



# **CORDLESS BLOWER**

20-V | RECHARGEABLE | 120-MPH

## **OPERATOR'S MANUAL**

A Division of Snow Joe®, LLC

**Model 20ViONLT-BLW-RM**

Form No. SJ-20ViONLT-BLW-RM-880E-M-V1

# **THANKS FOR YOUR PURCHASE OF A REMANUFACTURED PRODUCT.**

To make sure you get the most out of your product, be sure to register online at

**sunjoe.com**

to enjoy full product support.

PASTE UPC LABEL HERE



# CORDLESS BLOWER

20-V | RECHARGEABLE | 120-MPH

## OPERATOR'S MANUAL

A Division of Snow Joe®, LLC

Model 20ViONLT-BLW-RM

Form No. SJ-20ViONLT-BLW-RM-880E-M-V1

## IMPORTANT! Safety Instructions

### All Operators Must Read These Instructions Before Use

Read all the instructions contained in this manual. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to another person, make sure to provide these operating instructions. Basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

**⚠ DANGER!** This indicates a hazardous situation, which, if not followed, will result in serious injury or death.

**⚠ WARNING!** This indicates a hazardous situation, which, if not followed, could result in serious injury or death.

**⚠ CAUTION!** This indicates a hazardous situation, which, if not followed, could result in minor or moderate injury.

Improper use of the machine will invalidate the warranty, relieve the manufacturer from all liabilities. The user will consequently be liable for all and any damage or injury to himself/herself or others.

## General Safety FOR HOUSEHOLD USE ONLY

**⚠ CAUTION!** Wear appropriate hearing protection during use. After long periods of extended use, the noise generated from this appliance may cause hearing loss if your ears are not properly protected.

**⚠ WARNING!** When using electric yard tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

1. **Keep work area clean and well-lit** – Cluttered, dark areas invite accidents.
2. **Replacement parts** – When servicing this unit, use only identical replacement parts.
3. **Keep children, bystanders, and pets away** – All spectators, including pets, should be kept a safe distance away from the work area.

4. **Dress properly** – Do not wear loose clothing or jewelry as such articles can get caught in moving parts. Wear a protective covering to contain long hair. Wearing rubber gloves and substantial non-slip footwear is recommended when working outdoors.
5. **Extension cords** – To prevent electric shock, use only with an extension cord suitable for outdoor use.
6. **Avoid accidental starting** – Do not carry the blower with your finger on the switch. Make sure the switch is off before plugging in the unit.
7. **Moving parts** – Keep hands and feet away from moving parts. Keep guards in place and in proper working order.
8. **Do not force the tool** – It will perform better with less likelihood of personal or mechanical injury if it is used at the rate for which it is designed.
9. **Wear personal protective equipment** – When using this tool, wear safety glasses with side shields or goggles to provide necessary eye protection. Wear ear defenders to prevent hearing damage. Use a face or dust mask if the work environment is dusty.
10. **Remove the battery** – Remove the battery when the tool is not in use, before servicing it, when changing accessories, and when performing any other maintenance task.
11. **Store idle tool indoors** – When not in use, the blower should be stored indoors in a dry and high or locked-up place out of the reach of children.
12. **Maintain the blower with care** – Keep the blower tube and the fan area clear and clean for optimal performance and to reduce the risk of injury. Keep the handle dry, clean, and free from oil and grease. Follow the additional recommendations described in the maintenance section of this manual.
13. **Use the right tool** – Do not use the tool for any job except that for which it is intended.
14. **Avoid dangerous environments** – Do not use the blower in rain, damp, or wet locations.
15. **Stay alert** – Watch what you are doing. Use common sense. Do not operate the blower when you are tired or under the influence of drugs, alcohol, or other medication.
16. **Avoid unintentional starting** – Do not carry the cordless blower with your finger on the switch.

