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Makita DTD153Z

Makita DTD153 18V LXT Brushless Impact Driver User Manual

Model: DTD153Z

1. Introduction

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Makita DTD153 18V LXT Brushless Impact Driver. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage. Keep this manual accessible for future reference.





Figure 1: The Makita DTD153 18V LXT Brushless Impact Driver, showcasing its compact design and ergonomic grip.

2. General Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep your 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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Wear hearing protection when operating power tools 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. It will do the job better and safer at the rate for which it was designed. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. Use power tools only with specifically designated battery packs.

3. Product Overview

The Makita DTD153 is an 18V LXT Brushless Impact Driver designed for efficient fastening applications. Its compact and lightweight design enhances maneuverability and reduces user fatigue.

Key Features:

- Compact design with an overall length of only 126mm.
- One-touch sliding chuck for easy bit installation and removal.
- Brushless DC motor generates less heat buildup, extending tool life and battery run time.
- Ergonomic soft rubber grip design for vibration absorption and comfortable operation.
- 18V LXT battery compatibility (battery sold separately).



Figure 2: Side view of the Makita DTD153, highlighting the compact head and ergonomic handle.

4. Setup

4.1 Battery Installation and Removal

The DTD153 operates with Makita 18V LXT Lithium-Ion batteries. Ensure the battery is fully charged before use.

- **To Install:** Align the battery pack with the grooves in the tool's handle. Slide the battery into the handle until it locks into place with a click.
- **To Remove:** Press the release button on the battery pack and slide the battery out of the tool's handle.

4.2 Bit Installation and Removal

The tool features a one-touch sliding chuck for quick and easy bit changes.

- **To Install:** Pull the chuck sleeve forward. Insert the bit shank into the chuck as far as it will go. Release the chuck sleeve to secure the bit. Gently pull on the bit to ensure it is locked.
- **To Remove:** Pull the chuck sleeve forward and pull the bit out.



Figure 3: Close-up of the one-touch sliding chuck for bit installation and removal.

5. Operating Instructions

5.1 Powering On/Off and Speed Control

The tool is activated by the trigger switch.

- **To Start:** Pull the trigger switch. The tool speed increases with increased pressure on the trigger.
- **To Stop:** Release the trigger switch.
- **Forward/Reverse Switch:** Located above the trigger, this switch controls the direction of rotation. Push it to the left for forward rotation (tightening) and to the right for reverse rotation (loosening). Position it in the center to lock the trigger and prevent accidental startup.

5.2 Driving Screws

Position the bit on the screw head. Apply firm, steady pressure to the tool and pull the trigger. The impact mechanism will engage automatically when resistance is met, providing high torque for driving fasteners.



Figure 4: The Makita DTD153 Impact Driver being used to drive a screw into a wooden beam, demonstrating its application.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect the battery before performing any maintenance.

- **Cleaning:** Keep the tool's ventilation openings clean to prevent overheating. Use a soft, damp cloth to wipe down the tool. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically inspect the chuck for wear or damage. Keep it free of dust and debris.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store batteries in a discharged state for extended periods.
- **Storage:** When not in use, store the tool in a secure, dry location out of reach of children.

7. Troubleshooting

If you encounter issues with your Makita DTD153, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly or discharged; Forward/Reverse switch in center (locked) position.	Ensure battery is fully charged and properly seated. Move the Forward/Reverse switch to the forward or reverse position.
Reduced power or speed	Low battery charge; Overload protection activated.	Recharge the battery. Reduce the load on the tool. Allow the tool to cool down if it has been used continuously under heavy load.
Bit not holding securely	Chuck sleeve not fully released; Debris in chuck; Worn bit shank.	Ensure the chuck sleeve snaps back into place. Clean the chuck. Use bits with undamaged shanks.

8. Specifications

Feature	Specification
Model Number	DTD153Z
Brand	Makita
Power Source	Battery Powered
Voltage	18 Volts
Maximum Rotational Speed	3400 RPM
Amperage	18 Amps
Maximum Power	350 Watts
Wattage	280 watts
Item Weight	2 Pounds (approx. 0.91 kg)
Product Dimensions	6.69 x 3.31 x 4.13 inches (approx. 170 x 84 x 105 mm)
Battery Cell Type	Lithium Ion
Special Feature	Ergonomic
Included Components	Bare-Tool (battery and charger sold separately)

9. Warranty and Support

For information regarding warranty coverage, service, or technical support for your Makita DTD153 Impact Driver, please refer to the official Makita website or contact Makita customer service directly. Warranty terms may vary by region and purchase location.

Official Makita Website: www.makitatools.com

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