

Yato YT-82810

Yato YT-82810 Cordless Circular Saw 18V Kit Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Yato YT-82810 Cordless Circular Saw 18V Kit. Please read this manual thoroughly before using the tool and keep it for future reference. This cordless circular saw is designed for cutting wood and similar materials, offering portability and convenience with its 18V battery system.



Figure 1.1: Yato YT-82810 Cordless Circular Saw 18V Kit.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Failure to follow these warnings may result in serious injury.

General Power Tool Safety Warnings

- **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:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Circular Saw Specific Safety:**
 - Keep hands away from the cutting area and the blade.
 - Do not reach underneath the workpiece when the blade is running.
 - Adjust the cutting depth to the thickness of the workpiece.
 - Never hold the workpiece in your hands or across your leg while cutting.
 - Check the lower guard for proper closing before each use.

3. PRODUCT COMPONENTS

The Yato YT-82810 Cordless Circular Saw 18V Kit includes the following main components:

- Cordless Circular Saw Unit
- 18V Li-Ion Battery (2.0 Ah)
- Battery Charger
- Circular Saw Blade (125mm, 24 teeth)
- Parallel Guide
- Hex Key for blade changes
- Dust Port Adapter



Figure 3.1: Overview of the Yato YT-82810 Cordless Circular Saw Kit contents.

Battery and Charger



Figure 3.2: Yato 18V Li-Ion Battery.



Figure 3.3: Yato Battery Charger.

4. SETUP

4.1 Battery Charging

Before first use, fully charge the battery. The initial charge time is approximately 3 hours. For subsequent uses, charge the battery for about one hour. Ensure the charger is connected to a suitable power outlet and the battery is correctly inserted into the charger.



Figure 4.1: Battery charger with status indicators.

4.2 Blade Installation and Adjustment

Always disconnect the battery before installing or changing the saw blade.

1. Press the spindle lock button to secure the blade.
2. Use the provided hex key to loosen the blade retaining screw.
3. Remove the outer flange and the old blade.
4. Install the new 125mm blade, ensuring the rotation direction arrow on the blade matches the arrow on the saw guard.
5. Replace the outer flange and tighten the blade retaining screw firmly with the hex key.
6. Release the spindle lock.

4.3 Depth and Angle Adjustment

The saw allows for adjustments to cutting depth and bevel angle for versatile applications.

- **Depth Adjustment:** Loosen the depth adjustment lever, set the desired cutting depth, and then firmly tighten the lever. Ensure the blade extends only slightly below the workpiece.
- **Angle Adjustment:** Loosen the bevel adjustment lever, tilt the saw base to the desired angle (up to 45 degrees), and then firmly tighten the lever.

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Figure 4.2: Illustrates depth and angle cutting capabilities.

5. OPERATING INSTRUCTIONS

5.1 General Operation

1. Ensure the battery is fully charged and securely inserted into the saw.
2. Set the desired cutting depth and angle as described in Section 4.3.
3. Secure the workpiece firmly to prevent movement during cutting.
4. Hold the saw firmly with both hands.
5. Engage the safety switch, then press the trigger to start the saw. Allow the blade to reach full speed before beginning the cut.
6. Guide the saw smoothly through the workpiece, maintaining a consistent feed rate. Do not force the saw.
7. Once the cut is complete, release the trigger and allow the blade to stop completely before lifting the saw from the workpiece.

5.2 Battery Life and Usage

The included 2.0 Ah battery provides approximately 40 minutes of continuous operation, allowing for up to 80 cuts in 40x60mm roofing material. Actual battery life may vary based on material, cutting depth, and usage intensity. The Yato 18V system allows for battery interchangeability with other compatible Yato 18V tools.



Figure 5.1: Features including versatile cutting and quick charging.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your circular saw. Always disconnect the battery before performing any maintenance.

- **Cleaning:** After each use, clean the tool with a soft cloth to remove dust and debris. Use compressed air to clear ventilation openings. Do not use solvents or abrasive cleaners.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Guard Operation:** Ensure the lower blade guard moves freely and closes properly. Lubricate pivot points if necessary.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Yato YT-82810 Cordless Circular Saw.

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly inserted; Safety switch not engaged; Tool malfunction.	Ensure battery is fully charged and correctly seated. Engage safety switch before pressing trigger. If problem persists, contact support.
Reduced cutting performance	Dull or damaged blade; Incorrect cutting depth; Overloading the motor.	Replace the blade. Adjust cutting depth. Reduce feed rate and avoid forcing the saw.

Problem	Possible Cause	Solution
Battery drains quickly	Battery not fully charged; Old or worn-out battery; Heavy-duty application.	Ensure battery is fully charged before use. Consider purchasing additional batteries for extended work. If battery life significantly degrades, it may need replacement.
Difficulty finding replacement blades (165mm)	The saw uses a 125mm blade, not 165mm. Availability of specific blade sizes can vary by region.	Verify the correct blade size (125mm) for your model. Check with authorized Yato dealers or reputable online retailers for compatible 125mm blades.

8. SPECIFICATIONS

Key technical specifications for the Yato YT-82810 Cordless Circular Saw:

Feature	Specification
Brand	Yato
Model Number	YT-82810
Voltage	18 Volts
Power Source	Battery Powered
Speed	4500 RPM
Blade Length	125 Millimetres
Number of Teeth (Blade)	24
Blade Material	Alloy Steel
Surface Recommendation	Wood
Item Weight	3.43 Kilograms
Product Dimensions (L x W x H)	10L x 5W x 5H Centimeters
Included Components	Cordless Circular Saw
Manufacturer	Yato Tools (ShanGhai) Co. Ltd
Country of Publication	China

9. WARRANTY

According to the product specifications, there is **No Warranty** provided for the Yato YT-82810 Cordless Circular Saw 18V Kit.

10. SUPPORT

For any inquiries or technical assistance regarding your Yato YT-82810 Cordless Circular Saw, please contact the manufacturer or importer:

- **Manufacturer:** Yato Tools (ShanGhai) Co. Ltd

- **Importer:** Onlinebecho Solutions India Pvt Ltd, Andheri, Mumbai

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question