

Greenworks DDG401

Greenworks 24V Brushless Cordless Drill Kit (Model DDG401) User Manual

Your guide to safe and efficient operation

INTRODUCTION

Thank you for choosing the Greenworks 24V Brushless Cordless Drill Kit. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your drill. Please read this manual thoroughly before using the product and keep it for future reference.

The Greenworks 24V Brushless Cordless Drill Kit features a 1/2-inch keyless chuck, 18+1 position clutch, two variable speed settings, and an integrated LED light. It is powered by a 24V lithium-ion battery, offering enhanced power and runtime for various drilling and driving tasks.

IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

- Wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- Keep the 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.
- Keep children and bystanders away while operating a power tool.
- Ensure the battery pack is fully charged before use.
- Do not expose power tools to rain or wet conditions.
- Avoid accidental starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- Use the correct tool for your application. Do not force the tool.

PRODUCT COMPONENTS



Figure 1: Overview of the Greenworks 24V Brushless Cordless Drill Kit, including the drill driver, 24V battery, 2A charger, and a belt clip.

- **1/2-inch Keyless Chuck:** For quick and easy bit changes.
- **18+1 Position Clutch:** Allows precise torque adjustment for various materials and tasks.
- **Variable Speed Trigger:** Provides control over drilling and driving speed.
- **2-Speed Gearbox:** Offers low speed (0-380 RPM) for high torque applications and high speed (0-1450 RPM) for faster drilling.
- **LED Work Light:** Illuminates the work area for improved visibility.
- **Brushless Motor:** Delivers increased power, efficiency, and longer tool life.
- **24V Lithium-Ion Battery:** Provides fade-free power.
- **2A Charger:** For recharging the battery.
- **Belt Clip:** For convenient carrying.

SETUP AND ASSEMBLY

1. Charging the Battery

1. Connect the charger to a standard power outlet.
2. Slide the battery pack onto the charger. Ensure it clicks into place.

3. The charger's indicator light will show the charging status. Refer to the charger manual for specific light patterns.
4. Once fully charged, remove the battery from the charger.

Note: It is recommended to fully charge the battery before first use.

2. Installing and Removing the Battery Pack

- **To Install:** Align the battery pack with the battery port on the drill handle. Slide the battery into the handle until it locks securely with a click.
- **To Remove:** Press the battery release button (usually located on the front or sides of the battery pack) and slide the battery out of the handle.

3. Installing and Removing Drill Bits



Figure 2: The 1/2-inch keyless chuck allows for quick and secure bit changes without additional tools.

1. Ensure the drill is off and the battery is removed for safety.
2. Twist the front collar of the keyless chuck counter-clockwise to open the chuck jaws.
3. Insert the drill bit or driver bit into the chuck, ensuring it is centered.
4. Twist the front collar clockwise to tighten the chuck jaws securely around the bit. Hand-tighten firmly.

5. **To Remove:** Twist the front collar counter-clockwise to loosen the jaws and pull the bit out.

4. Adjusting the Clutch and Speed Settings



1/2" KEYLESS CHUCK WITH HARDENED STEEL JAWS

Figure 3: The 18+1 position clutch allows users to select the appropriate torque setting for driving screws into various materials, preventing overtightening or stripping.

- **Clutch Setting:** Rotate the clutch collar (numbered 1-18) to select the desired torque. Lower numbers are for smaller screws and softer materials, while higher numbers are for larger screws and harder materials. The drill icon setting is for drilling applications, providing maximum torque.
- **Speed Setting:** Use the 2-speed selector switch located on top of the drill. Position '1' provides lower speed (0-380 RPM) for high-torque applications like driving screws. Position '2' provides higher speed (0-1450 RPM) for faster drilling.



Figure 4: The drill offers two distinct speed ranges, allowing users to optimize performance for either high-torque driving or high-speed drilling.

OPERATING INSTRUCTIONS

1. Basic Drilling and Driving

1. Ensure the correct bit is installed and the clutch/speed settings are appropriate for the task.
2. Hold the drill firmly with both hands if necessary, maintaining a balanced stance.
3. Place the tip of the bit on the workpiece.
4. Press the variable speed trigger to start the drill. Apply steady, even pressure.
5. Release the trigger to stop the drill.



