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Makita DTM52ZJ

Makita DTM52ZJ 18V LXT Multi-Tool Instruction Manual

Model: DTM52ZJ

INTRODUCTION

This instruction manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DTM52ZJ 18V LXT Multi-Tool. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Makita DTM52ZJ is a versatile cordless oscillating multi-tool designed for various applications including cutting, sanding, polishing, grinding, and deburring. It features Starlock MAX compatibility for quick accessory changes, Anti-Vibration Technology (AVT) for reduced user fatigue, and a brushless motor for extended tool life and efficiency. This model is supplied as a bare tool (machine only) and requires an 18V LXT battery and charger (sold separately).

SAFETY INSTRUCTIONS

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

- **Read All Instructions:** Familiarize yourself with the tool's functions and safety warnings before use.
- **Wear Eye Protection:** Always wear safety glasses or goggles to protect against flying debris.
- **Secure Workpiece:** Use clamps or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- **Keep Work Area Clean:** Cluttered areas and benches invite injuries.
- **Use Correct Accessories:** Only use accessories specifically designed for oscillating multi-tools and compatible with the Starlock MAX system. Ensure accessories are securely attached.
- **Disconnect Battery:** Always remove the battery pack from the tool before making any adjustments, changing accessories, or storing the tool.
- **Avoid Accidental Starting:** Ensure the switch is in the off position before inserting the battery pack.
- **Maintain Good Grip:** Hold the tool firmly with both hands during operation.
- **Do Not Overreach:** Keep proper footing and balance at all times.
- **Store Idle Tools:** When not in use, tools should be stored in a dry, high, or locked-up place out of reach of children.

SETUP

Battery Installation and Removal

The Makita DTM52ZJ operates on an 18V LXT Lithium-Ion battery (not included). Ensure the battery is fully charged before use.

1. **To Install:** Align the battery pack with the grooves in the tool's battery housing. Slide the battery into place until it clicks securely.
2. **To Remove:** Press the release button on the battery pack and slide the battery out of the tool.



Figure 1: Overall view of the Makita DTM52ZJ Multi-Tool with an 18V LXT battery installed. Note the battery is sold separately.

Accessory Installation (Starlock MAX System)

The DTM52ZJ features the Starlock MAX accessory interface, allowing for quick, tool-less accessory changes and enhanced power transfer. Only use Starlock MAX compatible accessories.

1. **Ensure Battery is Removed:** Always remove the battery pack before installing or removing accessories.
2. **Open Lever:** Locate the accessory release lever on the tool head. Push the lever to open the accessory clamp.
3. **Align Accessory:** Align the Starlock MAX accessory with the tool's accessory interface. The accessory will only fit in one orientation.

4. **Secure Accessory:** Push the accessory firmly onto the interface until it clicks into place. Close the release lever to secure the accessory. Gently pull on the accessory to ensure it is locked.



Figure 2: Close-up view of the Starlock MAX accessory interface, indicating compatibility with Starlock, Starlock Plus, and Starlock MAX accessories.



Figure 3: Front view of the tool head, showing the mechanism for attaching Starlock MAX accessories.

OPERATING INSTRUCTIONS

Power On/Off

To start the tool, slide the power switch to the "ON" position. To stop the tool, slide the power switch to the "OFF" position.



Figure 4: Close-up of the power switch and Starlock MAX label on the tool body.

Speed Adjustment

The tool features a variable speed control dial, allowing you to adjust the oscillation speed according to the material and application. Rotate the dial to select the desired speed setting. Higher numbers correspond to higher oscillation speeds, up to 20,000 oscillations per minute.



Figure 5: Top view of the tool showing the speed adjustment dial with numerical settings.

Integrated LED Work Light

The tool is equipped with an LED work light that illuminates the work area for improved visibility, especially in dimly lit conditions. The light activates when the tool is powered on.



Figure 6: Front view of the tool head showing the integrated LED work light illuminated.

General Operation Tips

- **Cutting:** For plunge cuts, position the blade at the desired starting point and slowly push the tool into the material. For flush cuts, ensure the blade is parallel to the surface.
- **Sanding:** Attach the appropriate sanding pad and abrasive paper. Use light pressure and keep the tool moving to avoid gouging the material.
- **Scraping/Grinding:** Select the correct accessory for the material. Apply steady, even pressure.
- **Anti-Vibration Technology (AVT):** The tool incorporates AVT to minimize vibration, enhancing user comfort and control.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Makita DTM52ZJ Multi-Tool.

- **Cleaning:** After each use, clean the tool body and ventilation openings with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no dust or debris accumulates around the accessory interface.

- **Accessory Inspection:** Regularly inspect accessories for wear, damage, or dullness. Replace worn or damaged accessories immediately to maintain performance and safety.
- **Battery Care (for 18V LXT batteries, sold separately):**
 - Store batteries in a cool, dry place away from direct sunlight and moisture.
 - Do not store fully discharged batteries for extended periods.
 - Charge batteries using only Makita-approved chargers.
- **Storage:** Store the tool in a dry, secure location out of reach of children. If storing for an extended period, remove the battery pack.

TROUBLESHOOTING

If you encounter issues with your Makita DTM52ZJ, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start.	Battery not inserted correctly or discharged.	Ensure battery is fully inserted and charged.
Reduced performance or excessive vibration.	Worn or incorrect accessory. Overloading the tool.	Replace accessory. Reduce pressure on the workpiece.
Accessory not securing properly.	Accessory not Starlock MAX compatible. Release lever not fully closed.	Ensure accessory is Starlock MAX compatible. Close the release lever completely.

If the problem persists after attempting these solutions, contact Makita customer service or an authorized service center.

SPECIFICATIONS

Feature	Detail
Brand	Makita
Model Number	DTM52ZJ
Power Source	18V LXT Battery (not included)
Max Oscillation Speed	20,000 oscillations/min
Weight	2 Kilograms
Accessory Interface	Starlock MAX
Special Features	Multifunctional, Anti-Vibration Technology (AVT), Brushless Motor, LED Work Light
Recommended Uses	Cutting, Sanding, Polishing, Grinding, Deburring
Color	Black, Blue, Grey
UPC	088381741323



Figure 7: Side view of the tool showing the model number (DTM52) and other specifications printed on the housing.

WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Makita website. Warranty terms and conditions may vary by region.

For technical support, spare parts, or service inquiries, please contact your local authorized Makita service center or visit the Makita global website for contact information.

Makita Official Website: www.makita.com