## Additional Safety Instructions

- Do not use the blower in the rain or in a damp area.
- Use extra care when cleaning on stairs.
- Keep firm footing and maintain good balance at all times. Do not overreach. Overreaching can result in loss of balance.
- Turn off all controls before unplugging the tool.
- Do not use the tool if the power switch does not turn it ON or OFF. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Carefully inspect your appliance prior to use and follow all label and marking instructions.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Do not put any object into the tool's openings. Do not use the tool with any opening blocked; keep openings free of dust, lint, hair, or any other object that may reduce air flow.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string, which can be thrown or become entangled in the machine.
- Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in injury to the user or damage to the product.
- This blower is intended for residential use only. Commercial use of this product is prohibited and will void the manufacturer's warranty.
- Never run the unit without the proper equipment attached. Always ensure the blower tube is properly installed.
- Always grasp the handle when operating the unit, only operate the machine in its intended orientation.

## Specific Safety Rules For Blower


- The blower has been designed to clear light debris and leaves from hard surfaces – not for clearing grassed areas.
- When operating the unit, never point the blower nozzle in the direction of people or pets or in the direction of windows. Use extra caution when blowing debris near solid objects, such as trees, automobiles, and walls.
- Be sure to secure the unit when transporting it.
- Never douse or squirt the unit with water or any other liquid. Clean the unit after each use as described in the cleaning and storage section.


## Battery & Charger Safety Instructions

We pay a great deal of attention to the design of every battery pack to ensure that we supply you with batteries that are safe, durable and have a high energy density. The battery cells have a wide range of safety devices. Each individual cell is initially formatted and its electrical characteristic curves are recorded. This data is then used exclusively to be able to assemble the best possible battery packs.

Despite all the safety precautions, caution must always be exercised when handling batteries. The following points must be obeyed at all times to ensure safe use. Safe use can only be guaranteed if undamaged cells are used. Incorrect handling of the battery pack can cause cell damage.

**IMPORTANT!** Analyses confirm that incorrect use and poor care of high-performance batteries are the main factors responsible for personal and/or product damage.

 **WARNING!** Use only approved replacement batteries; other batteries may damage the blower and cause it to malfunction.

 **CAUTION!** To reduce the risk of injury, charge the EcoSharp® LITE iBAT20-LT lithium-ion battery pack only in its designated lithium-ion charger, the iCHRG20. Other types of chargers present risk of fire, personal injury and damage. Do not wire a battery pack to a power supply plug or car cigarette lighter. Such misuse will permanently disable or damage the battery pack.


- **Avoid dangerous environments** – Do not charge the battery pack in rain, snow or in damp or wet locations. Do not use the battery pack or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing the battery pack, which could lead to a fire.

- **Charge in a well-ventilated area** – Do not block the charger vents. Keep them clear to allow for proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode.

**NOTE:** The safe temperature range for the battery is -4°F (-20°C) to 167°F (75°C). Do not charge the battery outside in freezing weather; charge it at room temperature.

- **Maintain charger cord** – When unplugging the charger, pull the plug, not the cord, from the receptacle to reduce the risk of damage to the electrical plug and cord. Never carry the charger by its cord or yank it by the cord to disconnect it from the receptacle. Keep the cord away from heat, oil and sharp edges. Make sure the cord will not be stepped on, tripped over or subjected to damage or stress when the charger is in use. Do not use the charger with a damaged cord or plug. Replace a damaged charger immediately.

- **Do not use an extension cord unless it is absolutely necessary** – Using the wrong, damaged or improperly wired extension cord poses a risk of fire and electric shock. If an extension cord must be used, plug the charger into a properly wired 16 gauge or larger extension cord with the female plug matching the male plug on the charger. Make sure that the extension cord is in good electrical condition.
- **Charger iCHRG20 is rated for 120 volt AC only** – The charger must be plugged into an appropriate receptacle.
- **Use only recommended attachments** – Use of an attachment not recommended or sold by the battery charger or battery pack manufacturer may result in risk of fire, electric shock or personal injury.
- **Unplug charger when not in use** – Make sure to remove battery packs from unplugged chargers.

 **WARNING!** To reduce the risk of electric shock, always unplug the charger before performing any cleaning or maintenance. Do not allow water to flow into the charger. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.

