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Makita MLT100N/2

Makita MLT100N/2 240V 260mm Table Saw Instruction Manual

Model: MLT100N/2

1. Introduction

This instruction manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your Makita MLT100N/2 240V 260mm Table Saw. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury or damage.

2. Safety Instructions

Operating power tools, especially table saws, requires strict adherence to safety guidelines. Failure to follow these instructions may result in serious injury or death.

General Power Tool Safety

- **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. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the saw. Wear appropriate clothing; avoid loose clothing, jewelry, or long hair that can get caught in 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 before making any adjustments, changing accessories, or storing power tools.

Specific Table Saw Safety

- **Blade Guard:** Always ensure the blade guard system is properly installed and functioning before operation. The MLT100N/2 features a see-through blade guard for visibility.
- **Push Stick:** Always use a push stick when making narrow cuts or when your hands are close to the blade. The MLT100N/2 includes a push stick for safe operation.
- **Rip Fence:** Ensure the rip fence is securely locked in place and parallel to the blade before making a cut.

- **Miter Gauge:** Use the miter gauge for cross-cutting operations. Ensure it is properly adjusted and secured.
- **Material Support:** Always support the workpiece adequately, especially for large pieces, to prevent kickback.
- **Blade Selection:** Use only sharp, correctly sized blades suitable for the material being cut. The MLT100N/2 uses a 260mm TCT blade.

3. Product Overview

The Makita MLT100N/2 is a 240V 260mm table saw designed for precision cutting of wood. It features a powerful 1,500-watt motor and a robust design for various woodworking tasks.

Key Features:

- Left extension table with smooth sliding action.
- Right and rear extension table for increased cutting capacity.
- Tool-less installable and removable safety guard.
- On-tool storage for commonly used accessories.
- See-through blade guard system for enhanced visibility.
- Mitre gauge with vice for accurate angle cuts.
- Depth of cut at 90 degrees: 93mm; at 45 degrees: 64mm.

Components:



Figure 1: Front view of the Makita MLT100N/2 Table Saw, showing the main table, blade guard, and controls.

The main image displays the overall structure of the table saw, including the main table surface, the transparent blade guard, the rip fence, and the control knobs for adjustments.



Figure 2: Side view of the Makita MLT100N/2 Table Saw, highlighting the left and right extension tables.

This image illustrates the extended table surfaces, which provide greater support for larger workpieces, enhancing the saw's cutting capacity.

4. Setup

While the Makita MLT100N/2 often arrives largely pre-assembled, initial adjustments are crucial for accurate and safe operation.

Unpacking and Placement

1. Carefully remove the table saw from its packaging. Due to its weight (approximately 43 kg / 95 lbs), it is recommended to have assistance.
2. Place the saw on a stable, level surface capable of supporting its weight and the weight of the workpiece.
3. Ensure adequate clear space around the saw for safe operation and material handling.

Initial Adjustments

Perform the following adjustments to ensure precision:

1. **Blade Alignment:** Check that the saw blade is perfectly perpendicular to the table surface at 90 degrees and parallel to the miter gauge slot. Adjust if necessary using the appropriate controls, typically found beneath the table.
2. **Rip Fence Alignment:** Ensure the rip fence is parallel to the saw blade. Lock the fence in place and measure the distance from the blade to the fence at both the front and rear of the blade. Adjust until measurements are identical.
3. **Miter Gauge Adjustment:** Verify that the miter gauge is accurate at 0 and 45-degree settings. Use a reliable square or protractor for calibration.
4. **Blade Guard Installation:** Attach the transparent blade guard system. Ensure it moves freely and covers the blade effectively.
5. **Extension Tables:** Extend and secure the left, right, and rear extension tables as needed for your workspace and typical workpiece sizes.

5. Operating Instructions

Before operating, ensure all safety checks are complete and you are wearing appropriate personal protective equipment.

Powering On/Off

- Connect the saw to a 240V power supply.
- To turn on, press the green 'ON' button.
- To turn off, press the red 'OFF' button.

Adjusting Blade Height and Angle

- **Blade Height:** Use the height adjustment handwheel to raise or lower the blade. For through cuts, the blade should extend approximately 1/8 inch (3mm) above the workpiece.
- **Blade Angle:** Use the bevel adjustment lever and scale to set the desired cutting angle (0-45 degrees).

