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Ecarke Power Mini Chainsaw

Ecarke Electric Mini Chainsaw User Manual

Model: Power Mini Chainsaw - Compatible with Milwaukee 18V Batteries

1. Introduction

Thank you for choosing the Ecarke Electric Mini Chainsaw. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your tool. Please read it thoroughly before use and keep it for future reference. This chainsaw is designed for pruning trees, cutting branches, and other light to medium wood cutting tasks.

2. Safety Information

Always prioritize safety when operating power tools. Failure to follow safety instructions can result in serious injury or property damage.

General Safety Precautions:

- **Wear appropriate personal protective equipment (PPE):** This includes safety goggles, gloves, and sturdy footwear.
- **Keep work area clear:** Ensure no bystanders, especially children or pets, are near the cutting area.
- **Inspect the tool before each use:** Check for loose parts, damaged chains, or any other issues.
- **Maintain a firm grip:** Always hold the chainsaw with both hands during operation.
- **Avoid kickback:** Be aware of the chain's rotation direction and avoid cutting with the tip of the guide bar.
- **Dual Safety Locks:** The electric saw is equipped with dual safety locks. Both the safety lock and the start button must be pressed simultaneously to start the saw, preventing accidental startup.
- **Chain Saw Guard:** The integrated chain saw guard helps prevent wood chips from flying towards the user.



Image: Dual Safety Protection features, including a hand protection guard and a splash/kickback guard.

3. Package Contents

Please check the package for the following items. If any items are missing or damaged, contact customer support.

- 1 x Plastic Carrying Case
- 1 x Ecarke Mini Electric Chainsaw (Tool Only)
- 1 x 6-inch Guide Plate
- 1 x 8-inch Guide Plate
- 1 x 6-inch Saw Chain
- 1 x 8-inch Saw Chain
- 1 x Guide Plate Cover
- 1 x Safety Goggles
- 1 x Oil Bottle (empty, oil not included)

Note: Battery and charger are NOT included. This tool is compatible with Milwaukee 18V batteries (models 48-11-1815, 48-11-1820, 48-11-1830, 48-11-1840, 48-11-1850, 48-11-1852, 48-11-1862, 48-11-1865, 48-11-1880 and more).



Image: Important notice that battery and charger are not included.



Image: Compatibility with Milwaukee 18V batteries.

4. Setup

4.1. Chain and Guide Plate Installation (Tool-Free)

The Ecarke Mini Chainsaw features a tool-free chain adjustment system for easy installation and replacement.

1. **Unscrew the Protective Cover:** Rotate the knob on the side of the chainsaw counter-clockwise to loosen and remove the protective cover.
2. **Fit the Saw Chain onto the Guide Bar:** Ensure the chain teeth are facing the correct cutting direction as indicated on the guide bar.
3. **Align the Chain with the Sprocket:** Place the guide bar with the chain onto the chainsaw body, ensuring the chain engages with the drive sprocket.
4. **Secure the Protective Cover:** Reinstall the protective cover and tighten the knob clockwise until secure. Ensure the chain has proper tension; it should be snug but still able to move freely around the guide bar.



Image: Step-by-step guide for tool-free chain installation.



Image: Detailed steps for tool-free chain installation.

4.2. Automatic Oiler System Setup

The chainsaw features an automatic oiler system to ensure continuous lubrication of the chain.

1. **Locate the Oil Tank:** Identify the oil tank cap on the chainsaw body.
2. **Fill with Lubricant:** Carefully pour appropriate chain lubricant (not included) into the oil tank using the provided oil bottle. The oiling port has been enlarged to 13mm for easier filling.
3. **Secure the Cap:** Close the oil tank cap tightly.

The system will automatically lubricate the chain during operation, reducing wear and noise. One filling is typically sufficient for a full day's operation.



Image: Filling the automatic lubrication system.



Image: Automatic lubrication system in detail.

5. Operating Instructions

5.1. Attaching the Battery

Insert a charged Milwaukee 18V battery into the battery slot at the base of the chainsaw handle until it clicks into place.

5.2. Starting the Chainsaw

To start the chainsaw, simultaneously press the safety lock button and the trigger switch. Release the safety lock button once the saw is running, but keep the trigger switch pressed to maintain operation.

5.3. Cutting Techniques

- **Hold Firmly:** Always hold the chainsaw with both hands, maintaining a balanced stance.
- **Start Slowly:** Allow the chain to reach full speed before engaging with the wood.
- **Apply Gentle Pressure:** Let the saw do the work. Do not force the chain through the wood.
- **Avoid Kickback:** Be mindful of the guide bar tip. Cutting with the tip can cause sudden upward movement (kickback).
- **Branch Cutting:** For smaller branches, cut from the top down. For larger branches, make an undercut first to prevent pinching, then complete the cut from the top.



Image: Examples of chainsaw applications for trees and branches.



Image: The 6-inch and 8-inch guide bars for varied cutting tasks.

Your browser does not support the video tag.

Video: Official product video demonstrating the Ecarke Chainsaw's features and use with both 6-inch and 8-inch guide bars.

6. Maintenance

6.1. Chain Tension Adjustment

Regularly check chain tension. A properly tensioned chain should be snug against the guide bar but still allow you to pull it freely by hand. Adjust tension using the tool-free knob as described in the installation section.

6.2. Chain Lubrication

Ensure the automatic oiler system is always filled with appropriate chain lubricant. Check the oil level before each use. Proper lubrication is critical for chain longevity and cutting performance.

6.3. Cleaning and Storage

- **Disconnect Battery:** Always remove the battery before cleaning or performing any maintenance.
- **Clean Debris:** Use a brush or compressed air to remove sawdust and debris from the guide bar, chain, and motor housing.
- **Store Properly:** Store the chainsaw in its plastic case in a dry, secure location, out of reach of children.

7. Troubleshooting

Problem	Possible Cause	Solution
Chainsaw does not start	Battery not charged or improperly inserted; Safety lock not engaged with trigger.	Ensure battery is fully charged and correctly inserted. Press safety lock and trigger simultaneously.
Chain not moving smoothly	Chain tension too tight; Lack of lubrication; Damaged chain.	Adjust chain tension. Refill oil tank. Inspect and replace chain if damaged.
Reduced cutting performance	Dull chain; Incorrect chain direction; Insufficient power.	Sharpen or replace chain. Verify chain direction. Ensure battery is fully charged.
Excessive vibration or noise	Loose components; Damaged chain or guide bar.	Check all fasteners. Inspect chain and guide bar for damage and replace if necessary.

8. Specifications

Feature	Specification
Brand	Ecarke
Model Number	Power Mini Chainsaw
Compatible Battery	Milwaukee 18V (e.g., 48-11-1815, 48-11-1820, 48-11-1830, 48-11-1840, 48-11-1850, 48-11-1852, 48-11-1862, 48-11-1865, 48-11-1880)
Blade Material	Manganese Steel
Guide Bar Sizes	6-inch & 8-inch
Cutting Speed	Up to 32 ft/s
Output Power	850W (Brushless Motor)
Weight (Tool Only)	Approximately 2.7 pounds (1.22 kg)

Feature	Specification
Automatic Oiler System	Yes
Safety Features	Dual Safety Locks, Chain Saw Guard

9. Warranty and Support

Ecarke provides a **2-year warranty** for this electric chainsaw. This warranty covers manufacturing defects and ensures the best experience with your product.
For any issues, questions, or warranty claims, please contact Ecarke customer support. We are committed to resolving any concerns within 24 hours.
You may also consider purchasing extended protection plans for additional coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly renewal)

For more information, visit the Ecarke Store on Amazon.

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