RYOBI 5133005414

RYOBI 18V ONE+ Cordless 20cm Chainsaw User Manual

Model: 5133005414

Introduction

Thank you for choosing the RYOBI 18V ONE+ Cordless 20cm Chainsaw. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before first use and keep it for future reference. This chainsaw is designed for cutting small trunks and pruning trees, offering a lightweight, compact, and easy-to-handle design for precise cuts.

Important Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury.

- **Read the Manual:** Read and understand all instructions before operating the chainsaw.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, gloves, and sturdy footwear.
- **Work Area:** Keep the work area clean and well-lit. Do not operate the chainsaw in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Avoid Kickback:** Be aware of kickback, which can occur when the moving chain contacts an object at the upper tip of the guide bar or when the wood closes in and pinches the saw chain in the cut.
- **Secure Grip:** Always hold the chainsaw firmly with both hands when operating.
- **Battery Safety:** Use only RYOBI ONE+ 18V batteries and chargers. Do not expose batteries to water or extreme temperatures.
- **Maintenance:** Regularly inspect the chainsaw for damage or wear. Ensure the chain is sharp and properly tensioned.

Product Components

Familiarize yourself with the parts of your RYOBI 18V ONE+ Cordless 20cm Chainsaw.



Figure 1: Front view of the RYOBI 18V ONE+ Cordless 20cm Chainsaw, highlighting the bar, chain, and main housing.



Figure 2: Back view of the chainsaw, showing the auxiliary handle and battery slot.

- **Guide Bar:** The metal bar that guides the saw chain. (20cm length)
- **Saw Chain:** The cutting chain that rotates around the guide bar.
- **Front Handle:** For stable two-hand operation.
- **Rear Handle:** Contains the trigger and safety switch.
- **Chain Tensioning Key:** Stored inside the auxiliary handle for quick access.
- **Oil Cap:** For the manual lubrication system.

- **Battery Port:** For inserting the 18V ONE+ battery.

Setup and Assembly

Before operating your chainsaw, ensure it is properly assembled and prepared.

1. Battery Installation

1. Ensure the chainsaw is turned off and the chain brake is engaged.
2. Align the RYOBI 18V ONE+ battery with the battery port on the chainsaw.
3. Slide the battery into the port until it clicks securely into place.
4. To remove, press the battery release tabs and pull the battery out.



Figure 3: The RYOBI ONE+ battery system, compatible with your chainsaw.

2. Chain and Bar Assembly (if not pre-assembled)

Refer to the detailed diagrams in your printed manual for precise steps. Generally, this involves:

- Removing the chain cover.
- Placing the chain around the guide bar, ensuring the cutting edges face the correct direction.
- Mounting the guide bar and chain onto the chainsaw body.
- Replacing the chain cover and hand-tightening the nuts.

3. Chain Tensioning

Proper chain tension is crucial for safe and efficient operation. This model features a robust keyed chain tensioning system.

1. Locate the chain tensioning key stored inside the auxiliary handle.
2. Loosen the bar nuts slightly with the key.
3. Turn the tensioning screw (usually located on the side of the bar) clockwise to tighten the chain or counter-clockwise to loosen it.
4. The chain is correctly tensioned when it can be pulled away from the guide bar by about 1/8 inch (3mm) at the center, but still snaps back into place.
5. Once tensioned, tighten the bar nuts securely.

4. Manual Lubrication System

This chainsaw uses a manual lubrication system. Apply oil directly to the bar and chain before and during use.

- Use only recommended bar and chain oil.
- Locate the oil cap and fill the reservoir.
- Periodically apply oil to the chain and bar during operation to ensure smooth cutting and extend component life.

Operating Instructions

Follow these guidelines for safe and effective operation of your chainsaw.

Starting the Chainsaw

1. Ensure the battery is fully charged and securely installed.
2. Engage the chain brake (push forward).
3. Hold the chainsaw firmly with both hands.
4. Disengage the chain brake (pull back).
5. Press the safety lock-out button (if present) and then squeeze the trigger to start the chain.

Cutting Techniques

- **Pruning:** For pruning branches, support the branch if possible to prevent pinching. Make relief cuts to avoid tearing bark.
- **Small Trunks:** For cutting small trunks, ensure the log is stable and cannot roll. Cut from the top down (overbucking) or bottom up (underbucking) depending on the tension in the wood.
- **Avoid Kickback:** Never cut with the tip of the guide bar. Always use the bottom or top edge of the bar.
- **Maintain Control:** Keep a balanced stance and firm grip. Do not overreach.



Figure 4: The RYOBI chainsaw positioned on a bush, demonstrating its compact size for pruning tasks.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your chainsaw.

Cleaning

- Always remove the battery before cleaning.
- Use a brush or compressed air to remove sawdust and debris from the chain, guide bar, and motor housing.
- Clean the chain brake mechanism to ensure it operates freely.

Chain Lubrication

- As this model has a manual lubrication system, ensure you apply bar and chain oil frequently during operation.
- Check the oil level before each use.

Chain Sharpening

- A sharp chain is essential for safe and efficient cutting.
- Sharpen the chain regularly using a round file of the correct diameter (refer to chain specifications).
- Alternatively, have the chain professionally sharpened.

Guide Bar Maintenance

- Periodically remove the guide bar and clean the groove to remove sawdust and debris.
- Flip the guide bar regularly to ensure even wear.

Troubleshooting

This section addresses common issues you might encounter with your chainsaw.

Problem	Possible Cause	Solution
Chainsaw does not start.	Battery not charged or not inserted correctly. Chain brake engaged.	Charge battery and reinsert. Disengage chain brake.
Chain not cutting efficiently.	Dull chain. Incorrect chain tension. Insufficient lubrication.	Sharpen or replace chain. Adjust chain tension. Apply more bar and chain oil.
Chain stops during operation.	Overload protection activated. Battery low.	Reduce cutting pressure. Recharge or replace battery.
Excessive vibration.	Loose chain. Damaged chain or bar.	Adjust chain tension. Inspect chain and bar for damage and replace if necessary.

If the problem persists after attempting these solutions, please contact RYOBI customer support.

Specifications

Feature	Detail
Model Number	5133005414
Voltage	18V
Bar Length	20 cm (8 inches)
Chain Speed	4.6 m/s
Chain Pitch	9.53 mm

Feature	Detail
Gauge	1.09 mm
Weight (with battery pack EPTA)	2.8 kg (6.17 lbs)
Power Source	Battery Powered
Battery Type	Lithium Ion (1 required, not included)
Charger Included	No
Certification	CE

Warranty and Support

RYOBI products are manufactured to high quality standards and are backed by a comprehensive warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official RYOBI website.
Customer Support:

- For technical assistance, spare parts, or service, please contact RYOBI customer service.
- Have your model number (5133005414) and serial number ready when contacting support.
- You can find contact information on the RYOBI official website or in your product packaging.

EU Spare Part Availability Duration: 5 Years

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

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