

Greenworks 20312

Greenworks 40V 16-Inch Brushless Cordless Chainsaw User Manual

Model: 20312

1. INTRODUCTION

This user manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Greenworks 40V 16-Inch Brushless Cordless Chainsaw. This powerful and eco-friendly tool is designed for heavy-duty outdoor tasks such as tree trimming, tree felling, firewood cutting, and general yard maintenance. It features a robust brushless motor for efficiency and durability, and operates on a 4.0Ah battery, offering a gas-free, low-noise experience without the need for pull cords or complex maintenance.

2. SAFETY INFORMATION

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

- **Read the Manual:** Before operating the chainsaw, thoroughly read and understand all instructions and safety warnings in this manual.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses or goggles, hearing protection, heavy-duty gloves, sturdy footwear, and leg protection (chaps).
- **Work Area:** Ensure your work area is clear of obstacles, bystanders, and pets. Maintain a stable footing and be aware of your surroundings.
- **Secure Grip:** Always hold the chainsaw firmly with both hands, maintaining a balanced stance.
- **Kickback Awareness:** Be aware of potential kickback, which can occur when the moving chain at the tip of the guide bar contacts an object, or when the wood closes in and pinches the saw chain in the cut.
- **Battery Safety:** Use only the specified Greenworks 40V battery and charger. Do not expose batteries to water or extreme temperatures.
- **Maintenance:** Regularly inspect the chainsaw for damage, loose parts, or wear. Perform maintenance as described in this manual.

3. PRODUCT OVERVIEW

The Greenworks 40V 16-Inch Brushless Cordless Chainsaw is engineered for performance and ease of use. Key components

include:

- **16-Inch Bar and Chain:** A durable Oregon bar and chain designed for efficient cutting.
- **Brushless Motor:** Provides increased power, longer runtime, and extended motor life compared to brushed motors.
- **Chain Brake:** A safety mechanism designed to stop the chain quickly in the event of kickback.
- **Automatic Oiler:** Automatically applies oil to the bar and chain during operation to ensure smooth performance and prolong chain life.
- **Tool-Less Tensioning:** Allows for quick and easy adjustment of chain tension without the need for additional tools.
- **4.0Ah Battery and Charger:** Provides reliable power and convenient recharging for extended use.
- **Ergonomic Design:** Lightweight and balanced for reduced user fatigue during prolonged operation.



COMPACT & LIGHTWEIGHT DESIGN

EASY TO USE, TRANSPORT & STORE

Figure 3.1: Key components of the Greenworks 40V 16-inch Chainsaw, including the flip-up cap oiler, wrap-around handle, chain brake, automatic chain lubrication, 16-inch bar & chain, powerful brushless motor, tool-free chain tensioning, easy 2-step starting system, and ergonomic overmolded grip.



Figure 3.2: Illustration of the brushless motor technology, which provides more power, longer runtimes, quiet operation, and extended motor life.

4. SETUP

4.1 Charging the Battery

Before first use, fully charge the 40V 4.0Ah Lithium-Ion battery. Connect the charger to a standard power outlet and insert the battery. The charger's indicator lights will show the charging status. A full charge typically takes approximately 2 hours.

