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- › RYOBI /
- › RYOBI 10-inch Table Saw with Folding Stand RTS12 Instruction Manual

## RYOBI RTS12

# RYOBI 10-inch Table Saw with Folding Stand RTS12 Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your RYOBI 10-inch Table Saw with Folding Stand, model RTS12. Please read and understand all instructions before operating the tool to ensure personal safety and proper function.

## 2. GENERAL SAFETY INFORMATION

**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and serious personal injury.

- Always wear eye protection that complies with ANSI Z87.1.
- Wear hearing protection during extended periods of operation.
- Keep 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.
- Keep children and bystanders away while operating a power tool.
- Avoid accidental starting. Ensure the switch is in the off-position before plugging in.
- Do not overreach. Keep proper footing and balance at all times.
- Use the correct tool for your application. Do not force the tool.
- Always use the blade guard and anti-kickback pawls when operating the table saw.
- Use a push stick for narrow cuts.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 3. PRODUCT OVERVIEW

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The RYOBI 10-inch Table Saw with Folding Stand (Model RTS12) is designed for precision wood cutting. It features a durable steel roll cage design and an integrated dust chute for efficient debris management.

#### Included Components:

- 10-inch Table Saw
- Folding Stand & Mounting Hardware
- 10-inch Blade (24 Carbide Teeth, General Purpose)
- Guarding Assembly (Blade Guard, Riving Knife, Anti-Kickback Pawls)
- Rip Fence
- Miter Gauge
- Push Stick
- Blade Wrenches



Figure 3.1: The RYOBI 10-inch Table Saw with its folding stand, ready for operation.

**RYOBI**



**TABLE SAW WITH FOLDING STAND**



**10" BLADE**



**PUSH STICK, MITER GAUGE, RIP FENCE, BLADE WRENCHES, AND GUARD ASSEMBLY**

Figure 3.2: Overview of the RYOBI 10-inch Table Saw, the 10-inch blade, and various accessories including the push stick, miter gauge, rip fence, blade wrenches, and guard assembly.



Figure 3.3: Close-up view of the blade guard assembly, including the anti-kickback pawls, designed for tool-free installation and enhanced safety during operation.

## 4. SETUP

### 4.1 Stand Assembly

1. Unfold the stand legs and ensure they are securely locked into position.
2. Place the table saw onto the stand, aligning the mounting holes.
3. Secure the saw to the stand using the provided mounting hardware. Ensure all bolts are tightened.

### 4.2 Blade Installation

1. **WARNING:** Disconnect the saw from the power source before installing or changing the blade.
2. Raise the blade to its maximum height.
3. Using the provided blade wrenches, loosen the arbor nut and remove the outer blade washer.
4. Place the 10-inch blade onto the arbor with the teeth pointing towards the front of the saw.
5. Reinstall the outer blade washer and arbor nut. Tighten securely with the blade wrenches.

### 4.3 Guarding Assembly Installation

1. Ensure the blade is fully lowered.
2. Install the riving knife into its slot behind the blade. Ensure it is aligned with the blade.
3. Attach the blade guard and anti-kickback pawls assembly to the riving knife. This is a tool-free process.
4. Verify that the guard moves freely and covers the blade properly.



Figure 4.1: Various components including the blade guard, riving knife, anti-kickback pawls, 10-inch blade, rip fence, miter gauge, and blade wrenches, ready for assembly.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power Connection

Connect the saw to a standard 120V AC outlet. The saw operates on a corded electric power source with a wattage of 1800W.

## 5.2 Adjusting Blade Height and Angle

- **Blade Height:** Use the height adjustment wheel to raise or lower the blade. For optimal cutting, the blade should extend approximately 1/8 inch above the workpiece.
- **Blade Angle:** Loosen the bevel lock handle and tilt the blade to the desired angle (up to 45 degrees). Tighten the bevel lock handle securely before cutting.

## 5.3 Using the Rip Fence

The rip fence is used for making straight, parallel cuts. Position the rip fence to the desired width of cut and lock it securely in place. Ensure the fence is parallel to the blade.

## 5.4 Using the Miter Gauge

The miter gauge is used for making accurate cross-cuts and angle cuts. Insert the miter gauge into the miter slot on the table. Adjust the angle as needed and lock it. Always hold the workpiece firmly against the miter gauge.

## 5.5 Safe Cutting Practices

- Always use the push stick when making narrow cuts or when your hands are close to the blade.
- Ensure the anti-kickback pawls are functioning correctly and engage the workpiece during a cut.
- Never remove the blade guard unless absolutely necessary for specific operations, and always reinstall it immediately afterward.
- Feed the workpiece slowly and steadily into the blade.
- Avoid cutting warped or twisted wood that may bind the blade.



Figure 5.1: A user demonstrating proper technique for feeding a workpiece into the RYOBI table saw, with the blade guard and push stick in use.

## 6. MAINTENANCE

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### 6.1 Blade Care

- Regularly inspect the blade for sharpness and damage. Replace dull or damaged blades promptly.
- Clean resin and pitch buildup from the blade using a suitable blade cleaner.

### 6.2 Dust Collection

Connect a shop vacuum or dust collection system to the integrated dust chute to minimize sawdust accumulation and maintain a clear work area.

### 6.3 General Cleaning

Keep the saw table and all moving parts clean and free of debris. Use a dry cloth to wipe down surfaces. Do not use solvents that may damage plastic components.

### 6.4 Safety Feature Inspection

Periodically check the blade guard, riving knife, and anti-kickback pawls for proper function and freedom of movement. Ensure all locking mechanisms for the fence and miter gauge operate correctly.

## 7. TROUBLESHOOTING

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### 7.1 Saw Does Not Start

- Check if the power cord is securely plugged into a working outlet.
- Verify that the circuit breaker has not tripped.
- Ensure the power switch is in the 'ON' position.

### 7.2 Blade Binds During Cut

- Ensure the rip fence is parallel to the blade.
- Check if the riving knife is properly aligned with the blade.
- The blade may be dull or dirty; clean or replace it.
- Avoid forcing the workpiece; feed it at a consistent, moderate rate.

### 7.3 Inaccurate Cuts

- Verify that the rip fence and miter gauge are securely locked and properly aligned.
- Check the blade for damage or excessive wobble.
- Ensure the workpiece is held firmly against the fence or miter gauge throughout the cut.

## 8. SPECIFICATIONS

Brand	RYOBI
Model Number	RTS12
Blade Length	10 Inches
Blade Material	High Speed Steel
Number of Teeth	24 (General Purpose)
Power Source	Corded Electric
Wattage	1800W
Speed	5000 RPM
Product Dimensions (L x W x H)	36" x 29" x 15"
Item Weight	50 Pounds
Special Feature	Brake
Surface Recommendation	Wood

## 9. WARRANTY AND SUPPORT

### 9.1 Limited Warranty

This RYOBI product is covered by a **Three Year Limited Warranty**. This warranty covers defects in material or workmanship from the date of purchase. Please retain your proof of purchase for warranty claims.



Figure 9.1: Official RYOBI Three Year Limited Warranty seal.

### 9.2 Customer Support

For technical assistance, replacement parts, or warranty service, please contact RYOBI customer support.

Refer to the contact information provided with your product packaging or visit the official RYOBI website for the most current support details.