- **Do not burn or incinerate battery packs** – Battery packs may explode, causing personal injury or damage. Toxic fumes and materials are created when battery packs are burned.
- **Do not crush, drop or damage battery packs** – Do not use the battery pack or charger if they have sustained a sharp blow, been dropped, run over or have been damaged in any way (i.e. pierced with a nail, hit with a hammer, stepped on, etc.).
- **Do not disassemble** – Incorrect reassembly may pose a serious risk of electric shock, fire or exposure to toxic battery chemicals. If the battery or charger are damaged, please contact an authorized Snow Joe® + Sun Joe® dealer or call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).
- **Battery chemicals cause serious burns** – Never let a damaged battery pack contact the skin, eyes or mouth. If a damaged battery pack leaks battery chemicals, use rubber or neoprene gloves to safely dispose of it. If skin is exposed to battery fluids, wash the affected area with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention. Remove and dispose of contaminated clothing.
- **Do not short circuit** – A battery pack will short circuit if a metal object makes a connection between the positive and negative contacts on the battery pack. Do not place a battery pack near anything that may cause a short circuit, such as paper clips, coins, keys, screws, nails and other metallic objects. A short-circuited battery pack poses a risk of fire and severe personal injury.

- **Store your battery pack and charger in a cool, dry place** – Do not store the battery pack or charger where temperatures may exceed 104°F (40°C), such as in direct sunlight or inside a vehicle or metal building during the summer.

## Information about the battery

1. The battery pack supplied with your cordless blower is only partially charged. The battery pack has to be charged completely before you use the tool for the first time.
2. For optimum battery performance, avoid low discharge cycles by charging the battery pack frequently.
3. Store the battery pack in a cool place, ideally at 77°F (25°C) and charged to at least 40%.
4. Lithium-ion batteries are subject to a natural aging process. The battery pack must be replaced at the latest when its capacity falls to just 80% of its capacity when new. Weakened cells in an aged battery pack are no longer capable of meeting the high power requirements needed for the proper operation of your blower, and therefore pose a safety risk.
5. Do not throw battery packs into an open fire as this poses a risk of explosion.
6. Do not ignite the battery pack or expose it to fire.
7. Do not exhaustively discharge batteries. Exhaustive discharge will damage the battery cells. The most common cause of exhaustive discharge is lengthy storage or non-use of partially discharged batteries. Stop working as soon as the performance of the battery falls noticeably or the electronic protection system triggers. Place the battery pack in storage only after it has been fully charged.
8. Protect batteries and the tool from overloads. Overloads will quickly result in overheating and cell damage inside the battery housing even if this overheating is not apparent externally.
9. Avoid damage and shocks. Immediately replace batteries that have been dropped from a height of more than one meter or those that have been exposed to violent shocks, even if the housing of the battery pack appears to be undamaged. The battery cells inside the battery may have suffered serious damage. In such instances, please read the waste disposal information for proper battery disposal.
10. If the battery pack suffers overloading and overheating, the integrated protective cutoff will switch off the equipment for safety reasons.  
**IMPORTANT!** Do not press the ON/OFF switch any more if the protective cut-off has been activated. This may damage the battery pack.
11. Use only original battery packs. The use of other batteries poses a fire risk and may result in injuries or an explosion.

