DEWALT DWE4012

DEWALT DWE4012 4-1/2-Inch Paddle Switch Angle Grinder Tool

User Instruction Manual

Introduction Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction and Safety Information

This manual provides essential information for the safe operation, maintenance, and setup of your DEWALT DWE4012 Angle Grinder Tool. Please read and understand all instructions before use to prevent electric shock, fire, and/or serious injury.

Safety Warnings:

- Always wear appropriate personal protective equipment (PPE) including ANSI Z87.1 compliant eye protection, hearing protection, and heavy-duty gloves.
- Ensure the tool is disconnected from the power source before making any adjustments, changing accessories, or performing maintenance.
- Keep 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.
- Maintain a firm grip on the tool with both hands during operation.

For comprehensive safety guidelines, refer to the full PDF user manual provided by DEWALT.



Image 1.1: Overview of the DEWALT DWE4012 Angle Grinder Tool, showing its yellow and black housing, side handle, and grinding wheel.

2. Setup and Assembly

2.1 Unpacking

Carefully remove the angle grinder and all accessories from the packaging. Verify that all components listed in the 'Included Components' section (Depressed center wheel, One-Touch Guard, Hex Wrench, 2-position side handle) are present and undamaged.

2.2 Side Handle Installation

The 2-position removable side handle can be installed on either side of the gear case for optimal comfort and control. Thread the handle clockwise into the desired mounting hole until it is securely tightened. Ensure it is firm before operating the tool.



Image 2.1: Side view of the DEWALT DWE4012 Angle Grinder, highlighting the attachment point for the side handle.

2.3 Guard Adjustment

The One-Touch Guard allows for quick adjustment without the need for additional tools. Simply rotate the guard to the desired position to protect against sparks and debris during operation. Always ensure the guard is securely positioned and covers the maximum possible area of the wheel before starting the tool.

2.4 Wheel Installation and Removal

To install or remove a grinding or cutting wheel:

1. Disconnect the tool from the power source.
2. Press and hold the spindle lock button.
3. Use the provided hex wrench to loosen the outer flange nut counter-clockwise. The Quick-Change wheel release also allows for tool-free wheel removal.
4. Remove the old wheel and clean the flanges.
5. Place the new wheel onto the inner flange, ensuring it is centered.
6. Thread the outer flange nut clockwise and tighten it firmly with the hex wrench while holding the spindle lock button. Do not overtighten.



Image 2.2: Close-up view of the grinding wheel and adjustable guard on the DEWALT DWE4012 Angle Grinder, illustrating the area for wheel installation.

3. Operating Instructions

3.1 Powering On/Off

The DWE4012 features a paddle switch for operation. To turn the tool on, depress the paddle switch fully. To turn it off, release the paddle switch. Always maintain a firm grip on the tool with both hands during operation.

3.2 General Usage

This 7-amp motor angle grinder is designed for fast material removal and operates at 12,000 RPM. When grinding or cutting, apply steady, even pressure. Avoid excessive force, which can lead to motor overload, kickback, or damage to the

workpiece. Allow the tool to reach full speed before contacting the workpiece.
The tool is powered by AC/DC current, providing versatility for various power sources.



Image 3.1: Angled view of the DEWALT DWE4012 Angle Grinder, demonstrating its compact design suitable for various operating positions.

4. Maintenance

4.1 Cleaning

Regularly clean the tool's air vents to prevent dust and debris buildup, which can lead to overheating. Use a dry cloth to wipe down the exterior of the tool. Do not use solvents, harsh chemicals, or abrasive cleaners, as these can damage plastic parts.

4.2 Inspection

Before each use, inspect the power cord for any signs of damage (cuts, fraying). Check the guard for proper function and ensure it is securely attached. Inspect the grinding wheel for wear, cracks, or damage. Replace worn or damaged accessories immediately to ensure safe operation.

4.3 Service

For any repairs, internal maintenance, or replacement of electrical components, contact an authorized DEWALT service center. Unauthorized repairs can void the warranty and pose significant safety risks to the user.

5. Troubleshooting

This section addresses common issues you might encounter with your DEWALT DWE4012 Angle Grinder.

Problem	Possible Cause	Solution

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Tool does not start	Not plugged in; faulty power outlet; damaged cord; paddle switch not fully depressed.	Ensure tool is properly plugged in. Test outlet with another device. Inspect power cord for damage. Fully depress the paddle switch.
Reduced performance / Lack of power	Worn or damaged grinding wheel; motor overload; incorrect accessory for task.	Inspect and replace grinding wheel if worn or damaged. Reduce pressure on the tool. Ensure appropriate accessory is used.
Excessive vibration	Improperly installed wheel; damaged or unbalanced wheel.	Ensure the grinding wheel is correctly installed and tightened. Replace the wheel if it is damaged or unbalanced.
Tool overheats	Blocked air vents; continuous heavy use.	Clean air vents regularly. Allow the tool to cool down during prolonged use. Avoid excessive pressure.

6. Product Specifications

The following table details the technical specifications for the DEWALT DWE4012 Angle Grinder Tool:

Feature	Specification
Brand	DEWALT
Model Number	DWE4012
Power Source	Corded Electric (AC/DC)
Motor	7.5 Amp
Maximum Rotational Speed	12,000 RPM
Wheel Diameter	4-1/2 inches (115 mm)
Spindle Thread	5/8-inch 11
Voltage	120V
Wattage	840 Watts
Item Weight	1 pound (16 ounces)
Product Dimensions	15.4"L x 4.6"W x 6.1"H
Special Features	Compact, Lightweight, One-Touch Guard, Quick-Change Wheel Release
Included Components	Depressed center wheel, One-Touch Guard, Hex Wrench, 2-position side handle

7. Warranty and Support

7.1 Warranty Information

This DEWALT DWE4012 Angle Grinder Tool is covered by a 3-year limited warranty. For detailed warranty terms and

conditions, including limitations and exclusions, please refer to the official DEWALT warranty documentation that came with your product or visit the official DEWALT website.

7.2 Customer Support

For comprehensive safety information, detailed operating instructions, and parts diagrams, please refer to the official User Manual (PDF) available online: DEWALT DWE4012 User Manual (PDF).
For further assistance, product registration, to locate a service center, or to explore other DEWALT products, visit the official DEWALT website: Visit the DEWALT Store.

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