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Makita UC012GT102

Makita 40V max 400mm Cordless Chainsaw Instruction Manual

Model: UC012GT102

1. Introduction

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Makita 40V max 400mm Cordless Chainsaw (Model UC012GT102). Please read this manual thoroughly before using the chainsaw to ensure proper handling and to prevent injury or damage.

2. Safety Instructions

Always prioritize safety. Chainsaws are powerful tools that can cause serious injury if not handled correctly. Adhere to all local safety regulations and the following guidelines:

- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles, hearing protection, a hard hat, heavy-duty gloves, and chainsaw protective trousers and boots.
- **Work Area:** Ensure the work area is clear of bystanders, pets, and obstacles. Maintain good footing and balance. Do not operate in wet conditions or near flammable liquids/gases.
- **Pre-Operation Check:** Before each use, inspect the chainsaw for loose parts, damage, or wear. Ensure the chain is sharp and properly tensioned, and the chain oil reservoir is filled.
- **Battery Safety:** Use only Makita 40V max XGT batteries and chargers. Do not expose batteries to water, heat, or direct sunlight.
- **Kickback Prevention:** Be aware of kickback. Avoid cutting with the tip of the guide bar. Maintain a firm grip with both hands.
- **Transport and Storage:** Always remove the battery before transporting or storing the chainsaw. Use the guide bar cover. Store in a dry, secure place out of reach of children.

3. Setup

3.1 Battery Installation

1. Ensure the chainsaw is switched off.
2. Align the battery with the battery slot on the chainsaw.

3. Slide the battery into the slot until it clicks securely into place.
4. To remove, press the release button on the battery and slide it out.

3.2 Filling Chain Oil Reservoir

The chainsaw requires chain oil for proper lubrication of the chain and guide bar. Use only high-quality chain oil.

- Place the chainsaw on a flat, stable surface.
- Unscrew the oil tank cap. The large opening facilitates easy filling.
- Fill the reservoir with chain oil, monitoring the level through the sight glass. The reservoir capacity is 0.26 L.
- Screw the cap back on tightly.



Image 1: Makita 40V max 400mm Cordless Chainsaw. This image displays the overall design of the chainsaw, highlighting its teal and black color scheme, the XGT battery system, and the guide bar with the chain.

3.3 Chain and Guide Bar Installation/Tensioning

Refer to the detailed diagrams in the manufacturer's full manual for precise steps. Ensure the chain is correctly oriented and tensioned according to the guide bar length (40 cm / 16 inches) and chain specifications (3/8" pitch, 0.043" gauge / 1.1 mm gauge).

4. Operating Instructions

4.1 Starting the Chainsaw

1. Ensure the battery is fully charged and installed, and the chain oil reservoir is full.
2. Hold the chainsaw firmly with both hands.
3. Engage the chain brake (if applicable, disengage for operation).
4. Press the power button, then squeeze the trigger switch to start the chain.

4.2 Cutting Techniques

Always maintain a stable stance and firm grip. Let the chainsaw do the work; do not force it. The maximum chain speed without load is 24.7 m/s.

- **Felling:** Plan your escape route. Make a notch cut on the side of the tree in the direction of the fall, then a felling cut from the opposite side.
- **Limbing:** Remove branches from a fallen tree. Work from the base towards the top, cutting smaller branches first.
- **Bucking:** Cutting a fallen log into sections. Be aware of pinching and rolling logs.



Image 2: A user operating the Makita 40V max Cordless Chainsaw to cut a log. The user is wearing appropriate safety gear, including gloves and protective clothing, demonstrating safe operation practices.

4.3 Automatic Power Cut-off

The chainsaw features an automatic power cut-off function designed to conserve battery life and prevent unintentional starts. If the chainsaw is idle for a certain period, it will automatically power down. To restart, press the power button again.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your chainsaw.

5.1 Cleaning

- Always remove the battery before cleaning.
- Remove sawdust, wood chips, and debris from the chain, guide bar, and motor housing.
- Clean the air vents to prevent overheating.

5.2 Chain Sharpening and Tensioning

- A sharp chain is crucial for efficient and safe cutting. Sharpen the chain regularly or replace it when dull.
- Check chain tension frequently. A properly tensioned chain should be snug against the guide bar but still allow you to pull it around by hand.

5.3 Guide Bar Maintenance

- Clean the guide bar groove to remove accumulated sawdust and debris.
- Flip the guide bar periodically to ensure even wear.

5.4 Chain Oil Reservoir

- Regularly check the chain oil level during operation using the sight glass.
- Refill as needed to ensure continuous lubrication.

6. Troubleshooting

Problem	Possible Cause	Solution
Chainsaw does not start	Battery not installed correctly; Battery discharged; Power button not pressed; Automatic power cut-off engaged.	Ensure battery is clicked in; Charge battery; Press power button; Press power button again to reactivate.
Chain does not move	Chain brake engaged; Chain tension too tight; Obstruction in guide bar.	Disengage chain brake; Adjust chain tension; Clear any obstructions.
Poor cutting performance	Dull chain; Incorrect chain tension; Insufficient chain oil.	Sharpen or replace chain; Adjust chain tension; Fill chain oil reservoir.
Excessive vibration	Loose chain; Damaged chain or guide bar.	Adjust chain tension; Inspect and replace damaged components.

7. Specifications

- **Model:** UC012GT102
- **Brand:** Makita
- **Battery Voltage:** 40V max XGT
- **Guide Bar Length:** 400 mm (16 inches)
- **Chain Pitch:** 3/8 inches
- **Chain Gauge:** 0.043 inches (1.1 mm)

- **Max. Chain Speed (no load):** 24.7 m/s
- **Chain Oil Tank Capacity:** 0.26 L
- **Weight (with battery, EPTA):** 6.0 - 6.5 kg
- **Dimensions (L x W x H):** 4446 x 233 x 274 mm *(Note: This dimension may be a typographical error in the source data)*
- **Ingress Protection:** WetGuard / IPX4 (excellent sealing performance)

8. Warranty and Support

Makita products are manufactured to high-quality standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Makita website.
For technical support, service, or spare parts, please contact your authorized Makita service center or dealer. When contacting support, please have your model number (UC012GT102) and serial number ready.
Official Makita Website: www.makita.com

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