DEWALT DWE492

DEWALT DWE492 2200W 230mm Heavy Duty Large Angle Grinder User Manual

Model: DWE492

1. Introduction and Overview

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your DEWALT DWE492 2200W 230mm Heavy Duty Large Angle Grinder. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury.

Key Features:

- Powerful 2200W motor for demanding applications.
- High rotational speed of 6600 RPM for efficient material removal.
- Designed for 230mm diameter grinding and cutting wheels.
- Equipped with a new trigger switch featuring both lock-off and lock-on systems for enhanced control and safety.
- Improved motor design with increased coil surface area for reduced operating temperature and lighter weight.
- New gear case with enlarged vent for better heat dissipation.
- Cut-off brushes for easy replacement, extending tool lifespan.



Figure 1: Main view of the DEWALT DWE492 Angle Grinder.

2. General Safety Instructions

Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

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.
- Keep children and bystanders away while operating a power tool.

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.
- Do not expose power tools to rain or wet conditions.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool.

Personal Safety:

- Always wear eye protection (safety glasses or goggles) and hearing protection.
- Wear appropriate personal protective equipment (PPE) such as gloves, dust mask, and sturdy footwear.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Do not overreach. Maintain proper footing and balance at all times.

3. Package Contents

Upon unpacking your DEWALT DWE492 Angle Grinder, ensure all items are present and undamaged. If any parts are missing or damaged, contact your dealer immediately.

- 1 x DEWALT DWE492 Angle Grinder
- 1 x Side Handle
- 1 x Wheel Guard
- 1 x Inner and Outer Flange
- 1 x Spanner Wrench



Figure 2: Packaging for the DEWALT DWE492 Angle Grinder.

4. Setup

4.1 Attaching the Side Handle

1. Ensure the grinder is unplugged from the power source.
2. Screw the side handle into one of the threaded holes on the gear housing. The handle can be positioned on either side for left or right-handed operation.
3. Tighten securely.



Figure 3: Angle grinder with the side handle attached for improved control.

4.2 Adjusting the Wheel Guard

1. The wheel guard is designed to protect the user from sparks and debris.
2. Loosen the guard clamping screw.
3. Rotate the guard to the desired position to provide maximum protection for the specific application.
4. Tighten the clamping screw firmly to secure the guard.



Figure 4: Top view of the angle grinder showing the adjustable wheel guard.

4.3 Installing Grinding/Cutting Wheels

Always use wheels rated for the grinder's maximum RPM and appropriate for the material being worked on.

1. Ensure the grinder is unplugged.
2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Position the grinding or cutting wheel onto the inner flange, ensuring it sits flat.
5. Thread the outer flange onto the spindle and tighten it firmly using the provided spanner wrench. Release the spindle lock.

5. Operating Instructions

5.1 Powering On/Off

- **To Turn On:** Press the trigger switch. For continuous operation, press the trigger switch and then engage the lock-on button.
- **To Turn Off:** Release the trigger switch. If locked on, press the trigger switch again to release the lock-on button.



Figure 5: Detail of the trigger switch with lock-on/lock-off mechanism.

5.2 Proper Handling and Grip

Always hold the grinder firmly with both hands, one on the main handle and one on the side handle, to maintain control during operation.



Figure 6: Correct two-hand grip for operating the angle grinder.

5.3 Application Guidelines

The DEWALT DWE492 is suitable for various applications including polishing, finishing, grinding, and cutting. Refer to the application chart below for material compatibility and recommended power levels.



Figure 7: Application chart detailing material compatibility for polishing, grinding, and cutting tasks.

Grinding:

Apply light, even pressure. Allow the tool's speed to do the work. Avoid excessive pressure, which can cause kickback or damage the wheel.

Cutting:

Use a cutting wheel and ensure the workpiece is securely clamped. Make straight, controlled cuts. Do not twist or bind the cutting wheel in the workpiece.



Figure 8: Demonstrating cutting metal rebar with the angle grinder.



Figure 9: Demonstrating cutting a concrete block with the angle grinder.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool. Always unplug the grinder before performing any maintenance.

6.1 Cleaning

- Keep the ventilation openings clear to prevent overheating.
- Regularly clean the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Blow out dust and debris from the motor housing using compressed air periodically.

6.2 Carbon Brush Replacement

The DWE492 features cut-off brushes that are designed for easy replacement. When the brushes wear down, the tool may stop operating or show reduced performance. Replace both brushes at the same time.

1. Unplug the tool.
2. Locate the brush caps on the sides of the motor housing.
3. Unscrew the brush caps using a screwdriver.
4. Remove the old carbon brushes.
5. Insert new DEWALT genuine carbon brushes, ensuring they slide in freely.
6. Replace and tighten the brush caps securely.

6.3 General Inspection

- Inspect the power cord for damage before each use.
- Check the wheel guard and side handle for secure attachment.
- Ensure the spindle lock operates smoothly.

7. Troubleshooting

If your DEWALT DWE492 Angle Grinder experiences issues, refer to the following common troubleshooting steps. For problems not listed here, contact DEWALT service personnel.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Worn carbon brushes; Faulty switch	Check power connection; Replace carbon brushes; Contact service center
Reduced power/speed	Worn carbon brushes; Overload; Dirty motor vents	Replace carbon brushes; Reduce load; Clean motor vents
Excessive sparking	Worn carbon brushes; Commutator issue	Replace carbon brushes; Contact service center
Tool overheats	Blocked ventilation; Continuous heavy load	Clean vents; Allow tool to cool; Reduce load

8. Specifications

Technical specifications for the DEWALT DWE492 Angle Grinder:

Feature	Specification
Brand	DEWALT
Model Number	DWE492
Power Source	Corded Electric

Feature	Specification
Wattage	2200 Watts
Voltage	240 Volts
Maximum Rotational Speed	6600 RPM
Disc Diameter	230 mm
Material	Metal, Plastic
Item Weight	300 Grams (Note: This weight seems unusually low for a heavy-duty angle grinder and might be a data entry error. Refer to product packaging for accurate weight.)
Product Dimensions (LxWxH)	30 x 8 x 15 cm
Country of Origin	India



Figure 10: Product label displaying key specifications directly on the tool.

9. Warranty Information

The DEWALT DWE492 Angle Grinder comes with a**2-year warranty** provided by the manufacturer from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For full warranty terms and conditions, please refer to the official DEWALT warranty documentation included with your product or visit the official DEWALT website.

10. Support and Service

For technical assistance, service, or to locate an authorized service center, please contact DEWALT directly.

- **Manufacturer:** DEWALT, GAT NO. 135, 137 & 157, PO Mahalunge Talukha - Khed Pune 410501, India.
- **Contact Number:** 1860-425-1111
- **Website:** www.dewalt.com

When contacting support, please have your product model number (DWE492) and date of purchase available.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question