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DEWALT DWE4579

DEWALT DWE4579 2600W 230mm Heavy Duty Angle Grinder Instruction Manual

Model: DWE4579

1. Important Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Read all instructions before operating this product.

General Power Tool Safety Warnings

- **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:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **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.

Specific Angle Grinder Safety Warnings

- The guard must be securely attached and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.
- Always use the auxiliary handle. Loss of control can result in personal injury.
- Never place your hand near the rotating accessory.
- Do not use cutting-off wheels for grinding.
- Do not use damaged wheels. Inspect wheels before each use.
- Maintain a firm grip on the tool.

2. Product Overview

The DEWALT DWE4579 is a heavy-duty 2600 Watt angle grinder designed for demanding grinding and cutting applications. It features a 230mm wheel diameter and operates at 220 Volts, suitable for regions with Indian plug standards. This tool incorporates several safety and performance features to enhance user experience and durability.



Image 1: Overall view of the DEWALT DWE4579 Angle Grinder, showcasing its robust design and yellow and black color scheme.

Key Features

- **Power:** 2600 Watt motor for heavy-duty applications.
- **Wheel Diameter:** 230 mm (9 inches).
- **No Load Speed:** 8500 RPM.
- **Spindle Thread:** M14.
- **Switch Type:** Trigger switch for controlled operation.
- **E-Clutch System:** Automatically shuts off the tool when a wheel pinch is detected, preventing kickback.
- **Anti-Vibration Side Handle:** Reduces user exposure to vibration for improved comfort and control.
- **Dust Ejection System:** Designed to remove dust and debris from the air intake, extending brush life and preventing contamination.
- **Power-Loss Reset:** Prevents accidental restarts after a power disruption when the tool is left in the 'on' position.

3. Setup

Unpacking

Carefully remove the angle grinder and all accessories from the packaging. Inspect the tool for any damage that may have occurred during shipping. Do not discard packaging until you are sure all components are present and in good condition.



Image 2: The product packaging for the DEWALT DWE4579 Angle Grinder.

Attaching the Side Handle

The side handle can be installed on either side of the gear case for left or right-handed operation. Screw the side

handle firmly into the desired threaded hole on the gear case. Ensure it is tightened securely before use to maintain control and reduce vibration.



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

Attaching and Adjusting the Guard

The guard is crucial for operator safety. Ensure it is correctly installed and adjusted to deflect sparks and debris away from you. The guard can be rotated to the desired position by loosening the clamping screw, adjusting, and then re-tightening.



Image 4: Close-up view of the protective guard and spindle assembly on the angle grinder.

Installing Grinding/Cutting Wheels

1. Ensure the tool is unplugged from the power source.
2. Press the spindle lock button to prevent the spindle from rotating.
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 securely using the spanner wrench provided.
6. Release the spindle lock.

4. Operating Instructions

Powering On/Off

To turn the tool ON, depress the trigger switch. To turn the tool OFF, release the trigger switch. The DWE4579 features a Power-Loss Reset function, which prevents accidental restarts after a power interruption. If power is lost while the tool is running, it will not restart automatically when power is restored; you must release and re-engage the trigger switch.



Image 5: Close-up of the tool's body, showing ventilation grilles and the trigger switch area.

Grinding and Cutting Techniques

Always hold the grinder firmly with both hands. Position the workpiece securely. For grinding, apply light, even pressure, allowing the tool to do the work. For cutting, use a cutting wheel and make shallow passes, gradually increasing depth. Avoid excessive pressure, which can cause kickback or damage the wheel.



Image 6: A user demonstrating the angle grinder in use, cutting a concrete block, wearing appropriate safety gear.

