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Makita DDF458RTJ

Makita DDF458RTJ 18V Li-ion LXT 13mm Drill Driver User Manual

Model: DDF458RTJ

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DDF458RTJ 18V Li-ion LXT 13mm Drill Driver. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its performance and lifespan. This drill driver is designed for a wide range of drilling and fastening applications, offering robust power and versatility.

2. Safety Instructions

Always observe basic safety precautions 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.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. 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 hearing protection when operating 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 plug from the power source and/or remove the battery pack 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. Package Contents

Verify that all items are present upon unpacking:

- 1 x Makita DDF458RTJ Drill Driver
- 2 x BL1850B 5.0 Ah Li-ion Batteries
- 1 x DC18RC Rapid Charger

- 1 x Makpac Case
- 1 x Side Handle

4. Components Overview



Figure 4.1: The Makita DDF458RTJ Drill Driver shown with its attached side handle and a 5.0 Ah Li-ion battery. This image highlights the overall ergonomic design and the robust construction of the tool, ready for heavy-duty applications.



Figure 4.2: A closer view of the Makita DDF458RTJ Drill Driver, focusing on the 13mm keyless chuck and the torque setting ring. The image clearly displays the numerical torque settings and the drill mode icon, along with the two-speed mechanical gear selector.

Familiarize yourself with the main components of your drill driver:

- **13mm Keyless Chuck:** For quick and easy bit installation and removal.
- **Torque Setting Ring:** Allows selection of 21 torque settings plus a drill mode.
- **Mode Selector:** Switches between drilling and driving modes.
- **Variable Speed Trigger:** Controls the rotational speed based on pressure.
- **Forward/Reverse Switch:** Changes the direction of rotation.
- **LED Job Light:** Illuminates the work area.

- **Side Handle:** Provides additional control and stability during operation.
- **Battery Pack:** 18V Li-ion LXT slide type battery.
- **Battery Release Button:** For detaching the battery pack.

5. Setup

5.1 Battery Charging and Installation



Figure 5.1: The Makita DC18RC Rapid Charger alongside two 5.0 Ah Li-ion batteries. This setup demonstrates the components required for charging the power tool's batteries, ensuring continuous operation.

1. **Charging:** Connect the DC18RC charger to a power outlet. Insert the battery pack into the charger. The charging indicator light will show the charging status. A full charge typically takes approximately 45 minutes for a 5.0 Ah battery.
2. **Installation:** Align the battery pack with the receptacle on the bottom of the drill driver. Slide the battery pack into place until it clicks securely. Ensure it is fully seated before operation.
3. **Removal:** Press the battery release button and slide the battery pack out of the tool.

5.2 Attaching the Side Handle

The side handle provides improved control, especially during high-torque applications or when drilling larger holes.

1. Loosen the clamp on the side handle by rotating it counter-clockwise.
2. Slide the handle onto the front of the drill driver, positioning it to your comfort.
3. Rotate the handle clockwise to tighten the clamp securely.

5.3 Installing and Removing Drill Bits/Accessories

1. **Installation:** Rotate the chuck counter-clockwise to open the jaws. Insert the drill bit or accessory into the chuck as far as it will go. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure.
2. **Removal:** Rotate the chuck counter-clockwise to loosen the jaws and remove the bit.

6. Operating

6.1 Powering On/Off and Variable Speed Control

- To turn the tool ON, pull the trigger switch. To turn it OFF, release the trigger switch.
- The tool features variable speed control. The speed increases with increased pressure on the trigger switch.

6.2 Torque Settings and Drill Mode

- Rotate the torque setting ring to select the desired torque level (1-21) for driving screws. A lower number indicates less torque, suitable for smaller screws or softer materials. A higher number provides more torque for larger screws or harder materials.
- For drilling applications, rotate the ring to the drill mode symbol (**drill icon**). In drill mode, the clutch does not engage, providing maximum torque for drilling.

6.3 Mechanical 2-Speed Selection

The drill driver has a mechanical 2-speed gear selector located on top of the tool.

- **Position 1 (Low Speed):** Provides higher torque for heavy-duty driving applications or drilling large diameter holes.
- **Position 2 (High Speed):** Provides higher speed for faster drilling in smaller diameters or light-duty driving.
- Always ensure the tool is stopped before changing the speed setting to prevent gear damage.

6.4 Forward/Reverse Rotation

The forward/reverse switch is located above the trigger. Push the lever to the left for forward rotation (clockwise) and to the right for reverse rotation (counter-clockwise). The center position locks the trigger for safety.

6.5 LED Job Light

The twin LED job light illuminates the work area when the trigger is pulled. It features a pre-glow and after-glow function for enhanced visibility.

6.6 Drilling and Fastening Applications

- **Drilling in Wood:** Use wood bits. For larger holes, start with a smaller pilot hole. Maximum capacity in wood is 65mm.
- **Drilling in Steel:** Use HSS drill bits. Apply steady pressure and use a cutting lubricant if necessary. Maximum capacity in steel is 13mm.
- **Fastening:** Select the appropriate torque setting to prevent over-driving screws or damaging the workpiece.

7. Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent dust accumulation. Use a soft cloth to wipe down the exterior. Do not use strong detergents or solvents.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods. Charge them periodically if not in use.
- **Inspection:** Check the power cord of the charger for damage. Inspect the tool for any loose screws or damaged parts before each use.

8. Troubleshooting

If you encounter issues, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or not properly installed.	Charge battery fully. Ensure battery is clicked securely into place.
Reduced power/speed	Low battery charge. Overload.	Recharge battery. Reduce pressure on the tool or use a larger bit.
Chuck not holding bit	Bit not inserted far enough. Chuck jaws dirty.	Insert bit fully. Clean chuck jaws. Tighten chuck firmly.
Tool stops during operation	Overload protection activated. Battery overheating.	Release trigger, allow tool to cool. Reduce load. Allow battery to cool before resuming.

9. Specifications

Feature	Specification
Model Number	DDF458RTJ
Voltage	18 Volts
Battery Type	Li-ion LXT
Maximum Rotational Speed	2000 RPM
Maximum Torque	91 Newton Meters
Chuck Size	13 Millimeters
Torque Settings	21 + Drill Mode
Number of Speeds	2 (Mechanical)
Drilling Capacity (Wood)	65 Millimeters
Drilling Capacity (Steel)	13 Millimeters
Item Weight	2 Kilograms (approx. 4.4 pounds)
Product Dimensions	8.86 x 3.11 x 10.2 inches
Sound Level	80 dB

10. Warranty and Support

Your Makita DDF458RTJ Drill Driver comes with a 1-year manufacturer warranty. An additional 2 years of warranty can be obtained when registered within 30 days of purchase. This guarantee does not apply where non-genuine or non-recommended parts or accessories are fitted to the tool. The use of non-genuine or incompatible batteries and chargers with Makita tools will invalidate the Makita guarantee for our tools.

For technical support, service, or warranty claims, please contact Makita customer service or visit the official Makita website for authorized service centers.

Makita Official Website: www.makitatools.com

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