## Information about the charger and the charging process

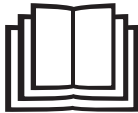








1. Please check the data marked on the rating plate of the battery charger. Be sure to connect the battery charger to a power supply with the voltage marked on the rating plate. Never connect it to a different mains voltage.
2. Protect the battery charger and its cord from damage. Keep the charger and its cord away from heat, oil and sharp edges. Have damaged cords repaired without delay by a qualified technician at an authorized Snow Joe® + Sun Joe® dealer or call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).
3. Electrical plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded appliances. Unmodified plugs and matching outlets will reduce the risk of electric shock.
4. Keep the battery charger, battery pack(s) and the cordless tool out of the reach of children.
5. Do not use the supplied battery charger to charge other cordless tools.
6. During periods of heavy use, the battery pack will become warm. Allow the battery pack to cool to room temperature before inserting it into the charger to recharge.
7. Do not overcharge batteries. Do not exceed the maximum charging times. These charging times only apply to discharged batteries. Frequent insertion of a charged or partially charged battery pack will result in overcharging and cell damage. Do not leave batteries in the charger for days on end.
8. Never use or charge batteries if you suspect that it has been more than 12 months since the last time they were charged. There is a high probability that the battery pack has already suffered dangerous damage (exhaustive discharge).
9. Charging batteries at a temperature below 50°F (10°C) will cause chemical damage to the cells and may cause a fire.
10. Do not use batteries that have been exposed to heat during the charging process, as the battery cells may have suffered dangerous damage.
11. Do not use batteries that have suffered curvature or deformation during the charging process or those that exhibit other atypical symptoms (gassing, hissing, cracking, etc.).
12. Never fully discharge the battery pack (maximum recommended depth of discharge is 80%). A complete discharge of the battery pack will lead to premature aging of the battery cells.

## Protection from environmental influences

1. Wear suitable work clothes. Wear safety goggles.
2. Protect your cordless tool and the battery charger from moisture and rain. Moisture and rain can cause dangerous cell damage.
3. Do not use the cordless tool or the battery charger near vapors and flammable liquids.
4. Use the battery charger and cordless tools only in dry conditions and at an ambient temperature of 50 – 104°F (10 – 40°C).
5. Do not keep the battery charger in places where the temperature is liable to reach over 104°F (40°C). In particular, do not leave the battery charger in a car that is parked in the sunshine.
6. Protect batteries from overheating. Overloads, overcharging and exposure to direct sunlight will result in overheating and cell damage. Never charge or work with batteries that have been overheated – replace them immediately, if possible.
7. Store the charger and your cordless tool only in dry locations with an ambient temperature of 50 – 104°F (10 – 40°C). Store your lithium-ion battery pack in a cool, dry place at a temperature of 50 – 68°F (10 – 20°C). Protect the battery pack, charger and cordless tool from humidity and direct sunlight. Only place fully charged batteries in storage (charged to at least 40%).
8. Prevent the lithium-ion battery pack from freezing. Battery packs that were stored below 32°F (0°C) for more than 60 minutes must be discarded.
9. When handling batteries, be wary of electrostatic charge. Electrostatic discharges can damage the electronic protection system and the battery cells. Avoid electrostatic charging and never touch the battery poles.

# Safety Symbols

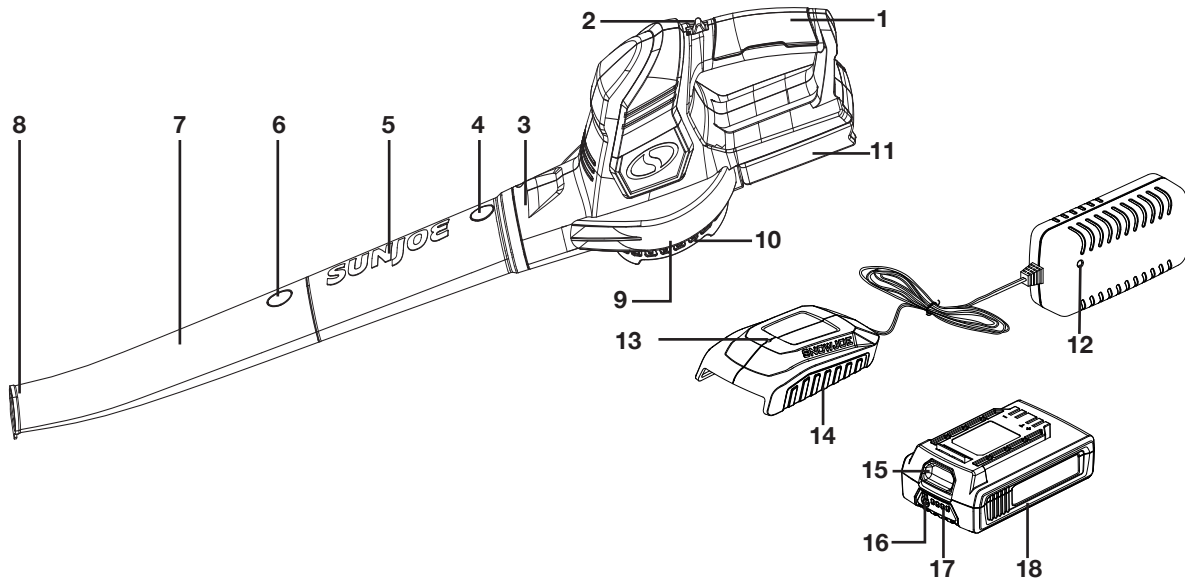
The following table depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

