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Makita DTW700Z

Makita 1/2" Battery Impact Driver User Manual

Model: DTW700Z

Introduction

Thank you for choosing the Makita 1/2" Battery Impact Driver, Model DTW700Z. This powerful and versatile tool is designed for fastening and loosening various bolts, nuts, and screws with high torque. Its cordless design provides excellent portability and convenience for a wide range of applications. This manual provides essential information for safe operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.



Figure 1: The Makita 1/2" Battery Impact Driver (Model DTW700Z) showing its compact design and ergonomic grip. This image displays the tool from a slight angle, highlighting the drive square, motor housing, and battery interface.

Safety Instructions

Always observe 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 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. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with tools for which they are not intended.

Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- Makita 1/2" Battery Impact Driver (Model DTW700Z)
- Belt Clip (pre-installed or included separately)
- Instruction Manual

Important Note: This product is a bare tool. The battery pack and charger are not included and must be purchased separately. This impact driver is designed for use with Makita 18V LXT Lithium-Ion batteries.

Setup

1. Attaching/Removing the Battery Pack

Ensure the battery pack is fully charged before first use.

1. To attach, align the battery pack with the grooves in the tool's handle and slide it in until it clicks into place.
2. To remove, press the release button on the battery pack and slide it out of the tool.

2. Installing/Removing Impact Sockets

The impact driver features a 1/2" square drive for standard impact sockets.

1. To install, push the desired 1/2" square drive impact socket firmly onto the anvil until it locks into place.
2. To remove, pull the socket off the anvil. Some sockets may require a slight twist while pulling.



Figure 2: Close-up view of the impact driver's head, showing the 1/2" square drive anvil where sockets are attached. This image provides a clear view of the robust construction around the drive mechanism.

Operating Instructions

1. Powering On/Off

The tool is activated by pressing the trigger switch. The speed increases with trigger pressure.

2. Forward/Reverse Rotation

The direction of rotation is changed by the forward/reverse lever. Ensure the lever is fully engaged in either forward or reverse before operating.

3. Selecting Driving Mode and Speed

The DTW700Z features multiple driving modes and speed settings for various applications. Use the mode selection button to cycle through the available modes (indicated by LEDs). The speed can often be adjusted independently within each mode.



Figure 3: Detailed view of the control panel on the Makita impact driver's base. It displays LED indicators for four speed settings (1-4) and various driving modes, including a bolt mode and a light control, allowing precise control over the tool's operation.

4. Operation Tips

- Always hold the tool firmly with both hands, especially when applying high torque.
- For optimal performance, ensure the battery is fully charged.
- Match the driving mode and speed to the material and fastener type.



Figure 4: A user demonstrating the Makita impact driver in a practical application, fastening a component in a tight space. The integrated LED light illuminates the work area, showcasing the tool's utility in various environments.

Maintenance

Regular maintenance ensures the longevity and safe operation of your Makita impact driver.

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent dust accumulation, which can cause overheating. Use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the power cord (if using a corded charger), battery contacts, and the drive anvil for wear or damage.
- **Storage:** Store the tool and battery pack in a cool, dry place, away from direct sunlight and moisture. Ensure the battery is not fully discharged before storing for long periods.
- **Lubrication:** This tool is designed for maintenance-free operation regarding internal lubrication. Do not attempt to lubricate internal components.

Troubleshooting

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not inserted correctly or discharged.	Ensure battery is fully inserted. Recharge battery pack.
Reduced power or torque.	Low battery charge. Incorrect mode/speed setting.	Recharge battery. Select a higher speed or appropriate mode.
Tool overheats.	Prolonged heavy use. Blocked ventilation slots.	Allow tool to cool down. Clean ventilation slots.
Socket does not stay on anvil.	Worn anvil or socket. Incorrect socket type.	Replace worn parts. Ensure using 1/2" square drive impact sockets.

Specifications

Feature	Specification
Model Number	DTW700Z
Drive Size	1/2 inch Square
Power Source	Battery (18 Volts)
Voltage	18 Volts
Item Weight	3.96 pounds (1.8 Kilograms)
Material	Alloy Steel
Color	Black / Black
UPC	088381723831

Note: Specifications are subject to change without notice for improvement.

Warranty and Support

Makita products are manufactured under strict quality control standards. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your purchase or visit the official Makita website. You can also contact Makita customer service directly.
For further assistance, please visit: www.makitatools.com

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