WIDE USE IN VARIOUS MATERIALS

Figure 5: The Greenworks drill is versatile for a wide range of materials and tasks, including drilling into wood, metal, and tile, as well as driving screws.

2. Forward/Reverse Rotation and Lock

The forward/reverse selector switch is located above the trigger.

- Push the switch to the left for forward rotation (driving screws, drilling).
- Push the switch to the right for reverse rotation (removing screws, backing out bits).
- When the switch is in the center position, the trigger is locked, preventing accidental operation.
Always engage the lock when not in use or when changing bits.

3. LED Work Light

The built-in LED light automatically illuminates when the trigger is pressed, providing visibility in dimly lit work areas. It remains on for a short period after the trigger is released.



1/2" Drill Driver



Figure 6: The integrated LED light enhances visibility in poorly lit conditions, improving accuracy and safety.

4. Belt Clip Usage

The included belt clip can be attached to either side of the drill for convenient temporary storage while working. This allows for hands-free movement between tasks.



Figure 7: The removable belt clip provides a practical way to keep the drill accessible during work.

MAINTENANCE

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

- **Cleaning:** Keep the tool's air vents clear and free of debris. Use a soft, damp cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store batteries in a discharged state for extended periods.
- **Storage:** When not in use, store the drill, battery, and charger in a secure, dry location out of reach of children.
- **Inspection:** Periodically inspect the drill for any signs of damage, loose screws, or worn parts. If damage is found, do not use the tool and contact customer service for repair.

TROUBLESHOOTING

If you encounter issues with your Greenworks 24V Brushless Cordless Drill, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Drill does not start.	Battery not installed correctly; Battery discharged; Forward/reverse switch in lock position; Tool malfunction.	Ensure battery is fully seated; Charge battery; Move switch to forward or reverse; Contact customer service.
Reduced power or runtime.	Battery not fully charged; Battery nearing end of life; Overload.	Fully charge battery; Replace battery; Reduce load on the tool.
Bit slips in chuck.	Chuck not tightened sufficiently; Bit shank is dirty or damaged.	Retighten chuck firmly; Clean or replace bit.
Overheating.	Continuous heavy use; Blocked air vents.	Allow tool to cool down; Clear air vents.

SPECIFICATIONS

Feature	Detail
Brand	Greenworks
Model Number	DDG401
Power Source	Battery Powered
Voltage	24 Volts
Maximum Rotational Speed	1450 RPM
Maximum Torque	310 Inch Pounds (35 Nm)
Chuck Size	1/2 Inch Keyless
Clutch Settings	18 + 1 (Drill)
Number of Speeds	2 (0-380 RPM / 0-1450 RPM)
Motor Type	Brushless
Special Features	Brushless Motor, Built-In LED Working Light, Keyless Chuck, Variable Speed
Item Weight	2.27 Pounds
Product Dimensions	8.11" L x 2.85" W x 7.8" H
Battery Type	Lithium Ion
Battery Capacity	1.5 Ah (included)
Charger	2A Charger (included)

PRODUCT VIDEOS

Greenworks 24V Brushless Drill/Driver Overview

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This video provides a comprehensive overview of the Greenworks 24V Brushless Drill/Driver, highlighting its key features such as the 1/2-inch keyless chuck, 18-position clutch, 2-speed selector, LED light, and advanced battery technology with an integrated USB port for charging portable devices. It also demonstrates the drill's power and efficiency in various applications.

Greenworks 24V PowerAll System Overview

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This video showcases the versatility of the Greenworks 24V PowerAll battery system, demonstrating how one battery can power over 125+ different tools, including various power tools and outdoor equipment. It emphasizes the convenience and cost-effectiveness of a single battery platform for a wide range of tasks.

WARRANTY AND SUPPORT

The Greenworks 24V Brushless Cordless Drill Kit comes with a **3-year tool and battery warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or replacement parts, please contact Greenworks Customer Service.

You can typically find contact information on the Greenworks official website or through your retailer.

For more information, visit the official [Greenworks Store](#).

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