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Makita TW004GRDX

Makita 40Vmax Cordless Impact Wrench TW004GRDX Instruction Manual

Model: TW004GRDX

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita 40Vmax Cordless Impact Wrench, model TW004GRDX. Please read this manual thoroughly before using the tool and keep it for future reference.
The Makita TW004GRDX is a high-performance cordless impact wrench designed for heavy-duty fastening applications, offering a compact design with significant torque and enhanced durability.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury.

- **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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool 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 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. Use power tools only with specifically designated battery packs.

3. Package Contents

Verify that all items are present and in good condition upon unpacking. If any items are missing or damaged, contact your dealer immediately.

- Makita 40Vmax Cordless Impact Wrench (TW004GRDX)
- 40Vmax Li-ion Battery (2 units)
- Battery Charger
- Carrying Case
- Hook
- Instruction Manual

4. Product Overview

The Makita TW004GRDX is a powerful and durable impact wrench featuring a compact design and advanced control systems for stable fastening. It is equipped with a high-power Brushless (BL) motor for efficient operation.


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BL
MOTOR
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40V

Figure 1: Makita 40Vmax Cordless Impact Wrench TW004GRDX with battery and socket attached.

Key Features:

- **High Torque Output:** Delivers a maximum tightening torque of 320 N·m in a compact body.
- **Constant Rotation Control:** Ensures stable tightening performance, less affected by the remaining battery capacity.
- **Brushless Motor:** Provides increased power, efficiency, and longer tool life.
- **IP56 Rated:** Designed for dust and water resistance, protecting the tool and battery from dust ingress and water splashes. *Note: This rating does not guarantee against malfunction if submerged or exposed to strong water jets.*
- **Multiple Operating Modes:** Features 3 tightening modes and an auto-stop function for optimized work efficiency.



Figure 2: The impact wrench in operation, highlighting the high-power Brushless (BL) motor technology.