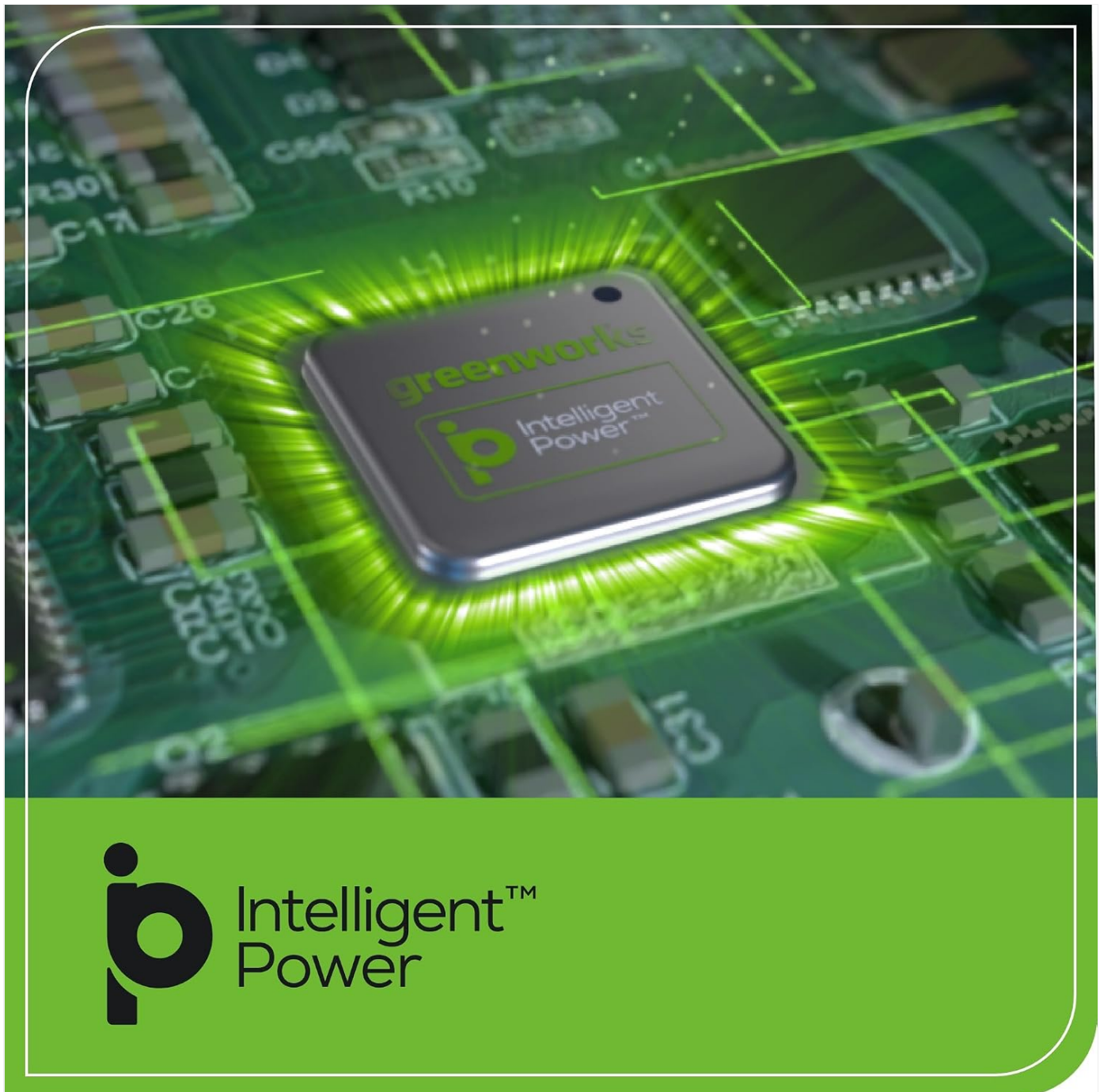


Figure 4.1: The 40V 4.0Ah battery and charger included with the chainsaw.

4.2 Installing the Battery

Once charged, slide the battery pack into the battery compartment on the chainsaw until it clicks securely into place. Ensure it is fully seated to prevent accidental dislodgement during operation.

4.3 Adding Chain Oil

The chainsaw features an automatic oiler. Before each use, fill the oil reservoir with high-quality bar and chain oil. The transparent oil fill window allows you to monitor the oil level. Do not operate the chainsaw without sufficient chain oil, as this can cause damage to the bar and chain.

40V



4.0 AH BATTERY AND CHARGER INCLUDED

Figure 4.2: The automatic oiler system, which ensures continuous lubrication of the bar and chain.

