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DEWALT D25133K

DEWALT Rotary Hammer Instruction Manual

Model: D25133K
Brand: DEWALT

Important Safety Information

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

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. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

Rotary Hammer Specific 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. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Always wear safety glasses or eye protection.
- Always wear a dust mask when drilling or chipping.

Product Overview

The DEWALT D25133K 1-inch SDS+ Pistol Grip Rotary Hammer is engineered for high performance, delivering 2.6 joules of

impact energy for efficient drilling and chipping. Its robust 8.0 amp motor ensures powerful operation. A key feature is the reverse function, which aids in the removal of stuck drill bits, facilitated by a full-speed rotating brush ring that maintains equal power in both forward and reverse directions. The tool's compact and lightweight design contributes to comfortable use during extended periods. An integral clutch is incorporated to reduce sudden, high torque reactions if the bit jams, enhancing user safety. This rotary hammer is also compatible with the D25301D drilling dust extraction system for cleaner work environments.



Figure 1: The DEWALT D25133K Rotary Hammer, including its carrying case, side handle, and depth rod. This image provides a comprehensive view of the tool and its primary accessories.



Figure 2: A closer view of the DEWALT D25133K Rotary Hammer, highlighting the pistol grip, SDS+ chuck, and the adjustable side handle with depth rod. This angle emphasizes the ergonomic design and key operational components.

Setup

Unpacking and Inspection

- Carefully remove the rotary hammer and all accessories from the packaging.
- Inspect the tool for any damage that may have occurred during shipping. Do not operate if damaged.
- Ensure all listed components are present: Rotary Hammer, 360° Side Handle, Depth Rod, Kit Box.

Attaching the Side Handle

The 360° side handle provides additional control and stability during operation. To attach:

1. Loosen the side handle clamp by rotating it counter-clockwise.
2. Slide the handle onto the front of the tool, positioning it to your preference.
3. Tighten the clamp by rotating it clockwise until secure.

Installing SDS+ Bits

The D25133K uses an SDS+ chuck system for quick and secure bit changes.

1. Clean the shank of the SDS+ bit.
2. Pull back the chuck collar on the rotary hammer.
3. Insert the bit into the chuck, twisting slightly until it clicks into place.
4. Release the chuck collar. Pull on the bit to ensure it is securely locked. There will be a small amount of play, which is normal for SDS+ systems.
5. To remove, pull back the chuck collar and pull the bit out.

Operating Instructions

Selecting Operating Mode

The D25133K features a mode selector switch to choose between drilling, hammer drilling, and chipping functions.

- **Drill Mode (Rotation Only):** For drilling into wood, metal, or plastics. The hammer mechanism is disengaged.
- **Hammer Drill Mode (Rotation with Hammering):** For drilling into concrete, masonry, and stone. This mode combines rotation with powerful impacts.
- **Chipping Mode (Hammering Only):** For light chipping, chiseling, or demolition work. The rotation is disengaged.

Rotate the mode selector dial to the desired icon. Ensure the dial clicks firmly into position.

Powering On/Off

- To turn on, depress the trigger switch. The tool's speed is variable based on trigger pressure.
- To turn off, release the trigger switch.
- For continuous operation, depress the trigger and then push the lock-on button (if present on your model). To release, depress the trigger fully and then release.

Using the Depth Rod

The depth rod allows for precise control over drilling depth.

1. Insert the depth rod through the hole in the side handle.
2. Adjust the rod so that the desired drilling depth is achieved when the tip of the bit touches the workpiece and the end of the rod touches the workpiece.
3. Tighten the side handle to secure the depth rod in place.

Reverse Feature

The reverse switch is located near the trigger. It allows for changing the direction of rotation, which is useful for removing stuck drill bits or driving/removing fasteners (with appropriate accessories).

- Ensure the tool is off before changing the direction of rotation.
- Push the switch to the left for forward rotation (clockwise).
- Push the switch to the right for reverse rotation (counter-clockwise).

Maintenance

Regular maintenance ensures optimal performance and extends the life of your DEWALT Rotary Hammer. Always disconnect the tool from the power source before performing any maintenance.

Cleaning

- Keep the ventilation slots clear to prevent overheating. Use a soft brush or compressed air to remove dust and debris.
- Wipe the tool housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clean the SDS+ chuck regularly to ensure smooth bit insertion and removal. Apply a small amount of grease to the bit shank before insertion.

Inspection

- Regularly inspect the power cord for damage. If damaged, have it repaired by a qualified service technician.
- Check the carbon brushes periodically. Worn brushes can lead to reduced performance or tool failure. Refer to a qualified service center for brush replacement.
- Ensure all screws and fasteners are tight.

Lubrication

This tool is factory lubricated and does not require additional lubrication under normal operating conditions. For internal lubrication, refer to an authorized service center.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	No power supply; Damaged cord/plug; Faulty switch.	Check power outlet and circuit breaker. Inspect cord and plug for damage. If issues persist, contact an authorized service center.
Reduced hammering action.	Worn carbon brushes; Insufficient lubrication; Internal mechanism issue.	Have carbon brushes checked/replaced. Contact an authorized service center for internal issues.
Bit gets stuck in chuck.	Excessive dust/debris in chuck; Bit shank not properly lubricated.	Clean chuck thoroughly. Apply a thin layer of grease to bit shank before insertion. Use reverse function to help free stuck bits.
Overheating.	Blocked ventilation slots; Overloading the tool.	Clear all ventilation slots. Do not continuously operate the tool under heavy load. Allow tool to cool down.

Specifications

Feature	Detail
Model Number	D25133K
Power Source	Corded Electric
Voltage	120 Volts
Amperage	8 Amps
Impact Energy	2.6 Joules
Chuck Type	SDS+
Maximum Chuck Size	20 Millimeters
Product Dimensions (L x W x H)	16.06"L x 12.8"W x 13.35"H

Feature	Detail
Item Weight	10.26 pounds
Number of Speeds	1
Special Feature	Full-speed rotating brush ring for equal power in forward/reverse

Warranty and Support

Warranty Information

This DEWALT Rotary Hammer (Model D25133K) comes with a**3-year limited warranty**. This warranty covers defects in material or workmanship. For full warranty terms and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.

Customer Support

For technical assistance, service, or to locate an authorized service center, please contact DEWALT Customer Service. You can find contact information on the official DEWALT website or by referring to the documentation provided with your tool.
Online Resources: www.dewalt.com

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