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› Makita DUC122RTE Top Handle Cordless Chainsaw User Manual

Makita DUC122RTE

Makita DUC122RTE Top Handle Cordless Chainsaw User Manual

Model: DUC122RTE | Brand: Makita

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DUC122RTE Top Handle Cordless Chainsaw. Please read this manual thoroughly before using the product to ensure proper handling and to prevent injury or damage.

Important Safety Notice: This top handle cordless chainsaw is only approved for commercial users with special training. Improper use can lead to serious injury.

2. SAFETY INFORMATION

Operating a chainsaw requires strict adherence to safety protocols. Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and sturdy footwear. Ensure your work area is clear of obstructions and bystanders.

- **Read the Manual:** Understand all instructions and warnings before operation.
- **Trained Users Only:** This top handle chainsaw is intended for commercial users who have received special training.
- **Inspect Before Use:** Check the chainsaw for any damage, loose parts, or dull chain before each use.
- **Secure Grip:** Always maintain a firm grip with both hands on the chainsaw handles.
- **Chain Brake:** Familiarize yourself with the chain brake mechanism and ensure it functions correctly.
- **Battery Safety:** Use only Makita-approved batteries and chargers. Do not expose batteries to water or extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your transport case:

- 1x Makita DUC122RTE Top Handle Cordless Chainsaw
- 1x Transport Case
- 1x Quick Charger DC18RC
- 2x Battery BL1850 (18V, 5.0 Ah)

- 1x Saw Chain (11.5 cm, 1.3 mm, 1/4 inch)
- 1x Saw Chain Guard (21x10 cm)
- 1x Saw Rail (11.5 cm, 1.3 mm, 1/4 inch)
- 1x Handle
- 1x File (4)
- 1x Chainsaw Adhesive Oil (100 ml)



Image 1: The Makita DUC122RTE Top Handle Cordless Chainsaw kit, including the chainsaw, two batteries, a charger, and a transport case.

4. COMPONENTS AND FEATURES

The Makita DUC122RTE is designed for efficient and safe cutting with several key features:

- **Powerful Motor:** Provides high chain speed for fast and clean cuts.
- **Automatic Chain Lubrication:** Ensures consistent lubrication of the saw chain during operation, reducing wear and extending chain life.
- **Tool-Free Chain Adjustment:** Allows for quick and easy saw chain change and tension adjustment without additional tools.
- **Engine Brake:** Stops the saw chain within 0.5 seconds for enhanced safety.
- **Ergonomic Top Handle Design:** Provides comfortable and controlled operation for trained commercial users.



Image 2: Side view of the Makita DUC122RTE chainsaw, highlighting the saw chain and guide bar.



Image 3: Rear view of the Makita DUC122RTE chainsaw, showing the battery insertion slot and the top handle.

5. SETUP

5.1. Battery Charging and Installation

1. Insert the battery into the DC18RC quick charger. Ensure the battery is fully seated.
2. Connect the charger to a power outlet. The charging indicator lights will show the charging status.
3. Once fully charged, remove the battery from the charger.
4. Align the charged battery with the battery slot on the chainsaw (refer to Image 3).
5. Slide the battery into the slot until it clicks securely into place.



Image 4: The Makita DC18RC quick charger and two 18V 5.0Ah Lithium-Ion batteries.

5.2. Saw Chain and Rail Installation/Adjustment

The Makita DUC122RTE features tool-free chain adjustment.

1. Ensure the battery is removed from the chainsaw before handling the chain or rail.
2. Loosen the chain tension adjustment knob (refer to Image 5) by turning it counter-clockwise.
3. Carefully place the saw chain around the guide bar and the drive sprocket. Ensure the cutting edges of the chain are facing the correct direction.
4. Position the guide bar onto the chainsaw body.
5. Tighten the chain tension adjustment knob clockwise until the chain is snug but can still be pulled freely around the guide bar by hand. The chain should not sag on the underside of the guide bar.
6. After initial use, re-check chain tension as new chains can stretch.



Image 5: Close-up view of the tool-free chain tension adjustment knob on the Makita DUC122RTE chainsaw.

5.3. Filling Chain Oil Tank

The chainsaw features automatic chain lubrication. Ensure the oil tank is filled before each use.