Symbols	Descriptions	Symbols	Descriptions
	<b>READ THE OPERATOR'S MANUAL(S)</b> – Read, understand and follow all instructions in the user manual(s) before attempting to assemble and operate.		Keep bystanders and children a safe distance away.
	<b>SAFETY ALERT</b> – Indicates a precaution, a warning or a danger.		<b>WARNING!</b> Do not expose the unit to rain or wet conditions.
	Beware of flying objects and debris.		Wear hearing protection. Wear eye protection. Wear breathing protection.
	<b>DANGER!</b> Rotating blades pose a serious risk of injury. Keep hands and feet away from openings while the machine is running.		The rotating part will continuously run for several seconds after you turn off the machine.
	Indoor use only. Only use battery charger indoors.		



# Know Your Cordless Blower

Read the owner's manual and safety instructions carefully before operating cordless blower. Compare the illustration below to the cordless blower in order to familiarize yourself with the location of the various controls and adjustments. Save this manual for future reference.



- |                               |   |
|-------------------------------|---|
| 1. Handle                     | 10. Air vents                               |
| 2. On/Off switch              | 11. Battery compartment                     |
| 3. Air outlet                 | 12. Charger plug indicator                  |
| 4. Upper tube release button  | 13. Charger base indicator                  |
| 5. Upper tube                 | 14. EcoSharp® lithium-ion charger (iCHRG20) |
| 6. Lower tube release button  | 15. Push lock button                        |
| 7. Lower tube                 | 16. Push button for battery indicator       |
| 8. Blower concentrator nozzle | 17. Battery charge level indicator          |
| 9. Motor housing              | 18. Lithium-ion LITE battery (iBAT20-LT)    |

## Technical Data

Battery Voltage*	20 V D.C.	Air speed (Max.)	120 MPH
Battery Capacity	2.5 Ah	Air flow (Max.)	71 CFM
Charging Time	90 min (for full charge)	Weight (blower alone)	2.9 lbs (1.3 kg)
Battery Run Time (max)	18 min	Weight (blower with battery installed)	3.7 lbs (1.7 kg)
No Load Speed	12000 ± 10% rpm	Weight blower with battery and charger	4.4 lbs (2.0 kg)
Motor	Brush motor		

\*Initial no-load voltage, when fully charged, peaks at 21 volts; nominal voltage under typical load is 20 volts.

# Unpacking

## Carton Contents

- Cordless blower body
- Upper tube
- Lower tube
- 20 V EcoSharp® LITE battery
- EcoSharp® battery charger
- Manual with registration card

1. Carefully remove the cordless blower and check to see that all of the above items are supplied.
2. Inspect the product carefully to make sure no breakage or damage occurred during shipping. If you find damaged or missing parts, DO NOT return the unit to the store. Please call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).

**NOTE:** Do not discard the shipping carton and packaging material until you are ready to use your new cordless blower. The packaging is made of recyclable materials. Properly dispose of these materials in accordance with local regulations.

**IMPORTANT!** The equipment and packaging material are not toys. Do not let children play with plastic bags, foils, or small parts. These items can be swallowed and pose a suffocation risk!

