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› [Sun Joe](#) /

› [Sun Joe 24V-X2-BVM143 48-Volt IONMAX Cordless Leaf Blower Vacuum Mulcher Kit Instruction Manual](#)

Sun Joe 24V-X2-BVM143

Sun Joe 24V-X2-BVM143 48-Volt IONMAX Cordless Leaf Blower Vacuum Mulcher Kit

Instruction Manual

1. IMPORTANT SAFETY INFORMATION

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

- **Personal Safety:** Always wear eye protection, hearing protection, and heavy-duty long pants, long sleeves, boots, and gloves. Secure long hair above shoulder level.
- **Work Area:** Keep the work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Battery Use and Care:** Recharge only with the charger specified by the manufacturer. Use appliances only with specifically designated battery packs.
- **Maintenance:** Disconnect the battery pack from the appliance before making any adjustments, changing accessories, or storing appliances.
- **Children and Bystanders:** Keep children and bystanders away while operating a power tool.

2. PRODUCT DESCRIPTION

The Sun Joe 24V-X2-BVM143 is a 48-Volt IONMAX Cordless Leaf Blower, Vacuum, and Mulcher Kit designed for efficient yard cleanup. This versatile tool operates on two 24-Volt IONMAX lithium-ion batteries, providing a combined 48-Volts of power. It features a maximum wind speed of 163 MPH for blowing and up to 391 CFM of vacuum air flow. The mulching function offers a 10:1 reduction ratio, converting leaves and yard waste into nutrient-rich mulch. The kit includes two 4.0 Ah batteries and a dual-port charger.



BLOWER + VACUUM + MULCHER

Image: The Sun Joe 24V-X2-BVM143 unit, showcasing its 3-in-1 functionality as a blower, vacuum, and mulcher.

3. WHAT'S IN THE Box

The Sun Joe 24V-X2-BVM143 kit includes the following components:

- Sun Joe 24V-X2-BVM143 Blower/Vacuum/Mulcher Unit
- 2 x 4.0 Ah IONMAX Lithium-Ion Batteries
- Dual Port Charger
- 9.2 Gallon Vacuum Bag
- Shoulder Strap
- Instruction Manual



Image: Two 24V batteries and the dual-port charger included with the kit.

4. ASSEMBLY

Follow these steps to assemble your Sun Joe 24V-X2-BVM143 unit:

- 1. Attach Tubes:** Insert the lower tube into the upper tube of the blower/vacuum assembly.
- 2. Secure Tubes:** Secure the tube assembly using the provided screw. Ensure it is tightened firmly.
- 3. Install Collection Bag:** Insert the collection bag adapter into the air outlet of the unit.
- 4. Attach Bag Strap:** Attach the bag strap to the designated strap hook on the unit.
- 5. Attach Shoulder Strap:** Clip the shoulder strap to the strap hook located on the main handle.
- 6. Adjust Shoulder Strap:** Adjust the shoulder strap to your desired length for comfortable operation.

Video: A quick assembly guide for the Sun Joe 24V-X2-BVM143, demonstrating how to connect the tubes, attach the collection bag, and secure the straps.



9.2-GAL VACUUM BAG

Image: The 9.2-gallon vacuum bag properly attached to the Sun Joe unit.

5. OPERATION

The Sun Joe 24V-X2-BVM143 offers three modes of operation: Blower, Vacuum, and Mulcher.

5.1 Blower Mode

To use as a blower, ensure the vacuum bag is removed and the blower tube is securely attached. Insert fully charged batteries. Use the variable speed settings to adjust the airflow for different tasks, from clearing light debris to moving wet leaves.



Image: The speed setting dial, offering 5 different levels of power for various tasks.

5.2 Vacuum + Mulcher Mode

To switch to vacuum/mulcher mode, twist the knob to change the function. Ensure the collection bag is properly attached. The unit will vacuum leaves and debris, passing them through the impeller for mulching, reducing their volume by a 10:1 ratio. Empty the collection bag regularly to maintain optimal performance.



Image: A person operating the Sun Joe unit in vacuum mode, collecting leaves from a paved area.

5.3 Battery Installation and Removal

To install batteries, align the battery pack with the battery port on the tool and slide it in until it clicks into place. To remove, press the battery release button and slide the battery pack out.

6. BATTERY CHARGING

The kit includes two 4.0 Ah IONMAX lithium-ion batteries and a dual-port charger. Always use the specified charger for your batteries.

- **Charging Process:** Plug the charger into a standard electrical outlet. Insert the battery packs into the charging ports. The indicator lights on the charger will show the charging status.
- **Charging Time:** Allow sufficient time for batteries to fully charge before use. Refer to the charger's specific instructions for detailed charging times.
- **Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.

7. MAINTENANCE

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

- **Cleaning:** After each use, disconnect the batteries and clean the exterior of the unit with a damp cloth. Remove any debris from the air intake vents and impeller area.
- **Impeller Inspection:** Periodically inspect the impeller for damage or blockages. Clear any lodged debris carefully.
- **Storage:** Store the unit in a dry, secure location out of reach of children. Ensure batteries are removed before storage.
- **Bag Care:** Empty and clean the vacuum bag regularly. Check for tears or damage and replace if necessary.



Image: A close-up view of the impeller, which is crucial for both blowing and mulching functions.

8. TROUBLESHOOTING

If you encounter issues with your Sun Joe 24V-X2-BVM143, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not start	Batteries not installed correctly or not charged.	Ensure batteries are fully charged and properly seated.
Low blowing/vacuuming power	Blocked air intake/outlet or impeller.	Disconnect batteries and clear any obstructions from tubes, vents, or impeller.
Excessive vibration	Debris caught in impeller.	Disconnect batteries and carefully remove any debris from the impeller.
Vacuum bag not collecting debris	Bag not properly attached or full.	Ensure bag is securely attached and empty if full. Check for tears.

9. SPECIFICATIONS

- Model:** 24V-X2-BVM143
- Voltage:** 48 Volts (2 x 24V IONMAX Batteries)
- Max Wind Speed:** 163 MPH
- Max Vacuum Air Flow:** 391 CFM
- Reduction Ratio:** 10:1
- Vacuum Bag Capacity:** 9.2 Gallons
- Batteries:** 2 x 4.0 Ah Lithium-Ion (included)
- Charger:** Dual Port Charger (included)
- Item Weight:** 16.22 pounds
- Noise Level:** 69 Decibels

10. WARRANTY AND SUPPORT

Your Sun Joe 24V-X2-BVM143 Leaf Blower Vacuum Mulcher Kit 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 or warranty claims, please contact Snow Joe + Sun Joe Customer Support at **1-866-766-9563**.