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> [Sun Joe 24V-X2-CS16 48-Volt IONMAX Cordless Chain Saw 16-inch Kit Instruction Manual](#)

Sun Joe 24V-X2-CS16

Sun Joe 24V-X2-CS16 48-Volt IONMAX Cordless Chain Saw 16-inch Kit Instruction Manual

Model: 24V-X2-CS16 | Brand: Sun Joe

1. INTRODUCTION AND OVERVIEW

Thank you for choosing the Sun Joe 24V-X2-CS16 48-Volt IONMAX Cordless Chain Saw. This manual provides essential information for the safe and efficient operation, maintenance, and care of your new tool. Please read it thoroughly before first use and keep it for future reference.

The Sun Joe 24V-X2-CS16 is a powerful 16-inch cordless chainsaw designed for various tree-trimming tasks. It operates on two 24-volt lithium-ion batteries, delivering 48 volts of power for cord-free convenience. Key features include a 1200 W motor, a self-lubricating bar and chain, tool-free chain tensioning, and multiple safety mechanisms.

2. IMPORTANT SAFETY INFORMATION

WARNING: Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, gloves, and sturdy footwear when operating the chainsaw. Read and understand all safety warnings and instructions before use.

- **Kick-Back Brake:** The chainsaw is equipped with a protective hand guard and kick-back brake for superior safety and control. Ensure it is functioning correctly before each use.
- **Safety Switch:** A built-in safety switch prevents accidental starts. Always engage the safety switch when the tool is not in use or during maintenance.
- **Clear Work Area:** Ensure your work area is clear of obstacles, bystanders, and pets. Maintain a firm footing and balance.
- **Battery Safety:** Use only the specified Sun Joe IONMAX 24-volt lithium-ion batteries and charger. Do not expose batteries to water or extreme temperatures.

3. PRODUCT FEATURES



Robust 1200 W Motor: Provides powerful performance for demanding cutting tasks.



16-inch Bar + Chain: Designed to cut cleanly through branches and logs up to 15.5 inches thick.



Cord-Free Operation: Powered by two 24-volt IONMAX lithium-ion batteries for maximum portability and convenience.



Onboard Auto-Oiler: A 5 fl oz oiler keeps the bar and chain fully lubricated for continuous cutting performance.



Protective Hand Guard: Enhances user safety by protecting the hand from debris and providing a kick-back brake.



Tool-Free Tensioning: Allows for quick and easy chain adjustments with just a twist of the knob.

4. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all parts listed in the packing list are present.
2. **Battery Charging:** Insert the two 24-volt IONMAX lithium-ion batteries into the quick charger. Allow them to charge fully before first use. The charger indicators will show charging status.
3. **Battery Installation:** Once charged, slide both batteries securely into the battery compartments on the chainsaw until they click into place.
4. **Chain Oil Filling:** Locate the oil reservoir cap and fill the reservoir with appropriate bar and chain oil. The onboard auto-oiler will lubricate the chain during operation. Regularly check the oil level.
5. **Chain Tensioning:** Before each use, check the chain tension. Use the tool-free tensioning knob to adjust the chain. The chain should be snug against the guide bar but still able to be pulled freely by hand.

5. OPERATING INSTRUCTIONS

Before operating, ensure you have read and understood all safety warnings and have completed the setup steps.

1. **Starting the Chainsaw:** Hold the chainsaw firmly with both hands. Engage the safety switch, then press the trigger to start the motor.
2. **Cutting Technique:** Always maintain a firm grip and stable stance. Allow the chain to reach full speed before contacting the wood. Cut with the bottom of the guide bar for optimal control and to minimize kickback. Avoid cutting with the tip of the bar.
3. **Cutting Capacity:** The chainsaw can cut through branches and logs up to 15.5 inches thick. For larger diameters, make multiple cuts.
4. **Battery Runtime:** The dual 24-volt batteries provide up to 15 minutes of reliable runtime per charge, allowing for approximately 25 cuts per charge depending on wood type and thickness.
5. **Stopping the Chainsaw:** Release the trigger to stop the motor. Engage the safety switch immediately after use.

[Official Product Demonstration Video](#)

Your browser does not support the video tag.

This video demonstrates the features and operation of the Sun Joe 24V-X2-CS16 Cordless Chain Saw, including cutting various materials and highlighting key functionalities.

6. MAINTENANCE

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

- **Chain Lubrication:** The auto-oiler system provides continuous lubrication. Always ensure the oil reservoir is filled with quality bar and chain oil before and during operation.
- **Chain Tension:** Check chain tension frequently, especially during initial use. A properly tensioned chain prevents premature wear and ensures efficient cutting.
- **Cleaning:** After each use, clean the chainsaw thoroughly. Remove sawdust, debris, and resin from the guide bar, chain, and motor housing. Use a brush and mild detergent if necessary. Ensure the battery compartments are clean and dry.
- **Chain Sharpening/Replacement:** A dull chain reduces cutting efficiency and increases kickback risk. Sharpen the chain as needed or replace it if damaged or excessively worn. Refer to the full manual for specific chain sharpening instructions.
- **Storage:** Store the chainsaw in a dry, secure location, out of reach of children. Always use the provided bar and chain storage sheath to protect the chain and guide bar. Remove batteries before storage.

7. TROUBLESHOOTING

If you encounter issues with your Sun Joe chainsaw, refer to the following common troubleshooting tips:

- **Chainsaw Not Starting:**
 - Ensure batteries are fully charged and properly inserted.
 - Check if the safety switch is disengaged.
 - Verify the chain brake is disengaged.
- **Poor Cutting Performance:**
 - Check chain tension; adjust if too loose or too tight.
 - Ensure the chain is sharp. Sharpen or replace if dull.
 - Verify the oil reservoir is filled for proper lubrication.
- **Chain Derailment:**
 - This often indicates incorrect chain tension. Adjust the tensioning knob.
 - Inspect the guide bar and chain for damage or wear.
- **Overheating:**
 - Allow the tool to cool down. Avoid continuous heavy-duty cutting without breaks.
 - Ensure ventilation openings are clear of debris.

For more detailed troubleshooting or persistent issues, please contact Sun Joe customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Sun Joe
Model Number	24V-X2-CS16

Power Source	Battery Powered (2 x 24V Lithium Ion)
Voltage	48 Volts (2 x 24V)
Motor Horsepower	1.2 HP (1200 W)
Item Weight	13 Pounds
Product Dimensions	30"L x 9"W x 8"H
Chain Length	16 Inches
Max Cutting Thickness	15.5 Inches
Special Features	Auto-Oiler, Built-in Safety Switch, Kick Back Brake
Batteries Included	Yes (2 x 2.0 Ah Lithium Ion)
Charger Included	Yes (Quick Charger)

9. WARRANTY AND SUPPORT

The Sun Joe 24V-X2-CS16 48-Volt IONMAX Cordless Chain Saw is backed by a complete **2-year warranty**. For warranty claims, technical support, or to order replacement parts, please contact Sun Joe customer service. For the most up-to-date contact information and support resources, please visit the official Sun Joe website or refer to the contact details provided in your product packaging.