## Assembly

**⚠ WARNING!** To avoid serious personal injury, read and understand all safety instructions provided.

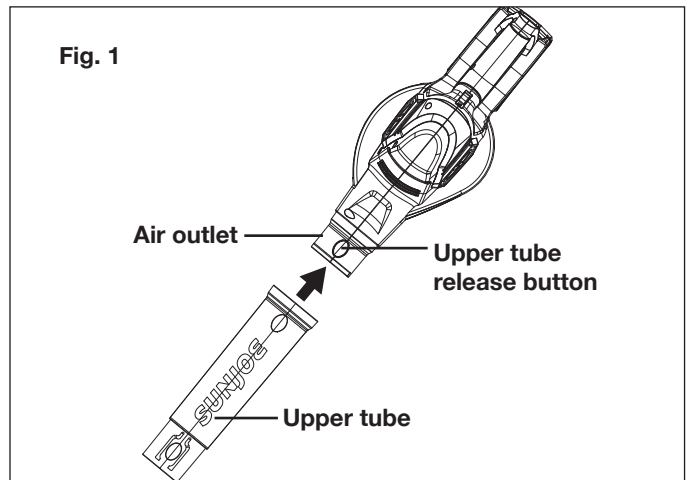
**⚠ WARNING!** Do not insert battery until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

**⚠ WARNING!** Before performing any maintenance, make sure battery is removed. Failure to heed this warning could result in serious personal injury.

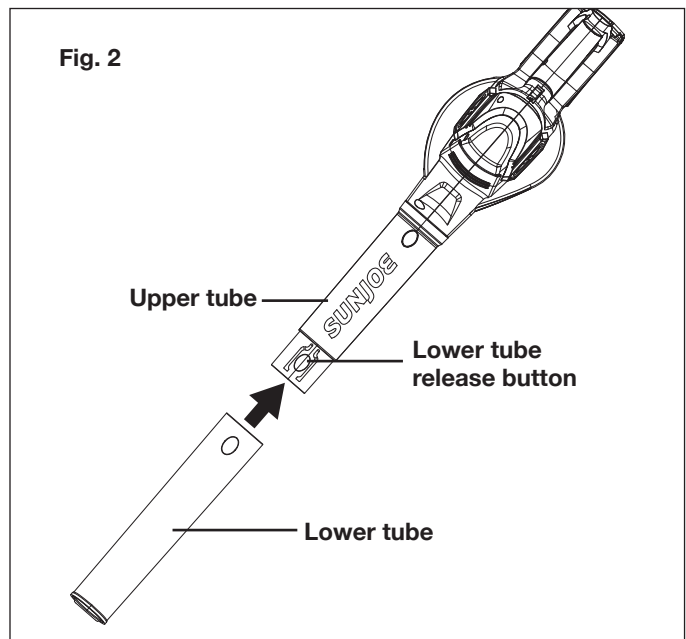
**⚠ WARNING!** To prevent serious personal injury, make sure the switch is in the OFF (0) position, the battery is removed and the impeller has come to a complete stop before attaching or removing tubes.

## Attaching the Blower Tube

1. Align and attach the upper tube onto the air outlet with a twist motion until the upper tube release button snaps in position (Fig. 1).



2. Align and attach the lower tube onto the upper tube with a twist motion until the lower tube release button snaps in position (Fig. 2).



3. To remove the tubes, press the release button and pull the tube until the release button is disengaged.








# Battery Pack Operation

The equipment is powered by a lithium-ion battery. The battery pack is completely sealed and maintenance free.

## Battery Charge Level Indicator

The battery pack is equipped with a push button for checking the charge level. Simply press the push button to read off the battery charge level from the LEDs of the battery indicator:

- All 4 level monitoring LEDs are lit: Battery charge level is maximum.
- 3 level monitoring LEDs are lit: Battery charge level is high.
- 2 level monitoring LEDs are lit: Battery charge level is decreasing. Stop work as soon as possible.
- 1 level monitoring LED is lit: Battery is flat. Stop work IMMEDIATELY and charge the battery. Otherwise the battery's service life will be greatly shortened.

Lights	Light Indicators
	Charge level button
	The battery is at 25% capacity and requires charging
	The battery is at 50% capacity and requires charging soon
	The battery is at 75% capacity
	The battery is at full capacity

**NOTE:** If the charge level button does not appear to be working, place the battery pack on the charger and charge as needed.

