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DEWALT DCH253B

DEWALT DCH253B 20V Max SDS 3 Mode Rotary Hammer Kit

Model: DCH253B

Introduction

Thank you for choosing the DEWALT DCH253B 20V Max SDS 3 Mode Rotary Hammer Kit. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before operating the tool to ensure proper use and to prevent injury.

This rotary hammer is designed for professional applications, offering corded power without the cord. It features SHOCKS-Active Vibration Control for reduced vibration and increased user comfort, a bright LED worklight for visibility, and a compact L-shape design for optimal balance and access in tight spaces.



Image: The DEWALT DCH253B 20V Max SDS 3 Mode Rotary Hammer Kit, showing its yellow and black casing, side handle, and SDS chuck.

Safety Information

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

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. 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. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and appropriate respiratory protection. Dress properly. Do not overreach. Maintain proper footing and balance at all times.
- **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.

Specific Rotary Hammer Safety Warnings

- Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
- Use auxiliary handles supplied with the tool. Loss of control can result in personal injury.
- Hold power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.
- Always ensure the workpiece is securely fastened.
- Be aware of the tool's torque reaction, especially when the bit jams. The factory-set clutch helps reduce sudden, high torque reactions.

Components and Features

Familiarize yourself with the key components of your DEWALT DCH253B Rotary Hammer:

- **SDS-Plus Chuck:** For quick and secure bit changes.
- **Mode Selector:** Allows selection between Rotary Drilling, Hammer Drilling, and Chipping modes.
- **Variable Speed Trigger:** Provides control over drilling speed.
- **Reversing Switch:** Changes the direction of rotation.
- **Side Handle:** 360° adjustable for optimal control and comfort.
- **Depth Rod:** For precise drilling depth control.
- **LED Worklight:** Illuminates the work area in confined spaces.
- **Battery Port:** For 20V MAX* Lithium Ion battery (sold separately).

Setup

Battery Installation

1. Ensure the battery is fully charged.
2. Align the battery pack with the tool's battery port.
3. Slide the battery pack into the tool until it clicks securely into place.
4. To remove, press the release button and pull the battery pack out.

Attaching the Side Handle

1. Loosen the side handle clamp.
2. Slide the handle onto the front of the tool.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the clamp firmly to secure the handle.

Installing the Depth Rod

1. Insert the depth rod into the hole on the side handle.
2. Adjust the rod to the desired drilling depth.
3. Tighten the screw or lever on the side handle to secure the depth rod.

Bit Insertion (SDS-Plus)

1. Clean the shank of the SDS-Plus bit.
2. Pull back the chuck collar.
3. Insert the bit into the chuck until it clicks into place.
4. Release the collar and pull on the bit to ensure it is securely locked. The bit should have a slight amount of play, which is normal for SDS systems.

Operating the Tool

Mode Selection

The DCH253B features a 3-mode selector switch. Rotate the selector to the desired mode:

- **Rotary Drilling Mode (Drill Icon):** For drilling in wood, metal, and plastics. No hammering action.
- **Hammer Drilling Mode (Hammer and Drill Icon):** For drilling in concrete, masonry, and stone. Both rotation and hammering action are engaged.
- **Chipping/Chiseling Mode (Chisel Icon):** For light chiseling, chipping, and demolition work. Rotation is disengaged, only hammering action.

Variable Speed Trigger and Reversing Switch

- **Variable Speed:** The trigger switch controls the speed. Pressing the trigger further increases the speed.
- **Reversing Switch:** Located above the trigger, this switch changes the direction of rotation. Use for removing bits or backing out of holes. Always ensure the tool has come to a complete stop before changing direction.

Drilling Techniques

- Mark the drilling location.
- Hold the tool firmly with both hands, using the side handle for stability.
- Start drilling at a low speed to prevent the bit from walking.
- Apply steady, firm pressure. Do not force the tool; let the hammer action do the work.
- Periodically withdraw the bit to clear debris from the hole.

Chiseling Techniques

- Ensure the tool is in Chipping/Chiseling mode.
- Insert the chisel bit.
- Position the chisel at the desired angle.

- Apply steady pressure and allow the hammering action to break the material.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

Cleaning

- Keep the tool's ventilation slots clean to prevent overheating.
- Wipe the tool with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clean the SDS-Plus chuck regularly to ensure smooth bit insertion and removal. Apply a small amount of grease to the bit shank before insertion to reduce wear.

Storage

Store the tool in a dry, secure location out of reach of children. Remove the battery pack before storage.

Troubleshooting

If you encounter issues with your DEWALT DCH253B, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted	Ensure battery is fully charged and properly seated.
Reduced power or performance	Low battery charge; Worn bit; Overheating	Recharge battery; Replace bit; Allow tool to cool down.
Bit jams in material	Excessive pressure; Hitting rebar/obstruction	Reduce pressure; Use reversing switch to free bit. Be aware of torque reaction.
Excessive vibration	Worn bit; Internal issue	Replace bit. If problem persists, contact DEWALT service.

For issues not covered here, please contact DEWALT customer service or an authorized service center.

Specifications

Feature	Specification
Brand	DEWALT
Model Number	DCH253B
Power Source	Battery Powered
Voltage	20 Volts
Amperage	4 Amps
Impact Energy	1.7 ft-lbs
Item Weight	6 Pounds
Product Dimensions	15.5 x 3.78 x 8.47 inches

Feature	Specification
Drill Type	Hammer Drill
Chuck Type	SDS-Plus

Warranty and Support

Warranty Information

This DEWALT product comes with a 3-year Limited Warranty. Please refer to the warranty card included with your purchase for full terms and conditions, or visit the official DEWALT website for detailed warranty information.

Customer Support

For technical assistance, service, or to locate an authorized service center, please visit the official DEWALT website or contact their customer service line. You can also visit the DEWALT Store on Amazon for more product information and resources.

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