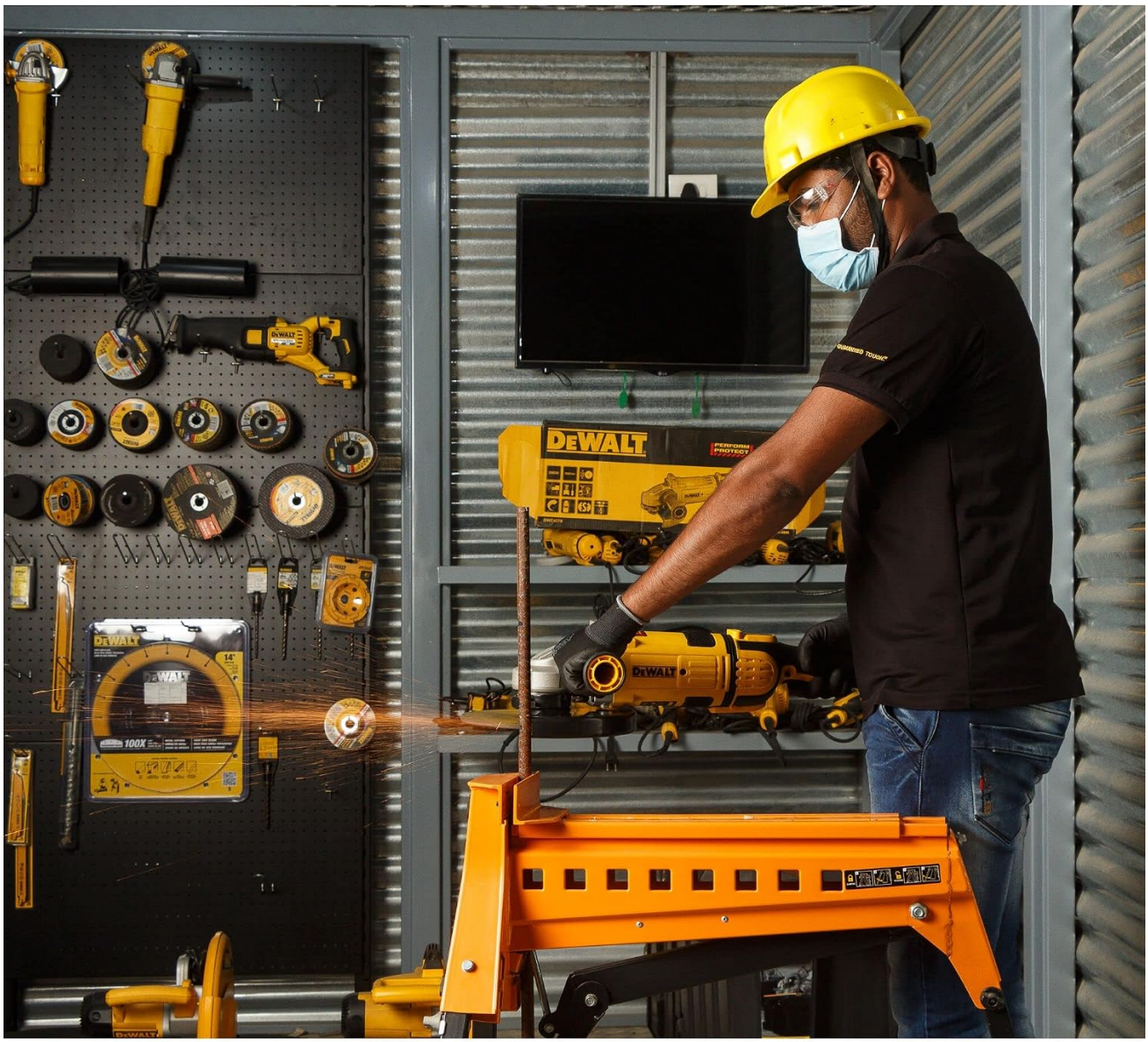


Image 7: Another view of the angle grinder in operation, producing sparks during a cutting task.

E-Clutch System

The E-Clutch System is a safety feature designed to protect the user from kickback. If the wheel binds or pinches in the material, the E-Clutch will detect the sudden increase in torque and automatically shut off the motor. This helps prevent the tool from violently twisting out of the user's hands. If the E-Clutch activates, release the trigger, clear the obstruction, and then restart the tool.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your DEWALT DWE4579 angle grinder. Always disconnect the tool from the power source before performing any maintenance.

Cleaning

The Dust Ejection System helps to keep the motor free of debris. However, it is still important to regularly clean the tool's ventilation openings with compressed air. Do not use solvents or harsh chemicals, as these can damage plastic parts.

Brush Life

The Dust Ejection System is designed to increase brush life by preventing dust buildup. When the carbon brushes wear down, the tool's performance may decrease. Refer to an authorized service center for brush inspection and

replacement.

General Inspection

Periodically inspect the power cord for damage. Check all screws and fasteners for tightness. Ensure the guard is securely attached and functional. If any part is damaged, have it repaired by a qualified service technician before further use.

6. Troubleshooting

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

Tool Does Not Start

- **Check Power Supply:** Ensure the tool is properly plugged into a functional 220 Volt outlet.
- **Power-Loss Reset:** If there was a power interruption, ensure you have released and re-engaged the trigger switch.
- **Internal Fault:** If the above steps do not resolve the issue, there may be an internal electrical fault. Do not attempt to repair; contact an authorized service center.

Tool Stops During Operation (E-Clutch Activation)

- **Wheel Pinch:** The E-Clutch system has detected a wheel pinch or bind. Release the trigger switch immediately.
- **Clear Obstruction:** Carefully remove the tool from the workpiece and clear any material that caused the wheel to bind.
- **Restart:** Re-engage the trigger switch to restart the tool. Apply less pressure or adjust your technique to prevent future binding.

Excessive Vibration

- **Wheel Condition:** Inspect the grinding/cutting wheel for damage, cracks, or imbalance. Replace if necessary.
- **Flange Tightness:** Ensure the inner and outer flanges are securely tightened.
- **Side Handle:** Verify the anti-vibration side handle is firmly attached.

7. Specifications

Specification	Value
Brand	DEWALT
Model Number	DWE4579
Power Source	Corded Electric
Voltage	230 Volts
Wattage	2600 Watts
Wheel Diameter	230 mm
Maximum Rotational Speed	8500 RPM

Specification	Value
Spindle Thread	M14
Item Weight	5.4 Kg (approx. 11.9 lbs)
Product Dimensions	24.02 x 9.84 x 5.12 inches
Sound Level	107 dB
Special Features	E-Clutch System, Anti-Vibration Side Handle, Dust Ejection System, Power-Loss Reset

8. Warranty and Support

DEWALT products are manufactured to high-quality standards and are rigorously tested. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.

For technical assistance, service, or to locate an authorized service center, please contact DEWALT customer support through their official channels. Always use genuine DEWALT replacement parts to ensure product integrity and safety.

Online Support: www.dewalt.com/support

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