Making Cuts



Figure 3: A user performing a cross-cut using the miter gauge on the Makita MLT100N/2 Table Saw.

This image demonstrates the proper hand placement and use of the miter gauge for making accurate cross-cuts.



Figure 4: A user operating the Makita MLT100N/2 Table Saw, shown with an optional wheeled stand for portability and ergonomic height.

This image provides a broader view of the saw in operation, including the use of an optional stand which can improve stability and user comfort.

1. **Rip Cuts (Lengthwise):** Set the rip fence to the desired width. Place the workpiece against the fence and feed it slowly and steadily into the blade. Always use a push stick for the last portion of the cut.
2. **Cross Cuts (Widthwise):** Use the miter gauge to guide the workpiece. Hold the workpiece firmly against the miter gauge and feed it into the blade. Never use the rip fence and miter gauge simultaneously for cross-cutting.
3. **Bevel Cuts:** Adjust the blade angle as required. Ensure the workpiece is securely supported and guided.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your table saw.

Cleaning

- Always disconnect the saw from the power supply before cleaning.
- Remove sawdust and debris from the table surface, blade guard, and motor housing using a brush or vacuum cleaner.
- Clean the blade regularly to remove pitch and resin buildup, which can affect cutting performance.

Lubrication

- Apply a light coat of machine oil or dry lubricant to moving parts such as the blade height adjustment mechanism, bevel adjustment, and sliding components of the extension tables and miter gauge. This can help reduce noise and improve smooth operation, as noted by some users for sliding parts.

Blade Replacement

- Ensure the saw is unplugged.
- Remove the blade guard.
- Use the provided wrenches to loosen the arbor nut and remove the old blade.
- Install the new 260mm TCT blade, ensuring the teeth are oriented correctly for cutting. Tighten the arbor nut securely.
- Reinstall the blade guard.

7. Troubleshooting

This section addresses common issues you might encounter with your Makita MLT100N/2 Table Saw.

Common Issues and Solutions

- **Saw not powering on:** Check the power connection, circuit breaker, and ensure the 'ON' button is fully depressed.
- **Blade misalignment:** If cuts are not square or parallel, refer to the 'Initial Adjustments' section (Section 4) to re-calibrate the blade and rip fence.
- **Wobbly rip fence:** Ensure the rip fence locking mechanism is fully engaged. If the issue persists, inspect the fence for damage or wear and adjust as per the setup instructions.
- **Miter gauge not fitting or inaccurate:** Verify the miter gauge slot dimensions. The MLT100N/2 uses a 15mm slot, which is non-standard compared to some 19mm slots. Ensure the gauge is clean and free of debris. Calibrate the angle settings if inaccurate.
- **Excessive noise or vibration:** Check for loose components, a dull or damaged blade, or excessive sawdust buildup. Disconnect power and inspect thoroughly.
- **Motor overheating:** Ensure proper ventilation around the motor. Avoid forcing the saw through material; let the blade do the work.

If you encounter issues not covered here or require further assistance, contact Makita customer support.

8. Specifications

Specification	Value
Brand	Makita
Model Number	MLT100N/2
Power Source	Corded Electric
Voltage	240 Volts
Wattage	1500 watts
Speed	4500 RPM
Blade Length	260 Millimeters
Blade Material	Tungsten Carbide (TCT)
Number of Teeth	20 (standard included blade)
Depth of Cut (90°)	93mm
Depth of Cut (45°)	64mm
Product Dimensions (L x W x H)	3.66"L x 1.19"W x 3.08"H (Note: These dimensions seem to be for a component, not the full saw. Refer to packaging for full saw dimensions.)
Item Weight	1 Kilogram (Note: This weight is inconsistent with user reviews stating ~43kg. Refer to official Makita documentation for accurate weight.)
Included Components	1 x Makita MLT100N/2, 1 x Mitre gauge, 1 x Push stick, 1 x Rip fence, 1 x TCT blade, 1 x Triangular rule, 2 x Wrenches

9. Warranty and Support

Warranty Information

The Makita MLT100N/2 comes with a **1-year manufacturer warranty**. An additional **2 years of warranty** can be obtained by registering your product within 30 days of purchase. Please refer to the official Makita website or your purchase documentation for detailed warranty terms and conditions.

Customer Support

For technical assistance, spare parts, or warranty claims, please contact Makita customer support through their official website or authorized service centers. Always provide your model number (MLT100N/2) and purchase details when seeking support.

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