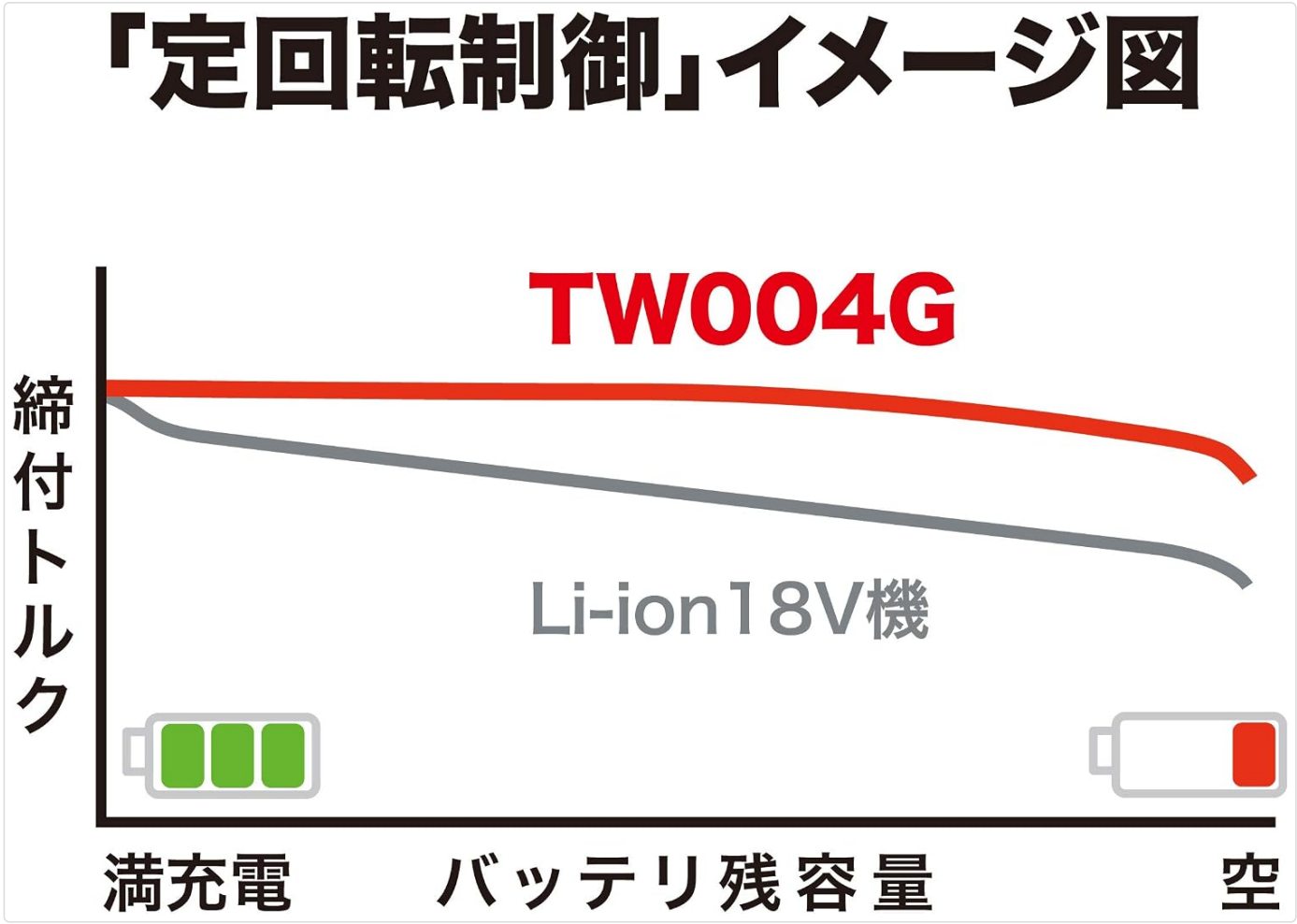


Figure 3: Graph illustrating the stable tightening torque maintained by the TW004G's constant rotation control, even as battery capacity decreases, compared to a standard 18V Li-ion tool.

5. Setup

5.1 Battery Installation and Charging

1. **Charging the Battery:** Connect the charger to a power outlet. Insert the 40Vmax Li-ion battery into the charger. The charging indicator lights will show the charging status. Ensure the battery is fully charged before first use.
2. **Installing the Battery:** Align the battery pack with the battery port on the tool. Slide the battery into place until it clicks securely.
3. **Removing the Battery:** Press the battery release button and slide the battery out of the tool.

5.2 Attaching Accessories

The TW004GRDX uses a 12.7mm (1/2 inch) square drive for sockets.

1. Ensure the tool is switched off and the battery is removed.
2. Push the desired socket onto the square drive until it locks securely.
3. To remove, pull the socket firmly off the square drive.

6. Operating Instructions

6.1 Powering On/Off

To turn the tool on, pull the trigger switch. The tool speed increases with trigger pressure. To turn off, release the trigger

switch.

6.2 Forward/Reverse Rotation

The direction of rotation is changed by the forward/reverse lever. Push the lever from the left side for forward rotation (tightening) and from the right side for reverse rotation (loosening). Ensure the lever is fully engaged in the desired position before operation.

6.3 Mode Selection

The tool features multiple modes to optimize performance for various applications. Use the mode selection button to cycle through the available modes.



Figure 4: Mode selection panel with indicators for impact settings (1-4), full speed (long press), and auto-stop mode.



Figure 5: Table explaining the different operating modes for forward and reverse rotation.

Forward Rotation Modes (Tightening):

- **Mode 1:** Immediate rotation stop after impact starts. Suitable for scaffolding tightening, temporary tightening of light vehicle tires.
- **Mode 2:** Rotation stops in approximately 0.5 seconds after impact starts. Suitable for automotive tires, pipe connections.
- **Mode 3:** Rotation stops in approximately 1 second after impact starts. Suitable for temporary tightening of steel frames and bridges.

Reverse Rotation Modes (Loosening):

- **Mode 1:** Immediate rotation stop after impact ends. For general use.
- **Mode 2:** Rotation stops in approximately 0.2 seconds after impact ends. Prevents bolts and nuts from falling off during loosening.
- **Mode 3:** Low-speed rotation (approx. 300 min^{-1}). Does not stop. Useful when you want to stop bolts or nuts at an arbitrary position.

6.4 Fastening Procedure

1. Select the appropriate mode for your application.
2. Place the socket over the bolt or nut.
3. Pull the trigger switch to begin fastening. The impact mechanism will engage as resistance is met.
4. Release the trigger when the desired tightness is achieved or the auto-stop function activates.



Figure 6: The impact wrench being used to tighten a bolt on a wooden beam.

7. Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent dust accumulation. Use a soft, dry cloth. Do not use water or chemical agents.

- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Inspection:** Periodically check for loose screws, damaged cords, or worn parts. If any damage is found, have the tool serviced by an authorized Makita service center.
- **Storage:** When not in use, store the tool, batteries, and charger in the provided carrying case in a secure, dry place out of reach of children.

8. Troubleshooting

If you encounter issues with your impact wrench, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly Battery discharged Tool malfunction	Reinstall battery securely Charge battery Contact service center
Reduced power/torque	Battery low Incorrect mode selected Worn carbon brushes (if applicable, though BL motor) Tool overheating	Charge battery Select higher power mode Allow tool to cool down
Excessive vibration/noise	Loose parts Damaged accessory Internal damage	Check for loose components Replace accessory Contact service center

If the problem persists after attempting these solutions, please contact an authorized Makita service center for assistance.

9. Specifications

Feature	Specification
Model	TW004GRDX
Voltage	DC 36V (40Vmax)
Battery Type	Slide-type Li-ion
Square Drive	12.7mm (1/2 inch)
Standard Bolt Capacity	M10 - M20
High-Strength Bolt Capacity	M10 - M16
Maximum Tightening Torque	320 N·m
Workload per Charge (M16 High-Strength Bolt, approx. 1.5s tightening)	Approx. 280 bolts
Dimensions (L x W x H)	144mm x 86mm x 248mm
Weight (with battery)	1.9 kg

Feature	Specification
Protection Class	IP56 (Dust and Water Resistant)

10. Warranty and Support

For warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official Makita website for your region. You can also contact Makita customer service directly for assistance. Keep your purchase receipt as proof of purchase for warranty claims.

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