DEWALT DW317

DEWALT DW317 Variable Speed 5.5-Amp Corded Jigsaw Instruction Manual

Model: DW317

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT DW317 Variable Speed 5.5-Amp Corded Jigsaw. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury. Keep this manual for future reference.



Figure 1: DEWALT DW317 Variable Speed 5.5-Amp Corded Jigsaw.

2. Important Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Failure to follow these instructions may result in serious injury.

- **Read All Instructions:** Familiarize yourself with the tool's controls and proper usage.
- **Wear Eye Protection:** Always wear safety glasses or goggles that comply with applicable standards.
- **Secure Workpiece:** Clamp or otherwise secure the workpiece to a stable platform. Holding the workpiece by hand or against your body is unstable and may lead to loss of control.
- **Keep Work Area Clean:** Cluttered areas and benches invite accidents.
- **Avoid Dangerous Environments:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Stay Alert:** Watch what you are doing, use common sense. Do not operate tool when you are tired.
- **Disconnect Power:** Always disconnect the tool from the power source before making any adjustments, changing accessories, or storing the tool.
- **Use Correct Tool:** Do not force small tool or attachment to do the job of a heavy-duty tool.

- **Maintain Tools With Care:** Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized service facility.

3. Product Features

The DEWALT DW317 Jigsaw is designed for powerful and precise cutting tasks. Key features include:

- **Keyless Blade Clamp:** Allows for quick and easy blade changes without the need for additional tools or touching the blade.
- **5.5 Amp Motor:** Delivers robust power for cutting through various materials, including hardwoods.
- **Variable Speed Control:** Provides 0-3,100 strokes per minute (SPM) for optimal cutting speed tailored to the material and application.
- **4-Position Orbital Action:** Enables faster, more aggressive cuts in a variety of materials, enhancing cutting efficiency.
- **All-Metal Gear Case:** Ensures superior durability and extended tool life, suitable for professional use.
- **Beveling Shoe:** The shoe can be adjusted from 0° to 45° for angled cuts.



Figure 2: Labeled components of the DEWALT DW317 Jigsaw, highlighting the all-metal gear case, variable speed trigger, lever-action blade clamp, 4-position orbital action selector, and shoe bevel adjustment.

4. Setup and Assembly

4.1 Blade Installation and Removal

1. Ensure the jigsaw is unplugged from the power source.
2. Locate the keyless blade clamp lever at the front of the tool.
3. Push the lever forward to open the blade clamp.
4. Insert the shank of the jigsaw blade fully into the clamp opening with the teeth facing forward.
5. Release the lever to secure the blade. Gently pull on the blade to ensure it is firmly seated.
6. To remove, push the lever forward and pull the blade out.



Figure 3: The jigsaw in operation, demonstrating a blade cutting through a wooden workpiece. The keyless blade clamp facilitates quick and safe blade changes.

4.2 Adjusting Orbital Action

The 4-position orbital action allows you to select the aggressiveness of the cut. Higher orbital settings provide faster, more aggressive cuts, while lower settings or no orbital action provide smoother, finer cuts.

1. Ensure the jigsaw is unplugged.
2. Locate the orbital action selector knob on the side of the tool.
3. Rotate the knob to the desired setting (0, 1, 2, or 3). Setting 0 is for straight cuts, and 3 is for the most aggressive orbital action.



Figure 4: Close-up view of the 4-position orbital action selector on the DEWALT DW317 Jigsaw. Settings range from 0 (no orbital action) to 3 (maximum orbital action).

4.3 Adjusting Bevel Angle

The shoe can be adjusted for bevel cuts up to 45 degrees in either direction.

1. Ensure the jigsaw is unplugged.
2. Loosen the shoe adjustment screw, typically located at the front or underside of the shoe.
3. Tilt the shoe to the desired angle, using the angle scale for reference.
4. Tighten the shoe adjustment screw firmly to secure the shoe in place.



Figure 5: Close-up of the jigsaw's shoe adjusted for a bevel cut, showing the angle indicator. The shoe can be set from 0° to 45° for various angled cuts.

5. Operating Instructions

5.1 Powering On/Off

To turn the jigsaw on, depress the trigger switch. The tool will operate as long as the trigger is held. To turn the tool off, release the trigger switch.

5.2 Variable Speed Control

The DW317 features a variable speed trigger. The further the trigger is depressed, the faster the blade will reciprocate. This allows for precise control over cutting speed, which is crucial for different materials and applications.

5.3 Cutting Techniques

- **Straight Cuts:** For straight cuts, use a guide or fence. Ensure the orbital action is set to 0 for the cleanest cut.
- **Curve Cuts:** The jigsaw is ideal for cutting curves. Use a slower speed and a fine-tooth blade for intricate curves.
- **Plunge Cuts:** For plunge cuts, ensure the workpiece is securely clamped. Tilt the tool forward so the front of the shoe rests on the workpiece and the blade is clear. Start the tool, then slowly lower the blade into the material.
- **Material Considerations:** Use appropriate blades for different materials (e.g., wood, metal, plastic). Adjust the orbital action and speed according to the material's hardness and desired finish.



Figure 6: The DEWALT DW317 Jigsaw demonstrating its capability for powerful cuts in various materials. The 5.5 Amp motor ensures efficient performance.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your DEWALT DW317 Jigsaw.

- **Cleaning:** Keep the tool's ventilation openings clean and free of debris to prevent overheating. Use a soft brush or compressed air.

- **Cord Inspection:** Periodically inspect the power cord for damage. If damaged, have it repaired by an authorized service center.
- **Blade Care:** Always use sharp blades. Dull blades can cause the tool to overheat and produce poor cuts.
- **Lubrication:** This tool is factory lubricated and does not require additional lubrication.
- **Carbon Brushes:** The motor is equipped with carbon brushes. If the tool stops working, the brushes may need replacement. This should be performed by a qualified service technician.

7. Troubleshooting

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged cord; Faulty switch	Check power outlet; Inspect cord for damage (replace if necessary); Contact service center for switch replacement.
Blade not cutting efficiently	Dull or incorrect blade; Incorrect orbital setting; Too much feed pressure	Replace blade with a sharp, appropriate type; Adjust orbital action; Reduce feed pressure.
Excessive vibration or noise	Loose blade; Damaged blade; Internal component issue	Ensure blade is securely clamped; Replace damaged blade; Contact service center.
Blade veering off cut line	Dull blade; Incorrect blade type for material; Excessive side pressure	Replace blade; Use appropriate blade; Maintain steady, forward pressure.

8. Technical Specifications

Specification	Value
Model Number	DW317
Motor Amperage	5.5 Amps
Power Source	Corded Electric
Voltage	120 Volts
Wattage	660 watts
Strokes Per Minute (SPM)	0 - 3,100
Orbital Action Settings	4-Position
Bevel Capacity	0° to 45°
Item Weight	240 g (0.24 Kilograms)
Product Dimensions	24.77 x 35.71 x 7.32 cm
Handle Material	Plastic

Specification	Value
Included Components	Case
Warranty	3 Year Limited Warranty

9. Warranty and Customer Support

Your DEWALT DW317 Jigsaw is covered by a **3 Year Limited Warranty**. This warranty covers defects in material or workmanship for three years from the date of purchase. For full warranty details 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. Contact information can typically be found on the DEWALT website or on the product packaging.

Ask a question about this manual

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