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RIDGID R86115B

RIDGID 18V Brushless Cordless 1/2 in. Hammer Drill/Driver (Model R86115B) Instruction Manual

Introduction

This manual provides essential information for the safe and efficient operation of your RIDGID 18V Brushless Cordless 1/2 inch Hammer Drill/Driver, Model R86115B. Please read and understand all instructions before use to ensure proper function and to prevent injury.
The RIDGID R86115B is designed for demanding applications, featuring a brushless motor for extended runtime and motor life. Its compact design and powerful torque make it suitable for various drilling and driving tasks.

Key Features:

- Die-cast gear box for enhanced tool durability.
- Compact and lightweight design for ease of use.
- Best-in-class torque for demanding applications.
- Micro-clutch with over 100 settings for precise control.



Figure 1: The RIDGID 18V Brushless Cordless 1/2 inch Hammer Drill/Driver (Tool Only).

General Safety Information

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

Work Area Safety:

- 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.

Electrical Safety:

- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety:

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear appropriate hearing protection when operating the tool for extended periods.
- Dress properly. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.

- Stay alert, watch what you are doing, and use common sense when operating a power tool.

Package Contents

Your RIDGID 18V Brushless Cordless 1/2 in. Hammer Drill/Driver (Model R86115B) package includes:

- RIDGID 18V Brushless Cordless 1/2 in. Hammer Drill/Driver (Tool Only)
- Auxiliary Handle
- Operator's Manual (this document)

Note: Batteries and charger are sold separately.

Setup

1. Attaching the Auxiliary Handle

The auxiliary handle provides additional control and stability during operation. Loosen the handle grip, slide it over the chuck and onto the front of the drill, then tighten it securely in a comfortable position.

2. Installing/Removing the Battery Pack

This tool requires an 18V RIDGID battery pack (sold separately). To install, align the battery pack with the base of the tool and slide it in until it clicks into place. To remove, press the release button on the battery pack and slide it out.

3. Installing Drill Bits/Accessories

To install a drill bit or accessory, rotate the chuck counter-clockwise to open the jaws. Insert the bit fully into the chuck, then rotate the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped before operation.

4. Attaching the Belt Hook and Bit Holder

The interchangeable belt hook and bit holder can be attached to either side of the tool's base using the provided screw. This allows for convenient carrying and storage of bits.



Figure 2: Key components of the RIDGID Hammer Drill, including the auxiliary handle, chuck, and belt hook.

Operating Instructions

1. Powering On/Off and Variable Speed Trigger

To start the tool, depress the variable speed trigger. The tool speed increases as the trigger is pressed further. Release the trigger to turn the tool off. The LED light illuminates when the trigger is pressed, providing visibility to the work area.



Figure 3: The integrated LED light illuminates the work area when the trigger is pressed.

2. Selecting Speed Settings

The drill features two speed settings, controlled by a switch located on top of the tool. Position 1 provides lower speed and higher torque, suitable for driving screws or drilling large holes. Position 2 provides higher speed and lower torque, ideal for faster drilling in softer materials.



Figure 4: The 2-speed selector switch allows for optimal speed control.

3. Adjusting the Clutch and Mode Selector

The clutch ring allows you to select from over 100 torque settings, preventing overtightening of screws and damage to materials. Rotate the clutch ring to the desired setting. For drilling applications, select the drill icon. For hammer drilling into masonry, select the hammer drill icon.

4. General Drilling and Driving

Hold the tool firmly with both hands, especially when using the auxiliary handle. Apply steady, even pressure. For drilling, start with a slow speed to create a pilot hole, then increase speed as needed. For driving, use appropriate clutch settings to prevent stripping screws.



Figure 5: Demonstrating hammer drilling into a masonry surface.



Figure 6: Drilling into wood with the RIDGID Hammer Drill.

Maintenance

Cleaning

Keep the tool's air vents clear and free of debris to prevent overheating. Use a clean, dry cloth to wipe down the exterior of the tool. Do not use solvents or harsh chemicals, as these can damage plastic parts.

Storage

Store the tool in a dry, secure location out of reach of children. Remove the battery pack before storing for extended periods.

Battery Care (for separately purchased batteries)

Refer to the battery pack and charger instruction manuals for proper charging, storage, and maintenance procedures for your RIDGID 18V Lithium-Ion batteries.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not installed correctly or discharged.	Ensure battery pack is fully seated. Charge battery pack.
Reduced power or performance.	Battery pack low on charge; incorrect speed/clutch setting.	Recharge battery pack. Adjust speed and clutch settings for the task.
Chuck not holding bit securely.	Bit not inserted fully; chuck not tightened.	Ensure bit is fully inserted and chuck is hand-tightened.
Tool overheats.	Blocked air vents; continuous heavy use.	Clear air vents. Allow tool to cool down. Reduce load.

Specifications

Feature	Detail
Model Number	R86115B
Brand	RIDGID
Voltage	18 Volts
Power Source	Battery Powered (Battery not included)
Chuck Size	1/2 inch (0.5 Inches)
Maximum Rotational Speed	1800 RPM
Maximum Torque	800 inch-lbs
Clutch Settings	Over 100
Product Dimensions (L x W x H)	8" x 5" x 10"
Item Weight	4.4 pounds

Warranty and Support

For warranty information, product registration, or technical support, please refer to the official RIDGID website or contact RIDGID customer service directly. As this is a renewed product, specific warranty terms may vary. Please consult the seller or RIDGID for details regarding your purchase.

RIDGID Official Website: www.ridgid.com

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