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Saker SK1806D

Saker Mini Chainsaw User Manual

Model: SK1806D

1. INTRODUCTION

Thank you for choosing the Saker Mini Chainsaw. This portable electric chainsaw is designed for efficient and convenient cutting tasks, featuring a powerful brushless motor and a 6-inch cutting surface. Please read this manual thoroughly before operation to ensure safe and effective use of your tool.



Image: The Saker Mini Chainsaw, model SK1806D, shown in its retail packaging alongside its various components and accessories, including batteries, charger, and chains.

2. SAFETY INSTRUCTIONS

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

2.1 General Safety Rules

- **Read the Manual:** Understand all instructions and warnings before operating the chainsaw.
- **Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and sturdy footwear. Hearing protection is recommended.
- **Work Area:** Keep the work area clean, well-lit, and free of obstructions. Do not operate in wet or damp conditions.
- **Children and Bystanders:** Keep children and bystanders at a safe distance (at least 15 feet) from the operating area.
- **Stay Alert:** Do not operate the chainsaw when tired, under the influence of drugs, alcohol, or medication.

- **Secure Grip:** Always hold the chainsaw firmly with both hands.
- **Avoid Kickback:** Be aware of the chain's rotation and potential kickback. Do not cut with the tip of the guide bar.
- **Battery Safety:** Use only the specified charger and battery pack. Do not short-circuit or incinerate batteries.

2.2 Specific Chainsaw Safety

- **Inspect Before Use:** Check the chain tension, oil level (if applicable), and ensure all parts are securely fastened.
- **Proper Cutting Technique:** Always maintain balance and a firm footing. Cut only one piece of wood at a time.
- **Transport:** Always remove the battery and engage the chain brake (if present) before transporting or storing the chainsaw.
- **Maintenance:** Disconnect the battery before performing any maintenance, cleaning, or adjustments.



Image: Illustration of the Saker Mini Chainsaw highlighting key safety and design features including an anti-splash baffle, efficient heat dissipation system, safety lock mechanism, and a comfortable ergonomic handle.

3. PRODUCT COMPONENTS

Your Saker Mini Chainsaw package includes the following items:

- Saker Mini Chainsaw Unit (6-inch)
- Rechargeable Lithium-Ion Battery (20V 1500mAh or 20V 2000mAh, quantity may vary)
- Battery Charger
- Guide Bar
- Saw Chains (multiple included)
- Safety Glasses
- Work Gloves
- Small Oil Bottle (for lubrication, oil not included)
- Screwdriver/Wrench (for initial assembly/maintenance, if not tool-free)



Image: A comprehensive view of the Saker Mini Chainsaw package contents, including the chainsaw unit, two batteries, charger, two spare chains, safety glasses, gloves, and a small oil bottle.

4. SETUP AND ASSEMBLY

4.1 Battery Charging

1. Connect the charger to a standard power outlet.
2. Insert the battery pack into the charger.
3. Allow the battery to charge fully. The indicator light on the charger will change (e.g., from red to green) when charging is complete.
4. Disconnect the charger from the power outlet and remove the battery.

Note: For optimal battery life, fully charge the battery before first use and after each use. If storing for a long period, ensure the battery is fully charged.

4.2 Chain and Guide Bar Installation (Tool-Free)

The Saker Mini Chainsaw features a tool-free chain installation and tension adjustment system.

1. Ensure the battery is removed from the chainsaw.
2. Locate the cover knob on the side of the chainsaw. Rotate it counter-clockwise to loosen and remove the cover.
3. Place the chain around the guide bar, ensuring the cutting teeth are facing the correct direction (refer to the arrow on the guide bar or chainsaw body).
4. Align the guide bar with the sprocket on the chainsaw body and fit the chain into the groove of the sprocket.
5. Replace the cover, ensuring the guide bar pin fits into the hole on the guide bar.
6. Rotate the cover knob clockwise to secure the cover.
7. Adjust the chain tension using the chain tension knob. The chain should be snug but still able to be pulled slightly away from the guide bar (about 2-3mm).
8. Once tension is set, tighten the bar tightening knob (if present) to lock the guide bar in place.

TOOL-FREE INSTALLATION

REPLACE CHAIN WITH SCREWDRIVER



No tool is needed when replacing and tensioning the chain.

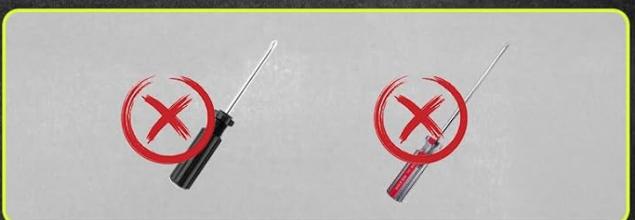


Image: A visual guide demonstrating the tool-free chain installation process, showing the cover knob, chain tension knob, and bar tightening knob for easy adjustment and replacement of the chain without additional tools.

