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› Sun Joe 24V-X2-21LM 48-Volt 21-Inch Brushless Cordless Lawn Mower User Manual

Sun Joe 24V-X2-21LM

Sun Joe 24V-X2-21LM 48-Volt 21-Inch Brushless Cordless Lawn Mower

Model: 24V-X2-21LM

INTRODUCTION

The Sun Joe 24V-X2-21LM 48-Volt 21-Inch Brushless Cordless Lawn Mower is designed for efficient and eco-friendly lawn care. Powered by the exclusive IONMAX lithium-ion battery system, it offers no-fade power and performance with zero carbon emissions. This manual provides essential information for safe operation, assembly, maintenance, and troubleshooting.



The Sun Joe 24V-X2-21LM 48-Volt 21-Inch Cordless Lawn Mower, complete with its battery and charger kit.

SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Read and understand all instructions before use.

- Wear appropriate personal protective equipment, including eye protection and hearing protection.
- Clear the mowing area of any debris, rocks, or foreign objects that could be thrown by the blade.
- Keep bystanders, children, and pets away from the mowing area.

- Never operate the mower in wet grass or rain.
- Disconnect the battery pack before performing any maintenance, cleaning, or when clearing a clogged chute.
- Ensure all guards and safety devices are in place and functioning correctly before each use.

WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- Sun Joe 24V-X2-21LM Lawn Mower Unit
- Two (2) 24-Volt 4.0 Ah Lithium-Ion Batteries
- Dual-Port Charger
- 13.2 Gallon Grass Collection Bag
- Safety Key
- User Manual

SETUP

Assembly

Follow the instructions in your user manual for handle assembly and attaching the grass collection bag. Ensure all connections are secure before proceeding.

Battery Installation

The mower is powered by two 24-Volt 4.0 Ah lithium-ion batteries. Open the battery compartment cover, insert both batteries firmly until they click into place, and then insert the safety key. Close the cover securely.



OPERATING INSTRUCTIONS

Starting the Mower

To start the mower, ensure the safety key is inserted. Press and hold the safety button, then pull the bail lever towards the handle. Release the safety button once the motor starts.

Mowing

The mower features a 20-inch cutting width for efficient coverage. Adjust the cutting height using the 7-position manual height-adjustment lever, ranging from 1.2 inches to 3.5 inches, to suit your lawn's needs.



Grass Collection

The mower includes a 13.2-gallon grass collection bag to prevent clippings from littering your lawn. A built-in grass indicator window lets you know when it's time to empty the bag.



Product Demonstration Video

Official demonstration video showcasing the features and operation of the Sun Joe 24V-X2-21LM Lawn Mower.

MAINTENANCE

Cleaning

After each use, disconnect the battery and clean the mower deck and blades to remove grass clippings and debris. Use a damp cloth; do not use water jets or harsh chemicals.

Blade Care

Periodically inspect the durable steel blade for sharpness and damage. A sharp blade ensures a clean cut and reduces strain on the motor. Refer to your manual for blade sharpening or replacement instructions.

Battery Care

The dual-port charger quickly powers up both batteries in under 2 hours. Always store batteries in a cool, dry place and charge them fully before extended storage.



TROUBLESHOOTING

If you encounter issues with your Sun Joe lawn mower, refer to the following common solutions:

- **Mower not starting:** Ensure batteries are fully charged and properly inserted, and the safety key is fully engaged. Check that the bail lever is pulled and the safety button is pressed.
- **Reduced cutting performance:** The blade may be dull or damaged. Inspect and sharpen or replace the blade as needed. Adjust cutting height for optimal performance based on grass length.
- **Excessive vibration:** A bent or unbalanced blade can cause vibration. Disconnect power and inspect the blade for damage.
- **Mower shuts off during operation:** This can occur if the grass is too thick or wet, causing the motor to overload. Raise the cutting height or mow in smaller passes. Batteries may also be low on charge.

For more detailed troubleshooting, consult the full user manual PDF.

SPECIFICATIONS

Feature	Detail
Brand	Sun Joe
Model Number	24V-X2-21LM
Power Source	Battery Powered (48-Volt System)
Motor	1100 W Brushless Input, 900 W Brushless Output
Cutting Width	21 Inches
Height Adjustment	7-Position (1.2 in. to 3.5 in.)
Grass Bag Capacity	13.2 Gallons
Item Weight	54 Pounds

Batteries	2 x 4.0 Ah Lithium-Ion (included)
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WARRANTY & SUPPORT

For warranty information, product registration, or further assistance, please visit the official Sun Joe website or refer to the full user manual.

You can download the complete User Manual (PDF) [here](#).

Visit the [Sun Joe Store on Amazon](#) for more products and support.

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