Immediately after using the battery pack, the charge level button may display a lower charge than it will if checked a few minutes later. The battery cells "recover" some of their charge after resting.

## Charger Operation

**⚠ WARNING!** Charge only EcoSharp® LITE iBAT20-LT lithium-ion battery packs in compatible EcoSharp® iCHRG20 lithium-ion battery chargers. Other types of batteries may cause personal injury and damage.

To reduce the risk of electric shock, do not allow water to flow into the charger.

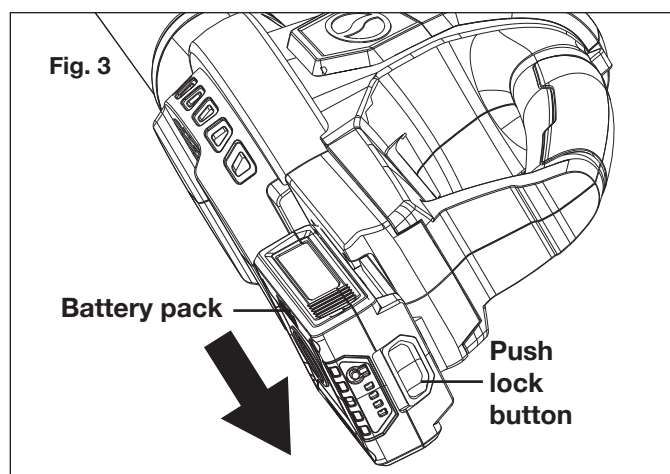
## When to Charge the EcoSharp® LITE iBAT20-LT Lithium-Ion Battery

**NOTE:** The EcoSharp® LITE iBAT20-LT lithium-ion battery packs do not develop a "memory" when charged after only a partial discharge. Therefore, it is not necessary to run down the battery pack before placing it into the charger.

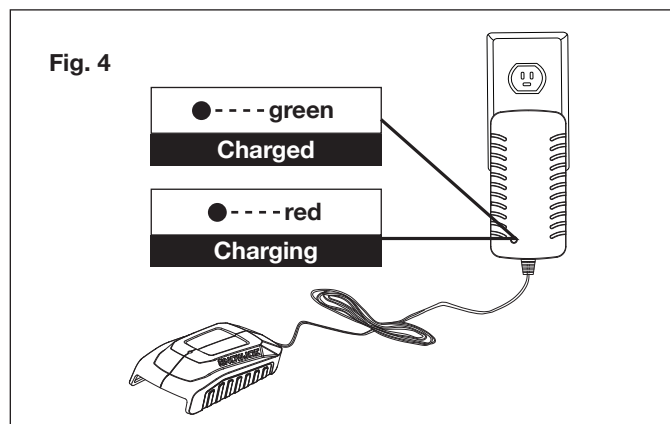
- Use the battery charge indicator lights to determine when to charge your EcoSharp® LITE iBAT20-LT lithium-ion battery pack.
- You can "top-off" your battery pack's charge before starting a big job or after a long day of use.

## Charging the Battery

1. Pull the push lock button on the battery to pull the battery pack out of the equipment (Fig. 3).

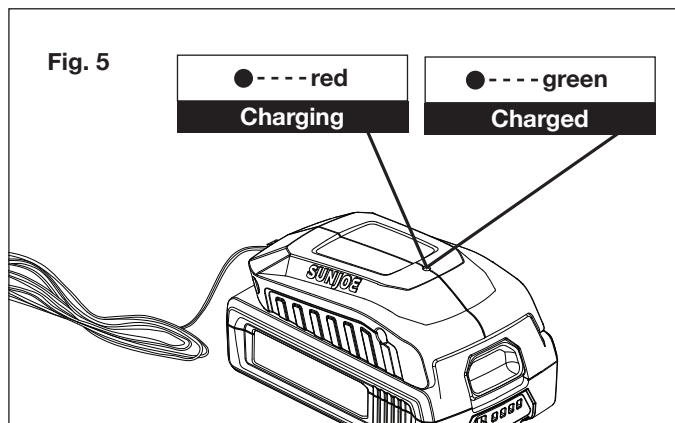


2. Check that the mains voltage is the same as that marked on the rating plate of the battery charger. Then, insert the charger's plug into the electrical wall outlet. When you plug in the charger, the light on the charging plug will illuminate red. When fully charged, the light will illuminate green (Fig. 4).



