cleaning:** Regularly clean the ventilation slots to prevent overheating. Use a soft brush or compressed air.
- **Disc Inspection:** Before each use, inspect the grinding/cutting disc for cracks, chips, or wear. Replace damaged discs immediately.
- **Carbon Brushes:** The motor's epoxy resin armored winding protects it from abrasive dust. However, periodically check carbon brushes (if applicable to your model) and replace them when worn to their limit. Refer to a qualified service technician for this.
- **Cord Inspection:** Check the power cord for any damage. Do not use the tool with a damaged cord.
- **Storage:** Store the tool in a dry, secure place, out of reach of children.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	No power supply; Zero voltage switch activated; Damaged cord/switch	Check power outlet; Reset power; Inspect cord/switch, seek professional repair if damaged.
Tool loses power or slows down during use	Overload; Worn carbon brushes (if applicable); Blocked ventilation	Reduce pressure; Check/replace carbon brushes; Clean ventilation slots.
Excessive vibration	Improperly mounted disc; Damaged disc; Loose handle	Re-mount disc correctly; Replace damaged disc; Tighten additional handle.
Sparks from motor housing	Normal during operation; Worn carbon brushes (if excessive)	Normal operation; If excessive, consult service for brush inspection.

Specifications

Feature	Specification
Model Number	DWE494-QS
Brand	DEWALT
Power Source	Corded Electric
Wattage	2200 watts
Voltage	18 Volts

Feature	Specification
Disc Diameter	230 mm
Maximum Rotational Speed	6600 min-1 (6.6 RPM as per provided data, typically 6600 RPM for angle grinders)
Item Weight	6.32 Kilograms
Product Dimensions	56L x 20.3W x 12.5H centimeters
Material	Epoxy resin (motor winding)
Color	Yellow; Black

Warranty and Support

Specific warranty details for the DeWalt DWE494 Angle Grinder are typically provided at the point of purchase or within separate warranty documentation included with the product. For technical support, service, or to inquire about warranty claims, please contact your authorized DeWalt service center or the retailer from whom the product was purchased. Always provide the model number (DWE494-QS) and serial number (if applicable) when seeking support.

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