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## Sun Joe 24V-X2-BVM190-CT

# Sun Joe 48-Volt IONMAX Cordless Blower Vacuum Mulcher

Model: 24V-X2-BVM190-CT

Instruction Manual

## IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury. Read all instructions before using this product.

- **Read the Manual:** Familiarize yourself with the controls and proper use of the appliance.
- **Wear Eye and Ear Protection:** Always wear safety glasses and hearing protection when operating the unit.
- **Dress Properly:** Do not wear loose clothing or jewelry that could get caught in moving parts. Wear sturdy footwear.
- **Keep Area Clear:** Ensure the work area is free of bystanders, children, and pets.
- **Inspect Unit:** Before each use, check for damaged parts, loose fasteners, or any condition that may affect safe operation.
- **Battery Safety:** Use only specified battery packs and chargers. Do not charge batteries in damp or wet locations. Do not dispose of batteries in fire.
- **Avoid Accidental Starting:** Ensure the switch is in the OFF position before inserting the battery pack.
- **Do Not Overreach:** Maintain proper footing and balance at all times.
- **Never Point Nozzle at People or Animals:** The powerful air stream can cause injury.
- **Do Not Operate Without Guards in Place:** Ensure all covers and safety devices are correctly installed before use.

## PRODUCT OVERVIEW

The Sun Joe 24V-X2-BVM190-CT is a versatile 3-in-1 cordless tool designed for yard cleanup. It functions as a blower, a vacuum, and a mulcher, powered by two 24-Volt IONMAX lithium-ion batteries (sold separately) for a total of 48 Volts. This unit is designed for efficient clearing of leaves, grass trimmings, dirt, and debris.

- **3-in-1 Functionality:** Easily converts between blower, vacuum, and mulcher modes.
- **Cordless Operation:** Powered by two 24-Volt IONMAX batteries for freedom of movement.
- **High Performance:** Delivers up to 190 MPH maximum wind speed and 340 CFM vacuum air flow.

- **Variable Speed Control:** Features 6 speed settings to match the task.
- **Mulching Capability:** High impact-resistant impeller shreds leaves with an 8:1 reduction ratio.
- **Tool Only:** Batteries and charger are sold separately.

## WHAT'S IN THE BOX

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Carefully remove all items from the packaging. Ensure all components are present before assembly.

- Sun Joe 48-Volt IONMAX Blower/Vacuum/Mulcher Unit
- Blower Tube
- Vacuum Tube (Upper and Lower sections)
- 9.2 Gallon Vacuum Bag
- Instruction Manual

**Note:** Batteries and charger are not included with this "Tool Only" model and must be purchased separately.

## ASSEMBLY AND SETUP

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### 1. Attaching the Blower Tube

1. Align the blower tube with the outlet on the main unit.
2. Push the tube firmly until it clicks into place. Ensure it is securely locked.



Image: The Sun Joe 48-Volt Blower assembled in its blower configuration, showing the main unit and the attached blower tube.

### 2. Assembling for Vacuum/Mulcher Mode

1. First, remove the blower tube if attached.
2. Attach the upper vacuum tube section to the main unit's intake opening, ensuring it locks securely.
3. Connect the lower vacuum tube section to the upper section.
4. Attach the vacuum bag to the discharge port on the side of the main unit. Ensure the bag's opening is fully seated and secured by its clip or zipper mechanism.



Image: The Sun Joe 48-Volt Blower Vacuum Mulcher assembled in its vacuum configuration, showing the vacuum tubes and the attached collection bag.

### 3. Inserting and Removing Batteries

- **To Insert:** Slide two fully charged 24V IONMAX batteries into the battery compartments on the unit until they click into place. Ensure they are firmly seated.
- **To Remove:** Press the battery release button(s) and slide the battery pack(s) out of the unit.

## OPERATION

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### 1. Starting and Stopping the Unit

- **To Start:** Ensure batteries are inserted. Press and hold the safety lock button, then squeeze the trigger switch.
- **To Stop:** Release the trigger switch.

## 2. Adjusting Speed Settings

The unit features 6 variable speed settings. Use the speed dial or switch (location varies by model revision) to select the desired air speed for your task. Lower speeds are suitable for delicate areas, while higher speeds provide maximum clearing power.

## 3. Using as a Blower

- Ensure the blower tube is securely attached and the vacuum bag is removed.
- Direct the nozzle towards the debris you wish to clear.
- Use a sweeping motion to gather leaves and debris into piles.

## 4. Using as a Vacuum/Mulcher

- Ensure the vacuum tubes and collection bag are correctly installed.
- Hold the unit with the vacuum nozzle close to the ground, hovering over the leaves.
- Move slowly over the debris. The unit will draw in leaves, which will then be mulched by the impeller before entering the collection bag.
- Empty the collection bag regularly to maintain optimal performance.



Image: A close-up view of the high impact-resistant impeller blades inside the Sun Joe unit, responsible for mulching collected debris.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Sun Joe unit. Always remove batteries before performing any maintenance.

- **Cleaning the Unit:** Wipe the exterior with a damp cloth. Do not use strong detergents or solvents.
- **Clearing Blockages:** If the unit loses suction or blowing power, check the tubes and impeller area for blockages. Remove any accumulated debris carefully.
- **Impeller Inspection:** Periodically inspect the impeller for damage or excessive wear.
- **Vacuum Bag Care:** Empty the vacuum bag after each use. Clean the bag periodically to prevent dust buildup, which can reduce air flow.
- **Battery Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Charge batteries fully before storing for extended periods.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not start	Batteries not inserted correctly or not charged. Safety lock not engaged.	Ensure batteries are fully charged and securely inserted. Press safety lock button before squeezing trigger.
Low blowing/vacuuming power	Blockage in tubes or impeller. Vacuum bag full. Low battery charge.	Remove batteries, then clear any blockages. Empty vacuum bag. Recharge batteries.
Unit stops intermittently	Loose battery connection. Overheating.	Ensure batteries are firmly seated. Allow unit to cool down if it has been used continuously for an extended period.
Poor mulching performance	Wet leaves or large debris. Impeller damage.	Avoid vacuuming wet material. Ensure only appropriate debris is being mulched. Inspect impeller for damage.

## SPECIFICATIONS

- **Model:** 24V-X2-BVM190-CT
- **Brand:** Sun Joe
- **Voltage:** 48 Volts (2 x 24V IONMAX)
- **Power Source:** Battery Powered (Tool Only)
- **Air Speed (Max):** 190 MPH
- **Air Flow Capacity (Vacuum):** 340 CFM
- **Reduction Ratio (Mulcher):** 8:1
- **Speed Settings:** 6 Variable Speeds
- **Vacuum Bag Capacity:** 9.2 Gallons
- **Item Weight:** Approximately 1 Pounds (unit only, without batteries/attachments)
- **Product Dimensions:** 28.5 x 5.5 x 2.2 inches (approximate, varies with configuration)

## WARRANTY AND SUPPORT

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Your Sun Joe 24V-X2-BVM190-CT is backed by the Snow Joe + Sun Joe customer promise. New products are warranted for **two years** from the date of purchase.

For further assistance, product registration, or warranty claims, please contact Snow Joe + Sun Joe Customer Support:

**Phone:** 1-866-766-9563

**Website:** [www.snowjoe.com](http://www.snowjoe.com) (or refer to your product registration card for specific support links)