

RYOBI TS1346

RYOBI 10 in. Compound Miter Saw with LED Instruction Manual

Model: TS1346 | Brand: RYOBI

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1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of the RYOBI 10 inch Compound Miter Saw with LED, Model TS1346. Please read and understand all instructions before operating the saw to ensure personal safety and proper tool function. This heavy-duty miter saw is designed for precision cutting of wood materials, featuring a 14 Amp motor delivering up to 5,500 RPM and an LED Cutline Indicator for enhanced accuracy.

2. GENERAL SAFETY INFORMATION

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.

- Always wear eye protection, hearing protection, and a dust mask when operating the miter saw.
- Ensure the workpiece is securely clamped before making any cuts.
- Keep hands and fingers away from the blade area. Never reach under the blade guard.
- Disconnect the power supply before changing blades, performing maintenance, or clearing jammed material.
- Maintain a clean and well-lit work area. 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.
- Use the correct blade for the material being cut.
- Never force the tool. Let the blade speed and sharpness do the work.
- Ensure the saw is stable and securely mounted before operation.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact RYOBI customer service.

- RYOBI 10 in. Compound Miter Saw with LED
- 24-tooth Carbide-Tipped Blade
- Blade Wrench
- Dust Bag
- Work Clamp
- Operator's Manual (this document)

4. SETUP

4.1 Unpacking and Assembly

Carefully remove all components from the packaging. Inspect the saw for any damage that may have occurred during shipping. Place the saw on a stable, level workbench or miter saw stand.

4.2 Blade Installation

1. Ensure the saw is unplugged from the power source.
2. Press the spindle lock button to prevent the blade from rotating.
3. Using the provided blade wrench, loosen the arbor nut by turning it clockwise (it is reverse-threaded).
4. Remove the outer blade washer and the old blade (if applicable).
5. Place the new 24-tooth carbide-tipped blade onto the arbor, ensuring the teeth are pointing downwards towards the front of the saw.
6. Reinstall the outer blade washer and arbor nut. Tighten the arbor nut firmly by turning it counter-clockwise while holding the spindle lock.

4.3 Dust Bag Attachment

Attach the dust bag to the dust port located at the rear of the blade housing. This helps collect sawdust and maintain a cleaner work environment.



Figure 4.1: The Ryobi 10 inch Compound Miter Saw with LED, showing its overall design and key components.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Off

To turn the saw ON, press the trigger switch on the handle. To turn it OFF, release the trigger switch. The saw features a brake for quick blade stops.

5.2 Adjusting Miter Angle

To adjust the miter angle, depress the miter lock handle and rotate the turntable to the desired angle indicated on the miter scale. Release the handle to lock the angle. Common detents are provided for quick adjustments at standard angles (e.g., 0°, 15°, 22.5°, 31.6°, 45°).

5.3 Using the LED Cutline Indicator

The integrated LED projects a shadow line onto the workpiece, indicating the exact cutting path of the blade. Align your pencil mark with this shadow line for precise cuts. Ensure the LED is clean for optimal visibility.

5.4 Making Cuts

1. Place the workpiece firmly against the fence and the saw table.
2. Secure the workpiece with the work clamp to prevent movement during the cut.

3. Lower the blade slowly into the workpiece, allowing the blade to reach full speed before engaging the material.
4. Maintain a steady, controlled feed rate. Do not force the saw.
5. Once the cut is complete, allow the blade to stop completely before raising the saw arm.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your miter saw. Always disconnect the saw from the power source before performing any maintenance.

6.1 Cleaning

- After each use, clean the saw with a soft cloth to remove sawdust and debris.
- Use compressed air to clear dust from motor vents and moving parts.
- Periodically empty and clean the dust bag for efficient dust collection.

6.2 Blade Care

- Inspect the blade regularly for dullness, cracks, or missing teeth. Replace damaged blades immediately.
- Clean resin and pitch buildup from the blade using a blade cleaner.

6.3 Lubrication

The saw's internal components are factory-lubricated and generally do not require additional lubrication. Refer to the full operator's manual for specific lubrication points if necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Tripped circuit breaker	Check power cord and outlet; Contact service center; Reset circuit breaker
Blade not cutting smoothly	Dull or dirty blade; Incorrect blade for material; Improper feed rate	Replace or clean blade; Use appropriate blade; Adjust feed rate
Excessive vibration	Loose blade; Damaged blade; Unstable mounting	Tighten arbor nut; Replace blade; Securely mount saw
LED cutline not visible	LED lens dirty; LED malfunction	Clean LED lens; Contact service center

8. SPECIFICATIONS

Model Number:

TS1346

Brand:

RYOBI

Power Source:

Corded Electric

Voltage:

120 Volts

Wattage:

1680 watts

Speed:

5500 RPM

Blade Diameter:

10 Inches

Number of Teeth:

24 (Carbide-Tipped)

Special Features:

Brake, Spindle Lock, LED Cutline Indicator

Material (Handle):

Plastic

Safety Standard:

UL safety standards

Item Dimensions (L x W x H):

10"L x 2"W x 10"H (Note: These dimensions typically refer to the blade, not the full saw. Refer to manufacturer's full specifications for tool dimensions.)

9. WARRANTY AND SUPPORT

The RYOBI 10 in. Compound Miter Saw with LED is backed by the RYOBI 3-Year Manufacturer's Warranty. For warranty claims, technical support, or to order replacement parts, please contact RYOBI customer service or visit their official website. Keep your purchase receipt as proof of purchase for warranty purposes.

EU Spare Part Availability Duration: 3 Years

For further assistance, please refer to the official RYOBI website or contact their customer support line.



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