4.4 Adjusting Chain Tension

The chainsaw is equipped with tool-less chain tensioning for convenience. To adjust, loosen the side knob, then turn the tensioning ring to achieve the correct chain tension. The chain should be snug against the guide bar but still able to be pulled freely by hand. Retighten the side knob securely after adjustment.



Figure 4.3: The tool-less tensioning system for easy bar and chain maintenance.

5. OPERATING INSTRUCTIONS

5.1 Starting the Chainsaw

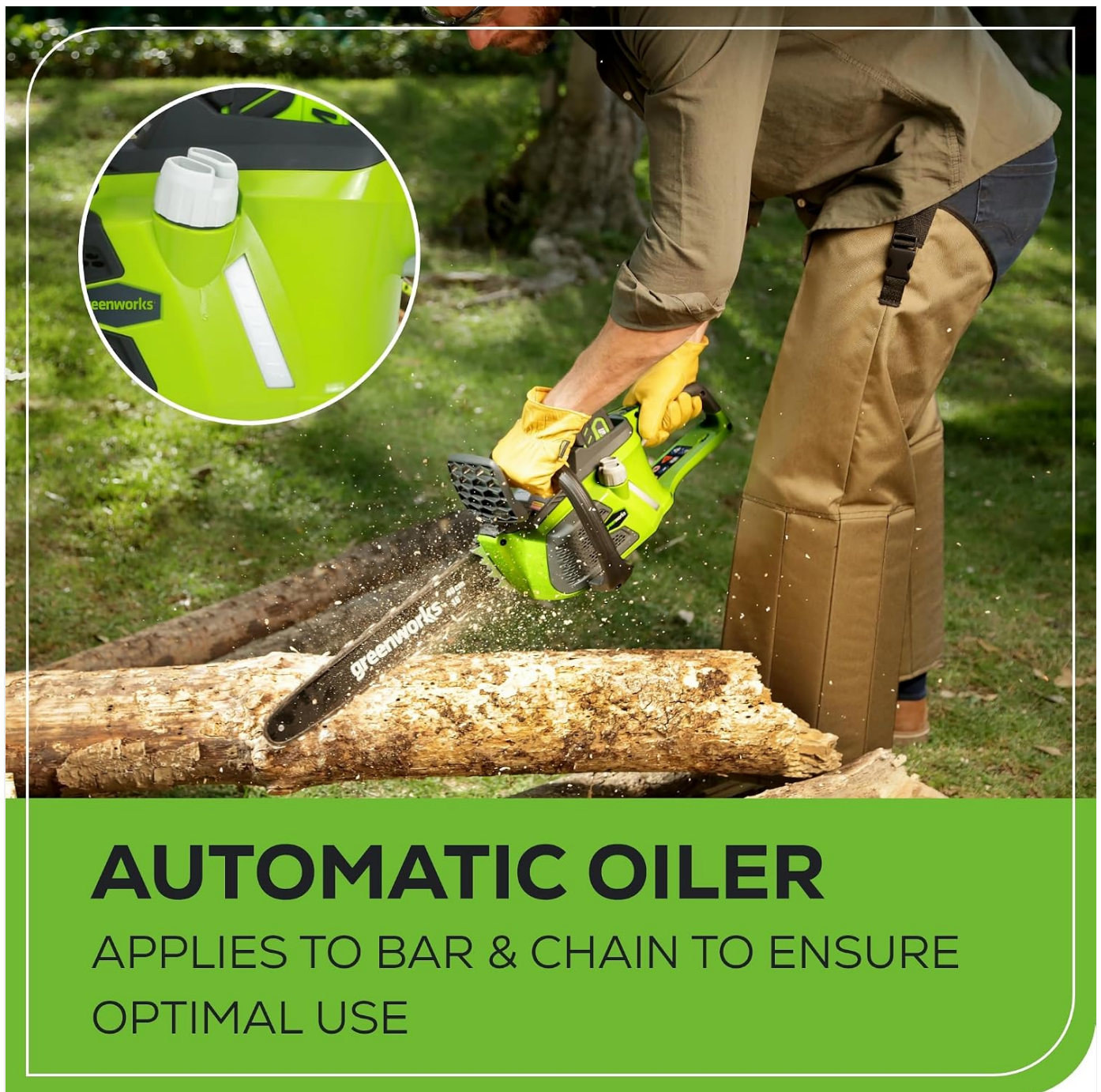
The Greenworks 40V chainsaw features an easy push-button start. Ensure the battery is installed and the chain brake is disengaged. Press the safety lock-out button and then squeeze the trigger to start the chainsaw. There is no need for priming, choking, or pull-starting.



