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DEWALT DWE300

DEWALT DWE300 650W Variable Speed Orbital Jigsaw User Manual

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT DWE300 650W Variable Speed Orbital Jigsaw. Please read these instructions thoroughly before using the tool to ensure proper function and to prevent injury.

2. Safety Instructions

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury.

- **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 hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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.
- **Jigsaw Specific Safety:** Hold the tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.

3. Product Overview

The DEWALT DWE300 is a 650W variable speed orbital jigsaw designed for precise cutting in various materials, including wood. Key features include a variable speed dial, 4-position orbital action, and a keyless bevel adjustment.



Figure 1: Front view of the DEWALT DWE300 Jigsaw, highlighting its compact design and main components.



Figure 2: Rear view of the DEWALT DWE300 Jigsaw, displaying the model number and power specifications.

Components and Controls:

- **Variable Speed Dial:** Located on the trigger, this dial allows adjustment of the cutting speed across 6 positions for optimal control based on material and application.
- **Orbital Action Lever:** Provides 4 settings to control the aggressiveness of the blade's orbital motion, suitable for different cutting speeds and finishes.
- **Keyless Bevel Adjustment:** Allows for quick and easy adjustment of the shoe plate for bevel cuts up to 45 degrees without requiring additional tools.
- **Rubberized Grip:** Designed for enhanced comfort and firm handling during extended use.
- **Lock-on Button:** Engages continuous operation, reducing user fatigue during prolonged cutting tasks.

4. Setup

4.1 Blade Installation

1. Ensure the jigsaw is unplugged from the power source.
2. Locate the blade clamp mechanism.
3. Insert the blade into the clamp with the teeth facing forward.
4. Ensure the blade is fully seated and securely locked in place. Gently pull on the blade to confirm it is secure.

4.2 Bevel Adjustment

The DWE300 features a keyless bevel adjustment for angled cuts.

1. Unplug the tool.
2. Locate the bevel adjustment lever or knob beneath the shoe plate.
3. Loosen the mechanism to allow the shoe plate to pivot.
4. Adjust the shoe plate to the desired angle, up to 45 degrees. Use the angle markings for reference.
5. Securely tighten the adjustment mechanism to lock the shoe plate in position.

5. Operating Instructions

5.1 Powering On/Off

- To turn on, press the trigger switch.
- For continuous operation, press the lock-on button while the trigger is depressed. Release the trigger to disengage the lock-on feature.
- To turn off, release the trigger switch. If the lock-on button is engaged, press and release the trigger to turn off the tool.

5.2 Variable Speed Control

The variable speed dial allows you to match the cutting speed to the material and blade type. Higher speeds are generally for softer materials and faster cuts, while lower speeds are for harder materials, intricate cuts, or when greater control is needed.

- Rotate the speed dial to select one of the 6 available speed settings.
- Experiment with different settings on scrap material to find the optimal speed for your task.

5.3 Orbital Action Settings

The 4-position orbital action lever controls the blade's forward motion during the cutting stroke. This feature can significantly increase cutting speed but may result in a rougher cut.



Figure 3: Close-up of the DEWALT DWE300 Jigsaw, illustrating the orbital action lever for adjusting blade movement.

- **Position 0 (No Orbital Action):** For fine, precise cuts in wood, plastic, and metal.
- **Positions 1-3 (Increasing Orbital Action):** For faster, more aggressive cuts in wood and other soft materials. Higher settings provide faster cutting but may produce a rougher edge.

5.4 Cutting Techniques

- **Straight Cuts:** Use a straight edge guide for accuracy. Ensure the shoe plate is flat against the workpiece.
- **Curved Cuts:** Use a narrow blade for tight curves. Guide the saw smoothly along the marked line.
- **Bevel Cuts:** Adjust the shoe plate to the desired angle (up to 45°). Maintain firm contact between the shoe plate and the workpiece.
- **Plunge Cuts:** For internal cuts without a pilot hole, tilt the saw forward so the front edge of the shoe rests on the workpiece. Start the saw and slowly lower the blade into the material.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your jigsaw.

- **Cleaning:** Keep the tool's ventilation openings clear and free of debris. Use a soft brush or compressed air to clean dust from the motor housing.
- **Blade Replacement:** Replace dull or damaged blades promptly. Always unplug the tool before changing blades.
- **Cord Inspection:** Regularly inspect the power cord for damage. Do not use the tool if the cord is frayed or cut.
- **Lubrication:** This tool is factory lubricated and does not require additional lubrication.

7. Troubleshooting

If your DEWALT DWE300 Jigsaw is not functioning correctly, consult the following table for common issues and solutions.

Problem	Possible Cause	Solution
Tool does not start	No power supply; damaged cord; faulty switch	Check power outlet and cord; contact authorized service center if switch is faulty.
Blade not cutting efficiently	Dull or incorrect blade; incorrect speed/orbital setting	Replace blade; select appropriate speed and orbital action for the material.
Excessive vibration	Loose blade; damaged blade; worn internal components	Ensure blade is securely clamped; replace blade; contact service center for inspection.
Smoke or burning smell	Overloading; motor issue; cutting wrong material	Stop operation immediately; allow tool to cool; ensure proper blade and technique; contact service center.

8. Specifications

Specification	Value
Model Number	DWE300
Power Input	650W
Power Source	Corded Electric
Orbital Action	4 Positions
Bevel Capacity	0-45 degrees (Keyless)
Weight	2.88 kg
Dimensions (L x W x H)	81.94 x 23.22 x 59.99 cm
Material	Metal

9. Warranty and Support

DEWALT products are manufactured to high-quality standards. For information regarding warranty coverage, service, or

technical support, please refer to the warranty card included with your product or visit the official DEWALT website. Keep your proof of purchase for any warranty claims.

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