1. Locate the oil tank cap on the chainsaw body.
2. Unscrew the cap and fill the tank with the provided chainsaw adhesive oil (or a suitable equivalent). The tank capacity is 80 ml.
3. Replace the cap securely.
4. One battery charge is approximately sufficient for one oil tank filling.

6. OPERATING INSTRUCTIONS

Always ensure you are wearing appropriate PPE and have received special training before operating this top handle chainsaw.

6.1. Starting the Chainsaw

1. Ensure the battery is fully charged and securely installed.
2. Hold the chainsaw firmly with both hands.
3. Disengage the chain brake by pulling the front hand guard towards the front handle until it clicks.
4. Press the lock-off button (if present) and then squeeze the trigger switch to start the motor.
5. Release the lock-off button once the motor is running.

6.2. Cutting Techniques

Always follow safe cutting practices. Avoid cutting above shoulder height. Maintain a stable stance and be aware of kickback potential.

- **Limbing:** When limbing, support the branch to prevent pinching the saw chain.
- **Felling:** For felling operations, follow established safety guidelines for directional felling and escape routes.
- **Avoid Kickback:** Be aware of the kickback zone at the tip of the guide bar. Avoid contact with this area.

6.3. Engaging the Chain Brake

The engine brake stops the saw chain within 0.5 seconds. To engage the chain brake, push the front hand guard forward until it clicks into place. This should be done immediately after completing a cut or in an emergency.

7. MAINTENANCE

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

- **Chain Lubrication:** Regularly check the chain oil level and refill as needed. The automatic lubrication system requires a full oil tank for optimal performance.
- **Chain Sharpening:** Keep the saw chain sharp using the provided file (4) or a suitable sharpening tool. A sharp chain cuts efficiently and reduces the risk of kickback.
- **Chain Tension:** Periodically check and adjust chain tension. A loose chain can derail, and an overly tight chain can cause premature wear.
- **Cleaning:** After each use, clean the chainsaw body, guide bar, and chain to remove sawdust, sap, and debris. Ensure ventilation openings are clear.
- **Storage:** Store the chainsaw in its transport case in a dry, secure location, out of reach of children and untrained individuals. Remove the battery before storage.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Makita DUC122RTE chainsaw.

| Problem | Possible Cause | Solution |
|--------------------------|--|--|
| Chainsaw does not start | Battery not charged or improperly installed; Chain brake engaged; Faulty switch | Ensure battery is charged and correctly inserted; Disengage chain brake; Contact service if switch is faulty. |
| Chain does not move | Chain brake engaged; Chain too tight; Obstruction in chain path | Disengage chain brake; Adjust chain tension; Clear any obstructions (with battery removed). |
| Poor cutting performance | Dull chain; Incorrect chain tension; Insufficient chain oil | Sharpen or replace chain; Adjust chain tension; Refill chain oil tank. |
| Chain oil not dispensing | Oil tank empty; Oil port clogged | Refill oil tank; Clean oil port (with battery removed). |

9. SPECIFICATIONS

Technical specifications for the Makita DUC122RTE Top Handle Cordless Chainsaw:

| Specification | Value |
|---------------|-----------|
| Model Number | DUC122RTE |

| Specification | Value |
|--------------------------------|---|
| Brand | Makita |
| Power Source | Battery Powered |
| Battery Voltage | 18 V |
| Battery Capacity | 5.0 Ah (Lithium Ion) |
| Rail Length | 11.5 cm (4-1/2 inches) |
| Chain Pitch | 1/4 inch |
| Chain Speed | 5 m/s |
| Oil Tank Capacity | 80 ml |
| Item Weight | 2.6 kg (incl. BL1860B battery) / 5.94 pounds |
| Product Dimensions (L x W x H) | 422 x 195 x 215 mm (16.6 x 7.7 x 8.5 inches) |
| Color | Black, Blue |
| Special Features | Charger included, Automatic Chain Lubrication, Tool-free Chain Adjustment, Engine Brake |

10. OPTIONAL PROTECTION PLANS

For extended coverage beyond the standard manufacturer's warranty, consider purchasing an optional protection plan:

- **2-Year Protection Plan:** Provides coverage for 24 months.
- **3-Year Protection Plan:** Provides coverage for 36 months.
- **Complete Protect:** A monthly plan covering all eligible past and future purchases.

Details regarding these plans, including pricing and terms, can be found at the point of purchase or through authorized retailers.

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For further assistance, please contact Makita customer support.