Figure 5.1: The easy start feature, eliminating the need for priming, choking, or pulling.

5.2 Cutting Techniques

Always maintain a firm grip with both hands and keep the chainsaw close to your body for better control. When cutting, allow the saw to do the work; do not force it. For felling trees, plan your escape route and ensure the area is clear. For limbing, work from the bottom up, removing smaller branches first. Be cautious of branches under tension that may spring back.



AUTOMATIC OILER

APPLIES TO BAR & CHAIN TO ENSURE
OPTIMAL USE

Figure 5.2: A user demonstrating the compact and lightweight design while cutting a log.



Figure 5.3: The chainsaw's versatile cutting power, capable of handling trees and limbs up to 28 inches in diameter.



Figure 5.4: The chainsaw can achieve up to 140 cuts per charge on 4x4 inch lumber, demonstrating its efficiency.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your chainsaw.

6.1 Cleaning

After each use, clean the chainsaw thoroughly. Remove sawdust, chips, and debris from the guide bar, chain, and motor housing. Use a brush or compressed air. Do not use water directly on electrical components.

6.2 Chain and Bar Care

Regularly check the chain for sharpness and proper tension. A dull chain will not cut efficiently and can increase the risk of kickback. Sharpen or replace the chain as needed. Rotate the guide bar periodically to ensure even wear.

6.3 Oiler System Check

Ensure the automatic oiler is functioning correctly by observing oil flow from the chain during operation. Keep the oil reservoir filled with appropriate bar and chain oil.

6.4 Battery Storage

Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure the battery is partially charged (around 50%) to maintain its health. The battery is designed to hold its charge for over 12 months.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Chainsaw does not start.	Battery not charged or improperly installed. Chain brake engaged.	Ensure battery is fully charged and securely inserted. Disengage the chain brake.
Chain not cutting efficiently.	Dull chain. Incorrect chain tension.	Sharpen or replace the chain. Adjust chain tension as per Section 4.4.
Chain loosens frequently.	Improper tensioning. New chain stretching.	Ensure side knob is tightened securely after tensioning. New chains may require more frequent adjustments initially.
No oil on chain.	Oil reservoir empty. Oiler clogged.	Refill oil reservoir. Clean the oiler port and guide bar groove.

8. SPECIFICATIONS

Brand: Greenworks
Model Number: 20312
Power Source: Battery Powered (40V Lithium-Ion)
Chain Length: 16 Inches
Motor Type: Brushless
Battery Capacity: 4.0Ah (included)
Item Weight: 10.36 Pounds
Product Dimensions (L x W x H): 31" x 9" x 8.5"
UPC: 841821011345

9. WARRANTY AND SUPPORT

Greenworks stands behind the quality of its products. This Greenworks 40V 16-Inch Brushless Cordless Chainsaw comes with a **3-Year Tool & Battery Warranty**.



Figure 9.1: Greenworks 3-Year Tool & Battery Warranty.

For warranty claims, technical support, or to purchase replacement parts, please contact Greenworks customer service through their official website or authorized retailers. Keep your proof of purchase for warranty validation.

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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