5. OPERATING INSTRUCTIONS

5.1 Pre-Operation Checklist

- Ensure battery is fully charged and securely inserted.
- Verify chain tension is correct.
- Confirm all safety features (e.g., safety lock) are functional.
- Wear appropriate PPE (safety glasses, gloves).
- Clear the work area of debris and bystanders.

5.2 Starting and Stopping

1. **To Start:** Press and hold the safety lock button (usually located near the trigger) with your thumb, then squeeze the trigger switch with your fingers. The chain will begin to rotate.
2. **To Stop:** Release the trigger switch. The chain will stop rotating.

5.3 Cutting Techniques

- **Hold Firmly:** Always hold the chainsaw with both hands, maintaining a firm grip.
- **Positioning:** Stand to the side of the cutting path, not directly behind the chainsaw.
- **Cutting:** Allow the chainsaw to do the work. Do not force it. Apply light, steady pressure.
- **Avoid Kickback:** Never cut with the tip of the guide bar. Always use the bottom edge of the guide bar for cutting. Be aware of branches under tension.
- **Maximum Cutting Diameter:** The 6-inch guide bar allows for cutting branches up to approximately 6 inches in diameter. For larger branches, make multiple cuts or use a different tool.

HIGH-EFFICIENT



Motor Speed: **30000 RPM** | Chain Speed: **26.25 ft/s** | Maximum Output Power: **400W**

POWERFUL BRUSHLESS MOTOR IMPROVES CUTTING EFFICIENCY AND MORE DURABLE. **MAX 6 Inch**

Image: The Saker Mini Chainsaw in action, demonstrating its ability to cut through a log, highlighting its high-efficient brushless motor and maximum 6-inch cutting capacity.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Saker Mini Chainsaw.

6.1 Cleaning

- **After Each Use:** Remove the battery. Use a brush or compressed air to clean sawdust and debris from the guide bar, chain, and motor housing.
- **Guide Bar Groove:** Periodically clean the groove of the guide bar to ensure smooth chain movement.

6.2 Chain Sharpening and Replacement

- **Sharpening:** A dull chain will reduce cutting efficiency and increase strain on the motor. Sharpen the chain regularly using a suitable round file or have it professionally sharpened.
- **Replacement:** Replace the chain when it becomes excessively worn, damaged, or cannot be sharpened effectively. Refer to Section 4.2 for chain replacement instructions.

6.3 Storage

- **Long-Term Storage:** Remove the battery from the chainsaw. Clean the tool thoroughly. Store in a dry, secure place out of reach of children.
- **Battery Storage:** Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure batteries are fully charged before long-term storage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Chainsaw does not start.	Battery not charged or not inserted correctly. Safety lock not engaged.	Charge battery fully. Ensure battery is securely inserted. Press safety lock button before squeezing trigger.
Chain does not move or moves slowly.	Chain tension too tight. Chain dull or damaged. Debris in guide bar.	Adjust chain tension (loosen slightly). Sharpen or replace chain. Clean guide bar groove.
Chainsaw overheats.	Continuous heavy use. Dull chain. Blocked ventilation.	Allow chainsaw to cool down. Sharpen or replace chain. Clean ventilation slots.
Poor cutting performance.	Dull chain. Incorrect chain tension.	Sharpen or replace chain. Adjust chain tension.

8. SPECIFICATIONS

Feature	Detail
Model	SK1806D
Guide Bar Length	6 inches (15 cm)
Motor Type	Brushless Motor
Rated Power	550 Watts
Battery Voltage	20V Max
Battery Capacity	1500mAh / 2000mAh Lithium-Ion
Chain Speed	Up to 26.25 ft/s

Feature	Detail
Motor Speed	Up to 30000 RPM
Tool-Free Chain Adjustment	Yes

HIGH POWER PURE COPPER MOTOR

Make work more effective and stable

Image: An internal view of the Saker Mini Chainsaw's high-power pure copper motor, illustrating its robust design for efficient and stable operation.



UPGRADED BRUSHLESS MOTOR

- Long Lifetime ↑
- High Power ↑
- More Efficiency ↑
- Low Energy Consumption ↓
- Less Maintenance ↓



- Short Lifetime
- Power Fatigue
- High Power Consumption
- Cumbersome Maintenance

GENERAL MOTOR



Image: A comparison graphic highlighting the advantages of the upgraded brushless motor (long lifetime, high power, more efficiency, low energy consumption, less maintenance) over a general motor.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please refer to the official Saker website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Saker Official Website: [Visit the Saker Store on Amazon](#)