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DEWALT DCS354B

DEWALT ATOMIC 20V MAX* Oscillating Tool DCS354B Instruction Manual

Model: DCS354B

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT ATOMIC 20V MAX* Cordless Oscillating Tool, model DCS354B. This tool is designed for various applications including cutting, sanding, and scraping. It features a brushless motor for extended runtime, a Quick-Change accessory system for easy blade changes, and a bright LED light for improved visibility.



Image 1.1: The DEWALT ATOMIC 20V MAX Oscillating Tool (DCS354B) without a battery attached, showcasing its compact design and Quick-Change accessory system.*

2. General Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Read all instructions carefully before operation.

- **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:** Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Wear hearing protection when operating the tool for extended periods. Dress properly; do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

3. Components

Familiarize yourself with the main components of your oscillating tool:

- **A. Accessory Release Lever:** Used to quickly attach and detach accessories.
- **B. Accessory Holder:** Secures the accessory in place.
- **C. LED Work Light:** Illuminates the work surface.
- **D. DUAL-GRIP Variable Speed Trigger:** Controls the tool's oscillation speed.
- **E. Battery Release Button:** Used to remove the battery pack.
- **F. Battery Port:** Where the battery pack is inserted.

4. Setup

4.1. Battery Installation and Removal

The DCS354B operates with DEWALT 20V MAX* Lithium-Ion battery packs (sold separately).

1. **To Install:** Align the battery pack with the battery port on the tool. Slide the battery pack into the tool until it clicks securely into place.
2. **To Remove:** Press the battery release button (E) and pull the battery pack out of the tool.



Image 4.1: The DEWALT ATOMIC 20V MAX Oscillating Tool with a 20V MAX* battery pack attached, ready for use.*

4.2. Accessory Installation and Removal (Quick-Change System)

The Quick-Change accessory system allows for tool-free accessory changes.

1. **To Install:** Pull the accessory release lever (A) away from the tool body. Align the accessory with the accessory holder (B) and push it firmly into place. Release the lever to lock the accessory. Ensure the accessory is securely seated before operation.
2. **To Remove:** Pull the accessory release lever (A) away from the tool body and remove the accessory.

5. Operating Instructions

5.1. Powering On/Off and Variable Speed Control

The tool is equipped with a DUAL-GRIP variable speed trigger (D).

- **To Turn On:** Squeeze the variable speed trigger. The tool will start oscillating.
- **To Adjust Speed:** The oscillation speed is controlled by the amount of trigger depression. Squeeze the trigger further for higher speeds and release slightly for lower speeds.
- **To Turn Off:** Release the variable speed trigger.

5.2. Using the LED Work Light

The integrated LED work light (C) automatically illuminates when the trigger is pressed, providing visibility in dimly lit work areas.

5.3. Application Examples

Always select the appropriate accessory for the material and task.

- **Cutting:** For cutting wood, plastic, drywall, or light metal, attach the suitable cutting blade. Apply steady, even pressure.



Image 5.1: The oscillating tool being used to cut a PVC pipe, demonstrating its utility in plumbing or renovation tasks.



Image 5.2: The oscillating tool precisely cutting window trim, highlighting its ability for detailed work in tight spaces.

- **Scraping:** Use a scraping accessory for removing old paint, adhesive, or caulk. Hold the tool at a shallow angle to the surface.



Image 5.3: The oscillating tool effectively scraping old tile adhesive from a floor, showcasing its power for surface preparation.



Image 5.4: The oscillating tool being used to scrape peeling paint from exterior siding, demonstrating its versatility for renovation and repair.

6. Maintenance

Regular maintenance ensures optimal performance and extends the tool's lifespan.

- **Cleaning:** Keep the tool's ventilation slots clean to prevent overheating. Use a soft brush or dry cloth to remove dust and debris. Do not use water or chemical cleaners.
- **Accessory Care:** Inspect accessories before each use for wear or damage. Replace dull or damaged blades to maintain cutting efficiency and safety.
- **Storage:** Store the tool and battery packs in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the battery is removed from the tool before storage.

7. Troubleshooting

If you encounter issues with your tool, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed	Ensure battery is fully charged and correctly inserted.
Reduced performance/power	Dull accessory or low battery charge	Replace accessory or recharge battery.

Problem	Possible Cause	Solution
Excessive vibration or noise	Loose accessory or damaged component	Check accessory for secure attachment. If problem persists, discontinue use and contact service.

For issues not listed here, or if solutions do not resolve the problem, contact DEWALT customer service.

8. Specifications

Feature	Detail
Model Number	DCS354B
Power Source	Battery Powered (20V MAX* Lithium-Ion)
Motor Type	Brushless
Accessory System	Quick-Change, Universal Accessory Adapter
Special Features	Cordless, LED Light, Variable Speed
Item Weight	2.3 Pounds (Tool Only)
Product Dimensions	12 x 4.5 x 3.06 inches
Included Components	(1) DCS354 20V MAX* Brushless Oscillating Multi-Tool; (1) Wood With Nails Blade; (1) Fast-cut Wood Blade; (1) Universal Accessory Adapter

9. Warranty and Support

DEWALT provides a limited warranty for its products. For specific warranty details, registration, or technical support, please refer to the official DEWALT website or contact their customer service department. Keep your purchase receipt as proof of purchase.

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