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**Towallmark ZTT-WOODLIBOfba0922**

# Towallmark Compact Wood Trimmer Router User Manual

Model: ZTT-WOODLIBOfba0922

## 1. Introduction

Thank you for choosing the Towallmark Compact Wood Trimmer Router. This electric trimming machine is designed for precision woodworking tasks, including cabinet processing, handcraft production, chamfering, grooving, surface finishing, curve cutting, wood edge planning, and pattern processing. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.

## 2. Important Safety Instructions

**WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating noisy tools. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Power 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.
- **Maintenance:** Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.
- **Specific Router Safety:** Ensure the router bit is securely tightened before operation. Always hold the router firmly with both hands. Keep hands clear of the cutting area.

## 3. Product Overview

### 3.1 Key Features




**Figure 3.1: Copper Motor and Aluminum Shell.** The router features an all-copper motor for high efficiency and heat resistance, encased in a durable aluminum shell for waterproof and anti-dust protection.



**Figure 3.2: Rubber-Covered Hand Shank.** Provides a comfortable, anti-skid grip for convenient and safe operation, reducing vibration and improving control.



**Figure 3.3: Stainless Steel Gear Transmission.** Ensures the blade grips tightly and allows for convenient bit changes, enhancing durability and precision.

## 3.2 Components and Package Contents



**Figure 3.4: Package Contents.** Illustrates the main components included in the box.




**Figure 3.5: Labeled Parts.** Identifies key parts such as the carbon brush, power switch, adjustment knob, and transparent base.

The package typically includes:

1. Electric Trimmer Router
2. Straight Line Auxiliary Gauge
3. Trimming Guide Wheel
4. Small Wrench (2 pcs)
5. Carbon Brush (2 pcs)
6. Screws and Nuts (3 pcs)
7. User Manual

## 4. Setup and Bit Installation

Before operating the router, ensure proper bit installation and base adjustment.

1. **Step 1: Loosen the Collet Nut.** Use the provided wrenches to loosen the collet nut on the router shaft.




**Figure 4.1: Loosening the collet nut with wrenches.**

2. **Step 2: Insert the Collet.** If changing collet sizes, insert the appropriate collet (e.g., 1/4 inch) into the collet nut.




**Figure 4.2: Inserting the collet into the nut.**

3. **Step 3: Insert the Router Bit.** Insert the shank of the router bit into the collet. Ensure it is inserted far enough to provide a secure grip, but not bottomed out.



**Figure 4.3: Inserting the router bit into the collet.**

4. **Step 4: Tighten the Collet Nut.** Use the wrenches to firmly tighten the collet nut, securing the router bit in place. Do not overtighten.



**Figure 4.4: Tightening the collet nut to secure the bit.**

5. **Adjusting Base Depth:** Loosen the guide fixing knob, adjust the transparent base to the desired cutting depth, and then securely tighten the knob.

## 5. Operating Instructions

This router is versatile for various woodworking applications. Always ensure the workpiece is securely clamped before routing.

### 5.1 Basic Operation

- **Power On/Off:** Use the power switch located on the top of the router to turn the tool on or off. Ensure the switch is in the "Off" position before plugging in or unplugging the tool.
- **Holding the Tool:** Grip the router firmly with both hands on the rubber-covered hand shank for maximum control and stability.
- **Starting the Cut:** Allow the router to reach full speed before engaging the bit with the workpiece.
- **Direction of Cut:** Always feed the router against the rotation of the bit to maintain control and prevent kickback.

### 5.2 Applications



**Figure 5.1: Examples of router applications including slotting, circle slotting, and DIY carving.**

- **Chamfering and Edge Planning:** Use appropriate bits and guides for smooth, consistent edges.
- **Grooving and Slotting:** The straight line auxiliary gauge can be used for precise straight grooves.
- **Curve Cutting and Pattern Processing:** The trimming guide wheel assists in following curves and templates.
- **DIY Carving:** Suitable for intricate carving tasks on wood and plastic sheeting.

## 6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Towallmark router.

- **Cleaning:** After each use, disconnect the power tool and clean off dust and debris from the motor housing, base, and collet area. Use a soft brush or compressed air. Do not use solvents.
- **Bit Care:** Keep router bits sharp and clean. Dull bits can cause overheating and poor cuts.
- **Carbon Brush Replacement:** The router is equipped with external carbon brushes for easy replacement. When the motor performance decreases or sparks are excessive, it may be time to replace the carbon brushes. Refer to Figure 3.5 for the location of the external carbon brush cover.



**Figure 6.1: Location of the external carbon brush access point.**

- **Storage:** Store the router in a dry, secure place out of reach of children.

## 7. Troubleshooting

Refer to this section for common issues and their solutions.

| Problem | Possible Cause | Solution |
|---|---|---|
| Router does not start. | No power supply; faulty switch; worn carbon brushes. | Check power connection. Ensure switch is ON. Replace carbon brushes if worn. |
| Excessive sparking from motor. | Worn carbon brushes; dirty commutator. | Replace carbon brushes. Clean commutator if accessible (professional service recommended). |
| Poor cutting performance or burning wood. | Dull router bit; incorrect feed rate; incorrect depth setting. | Replace or sharpen bit. Adjust feed rate. Verify depth setting. |
| Router vibrates excessively. | Loose router bit; bent bit; damaged bearings. | Ensure bit is securely tightened. Replace bent bit. Contact service for bearing issues. |

## 8. Specifications

| | |
|---|---|
| **Brand** | Towallmark |
| **Model Number** | ZTT-WOODLIBOfba0922 |
| **Material** | Aluminum |
| **Power Source** | Corded Electric |
| **Voltage** | 110V |
| **Input Power** | 800W |
| **Maximum Rotational Speed** | 30000 RPM |

| | |
|---|---|
| **Collet Size** | 1/4 inch |
| **Product Dimensions (W x H)** | 3.2"W x 7.9"H |
| **Base Type** | Fixed |




**Figure 8.1: Diagram showing the dimensions of the router.**

## 9. Warranty and Support

For warranty information or technical support, please contact Towallmark customer service. Details regarding specific warranty periods and terms are typically provided with your purchase documentation or can be found on the official Towallmark website. You can visit the official Towallmark store for more information: Towallmark Store on Amazon.

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