DEWALT DWE6401DS

DEWALT Rotary Sander DWE6401DS Instruction Manual

Model: DWE6401DS

Product Overview

Key Features

- 6 amp motor delivers performance in high torque sanding applications to speed up the sanding process.
- 0 - 3,700 OPM variable speed trigger dial provides versatility in a wide array of sanding applications.
- Adjustable dust shroud can be connected to vacuum to provide improved working environment.
- Mid-handle design with soft grip and side handle provides increased balance and relieves user fatigue.
- Accepts 5" 8-hole hook & loop paper, allowing for readily available paper to be changed quickly and easily.

Product Description

The DWE6041DS 5 inch VS Disc Sander with Dust Shroud delivers performance in high torque sanding applications with a 6 Amp motor to shorten sanding process. Mid-handle design with soft grip and side handle provides increased balance and relieves user fatigue. Option to connect dust shroud to vacuum collection improves work environment.



Figure 1: DEWALT DWE6401DS Rotary Sander with dust shroud and side handle.

Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools.

General Power Tool Safety Warnings

- **Work Area Safety:** 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.

- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Always wear eye protection. Use hearing protection when operating for extended periods.

Sander Specific Safety Warnings

- Always wear appropriate respiratory protection when sanding, especially when sanding materials that produce fine dust.
- Secure the workpiece. A workpiece clamped by a clamping device or in a vise is held more secure than by hand.
- 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.

Setup

Unpacking

Carefully remove the sander and all accessories from the packaging. Inspect the contents for any damage. Retain the packaging for future storage or transport.



Figure 2: The sander shown with its included side handle and wrench.

Attaching the Side Handle

1. Locate the threaded hole on the side of the sander's gear housing.
2. Screw the side handle clockwise into the threaded hole until it is securely fastened.

3. Adjust the handle to a comfortable position for optimal control and balance during operation.

Installing Sanding Discs

1. Ensure the sander is unplugged from the power source.
2. Align the 8-hole pattern of the 5-inch hook & loop sanding disc with the sanding pad on the tool.
3. Press the sanding disc firmly onto the pad to ensure it adheres securely.



Figure 3: The 5-inch 8-hole hook & loop sanding pad.

Operating Instructions

Powering On/Off

1. Connect the sander to a 120V power outlet.
2. To turn the sander ON, depress the trigger switch.
3. To turn the sander OFF, release the trigger switch.

Variable Speed Control

The sander features a variable speed trigger dial, allowing adjustment of the OPM (Orbits Per Minute) from 0 to 3,700. Rotate the dial to select the desired speed for your application. Lower speeds are suitable for delicate work, while higher speeds are for aggressive material removal.



Figure 4: The variable speed trigger and mid-handle design for enhanced control.

Sanding Techniques

- Always start the sander before placing it on the workpiece.
- Apply light, even pressure. Let the sander do the work. Excessive pressure can reduce efficiency and damage the workpiece or tool.
- Move the sander in overlapping passes across the surface.
- For best results, sand with the grain of the wood.

Dust Collection

The adjustable dust shroud can be connected to a vacuum system (not included) to improve the working environment by collecting sanding dust. Ensure the dust shroud is properly attached to the sander and the vacuum hose is securely connected to the shroud's port.

Maintenance

Cleaning

Regularly clean the tool's ventilation openings to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.

Pad Replacement

Over time, the hook & loop pad may wear out, reducing its ability to hold sanding discs. To replace the pad, remove the screws securing it to the sander, detach the old pad, and install a new one, ensuring the screws are tightened securely.

Storage

Store the sander in a clean, dry place, out of reach of children. Disconnect it from the power source before storing.

Troubleshooting

Problem	Possible Cause	Solution
Sander does not start.	No power supply.	Check power cord, outlet, and circuit breaker.
Excessive vibration.	Sanding disc improperly attached or damaged.	Re-attach or replace sanding disc.
Poor sanding performance.	Worn sanding disc or pad.	Replace sanding disc or sanding pad.
Excessive dust.	Dust shroud not connected or clogged.	Connect to vacuum, clear any clogs.

Specifications

Specification	Value
Brand	DEWALT
Model Number	DWE6401DS
Voltage	120 Volts
AC Adapter Current	6 Amps
Maximum Rotational Speed	3700 RPM
Disc Diameter	5 inches
Item Weight	4.81 Pounds

Specification	Value
Product Dimensions	9.9"L x 8.2"W x 4.6"H

Warranty and Support

Warranty Information

This DEWALT DWE6401DS Rotary Sander is covered by a **3 Year Limited Warranty**. Please refer to the official DEWALT warranty policy for full details regarding coverage, limitations, and how to make a claim.

Customer Support

For technical assistance, service, or to order replacement parts, please visit the official DEWALT website or contact their customer support line. Keep your purchase receipt and product model number handy for faster service.

© 2023 DEWALT. All rights reserved.

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