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> Sun Joe 24V-X2-16LM 48-Volt IONMAX Cordless Brushless Lawn Mower Kit User Manual

Sun Joe 24V-X2-16LM

Sun Joe 24V-X2-16LM 48-Volt IONMAX Cordless Brushless Lawn Mower Kit User Manual

Model: 24V-X2-16LM

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INTRODUCTION

This manual provides essential information for the safe and effective use of your Sun Joe 24V-X2-16LM 48-Volt IONMAX Cordless Brushless Lawn Mower Kit. Please read these instructions thoroughly before assembly, operation, or maintenance. Keep this manual for future reference.

SAFETY INFORMATION

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

General Safety Rules

- Read and understand all instructions before operating the appliance.
- Keep children and bystanders away from the operating area.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Inspect the work area for objects that could be thrown by the blade. Remove all debris.
- Do not operate the mower in wet grass or rain.
- Ensure the battery is fully charged before use and removed when not in use or during maintenance.
- Never attempt to bypass safety features.

PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Sun Joe 24V-X2-16LM Lawn Mower Unit
- 2 x 4.0-Ah IONMAX Lithium-Ion Batteries
- Dual-Port Charger
- 12-Gallon Grass Collection Bag
- Upper and Lower Handle Frames
- Assembly Hardware (latches, washers, nuts)
- Instruction Manual

LAWN RANGER!

SUNJOE

**16" 48V Cordless
LAWN MOWER**
4.0Ah Battery + Charger Included
Detachable 12 gal
Grass Bag



**24V IONMAX™
BATTERY**
No gas, tune-ups, pull cords,
or tangled extension cords

**6 Position
Height Control**
Tailors grass cutting height
from 1.4" to 3" inches

**Durable
Steel Blade**
16" durable steel blade cuts
a crisp path with every pass

**Detachable
Grass Bag**
12 gal grass bag for easy
disposal of grass clippings

**ONE BATTERY
150+
TOOLS**



**IONMAX™
CORDLESS SYSTEM**

Image: Overview of the Sun Joe 24V-X2-16LM Lawn Mower Kit, showing the mower, batteries, charger, and grass collection bag.

SETUP

1. Handle Assembly

1. Lift the lower handle to the desired height.

2. Turn the latch clockwise and flip it up to lock the lower handle frame in position.
3. Connect the upper frame and lower frame handles.
4. Insert latches into aligned holes. Attach with provided washers and nuts. Flip latches to secure.

2. Grass Collection Bag Attachment

1. To use with the grass collection bag, first remove the mulching plug (if installed).
2. With the ejector flap lifted, hook the grass collection bag into place.

LAWN RANGER!



SUNJOE

6-Position Height Adjustment

Customize cutting height from 1.4" to 3"

12 Gal Grass Catcher

Detaches for easy disposal of grass clippings



Image: Close-up view of the mower's height adjustment lever and the grass catcher attachment point.

3. Battery Charging and Installation

- Insert the 4.0-Ah lithium-ion batteries into the dual-port charger.
- Allow approximately 1 hour and 50 minutes for a full charge of both batteries.
- Once charged, insert the batteries into the designated battery compartments on the mower. Ensure they click securely into place.

LAWN RANGER!

LONG-LASTING LITHIUM-ION BATTERY


SUNJOE



Image: The Sun Joe lawn mower with its two 48V 4.0 Ah batteries inserted into the battery compartment.

Assembly Video

Video: Quick assembly guide for the Sun Joe 24V-X2-16LM Cordless Walk-Behind Brushless Mower, demonstrating handle setup and grass bag attachment.

OPERATION

1. Starting the Mower

- Ensure batteries are fully charged and correctly installed.
- Press and hold the safety button, then pull the bail switch towards the handle. The mower will start.
- Release the safety button once the mower is running.

2. Adjusting Cutting Height

- The mower features a 6-position manual height-adjustment lever.
- Adjust the lever to select a cutting height between 1.4 inches and 3 inches.

- For best results, avoid cutting more than one-third of the grass blade length at a time.

3. Mowing Techniques

- Mow in overlapping rows to ensure even coverage.
- For thick or tall grass, consider making two passes, raising the cutting height for the first pass.
- Always push the mower forward; do not pull it towards you.



Image: The Sun Joe lawn mower cutting grass in a residential lawn, demonstrating its 16-inch cutting width.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your lawn mower.

1. Cleaning

- Always remove batteries before cleaning.
- Clean the mower deck and blade area after each use to prevent grass buildup. Use a brush or cloth; do not use water directly on electrical components.
- Wipe down the exterior with a damp cloth.

2. Blade Care

- Inspect the blade regularly for sharpness and damage. A dull blade can tear grass, leading to an unhealthy lawn.
- If the blade is damaged or excessively dull, it should be sharpened or replaced by a qualified service technician.

3. Battery Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- For long-term storage, charge batteries to approximately 50% capacity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Mower does not start	Batteries not charged or improperly installed; Safety key not inserted; Bail switch not engaged.	Charge and properly install batteries; Insert safety key; Engage bail switch.
Mower stops during operation	Batteries depleted; Overload protection activated (e.g., very thick grass).	Recharge batteries; Reduce load by raising cutting height or taking smaller passes.
Uneven cut	Dull or damaged blade; Uneven terrain; Incorrect cutting height.	Sharpen or replace blade; Mow on level ground; Adjust cutting height.
Excessive vibration	Bent or unbalanced blade; Loose components.	Inspect and replace blade if bent; Tighten all fasteners.

SPECIFICATIONS

Feature	Detail
Brand	Sun Joe
Model Number	24V-X2-16LM
Power Source	Battery Powered (2x 4.0 Ah Lithium-Ion)
Voltage	48-Volt (2x 24V)
Motor Type	Brushless (800-watt)
Cutting Width	16 inches
Height Adjustment	6-position manual (1.4 inches to 3 inches)
Grass Collection Bag Capacity	12 Gallons
Item Weight	18.9 Pounds (without batteries)
Product Dimensions	32.7"D x 18.9"W x 13.8"H

Feature	Detail
Material	Alloy Steel
Color	Green



Image: The Sun Joe lawn mower with key dimensions (length, width, height, weight) highlighted.

WARRANTY & SUPPORT

Warranty Information

This product includes a 2-year manufacturer's warranty. Please refer to the warranty card included in your package for full terms and conditions.

Customer Support

For technical assistance, replacement parts, or warranty claims, please contact Sun Joe customer service. Contact details can typically be found on the manufacturer's website or on the product packaging.