3. Place the battery pack into the charger by sliding the pack as shown to lock it into position. When you insert the battery into the charger, the light on the charging base will illuminate red to indicate that the battery is charging (Fig. 5).

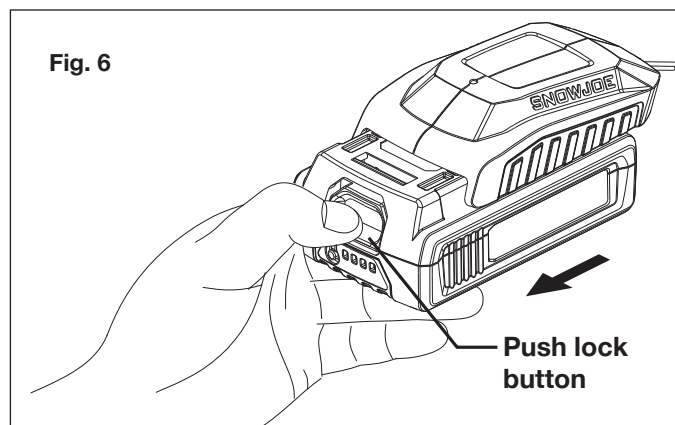
- When the charger base light turns green, the battery is fully charged (Fig. 5).



**NOTE:** If the charger plug light remains green while the charger base light alternately flashes red and green, this indicates a temperature abnormality (i.e. that the battery pack is either too hot or too cold).

Plug light	● -- Green	Base light	☼ -- Flashing red/green
Temperature abnormal			

- A fully discharged pack with an internal temperature in the normal range will fully charge in 90 mins (between 32°F/0°C and 113°F/45°C). Heavily cycled battery packs may take longer to charge completely.
- If the light indicators do not come on at all, check that the battery pack is fully seated into the bay. Remove the pack and reinsert. If the problem persists, contact an authorized Snow Joe® + Sun Joe® dealer or call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563) for assistance.
- When charging is complete, remove the battery from the charger by pulling the push lock button and sliding the battery backward to unlock it from the charger (Fig. 6).



- Timely recharging of the battery will help prolong the battery's life. You must recharge the battery pack when you notice a drop in the equipment's power.

**IMPORTANT!** Never allow the battery pack to become fully discharged as this will cause irreversible damage to the battery.

## Charging a Hot or Cold Battery Pack

A red and green flashing indicator light on the charger base indicates that the battery pack temperature is outside the charging range. Once the pack is within the acceptable range, normal charging will take place and the red light will be continuous. Hot or cold battery packs may take longer to charge.

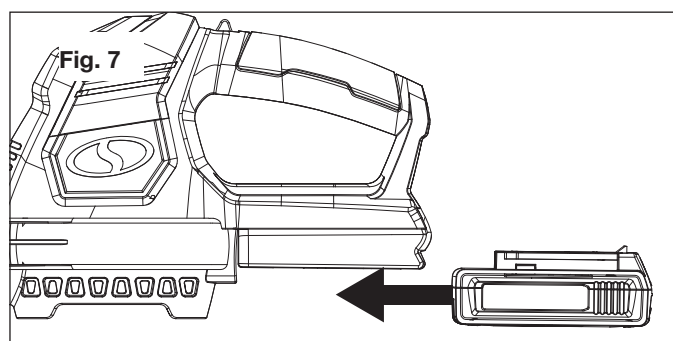
Lithium-Ion Charging Status		
Battery Pack Temperature	Charger Base Indicator Light	Charging Status
Too hot	Flashing	Not charging
Normal range	Red	Normal charging
Too cold	Flashing	Not charging

## Operation

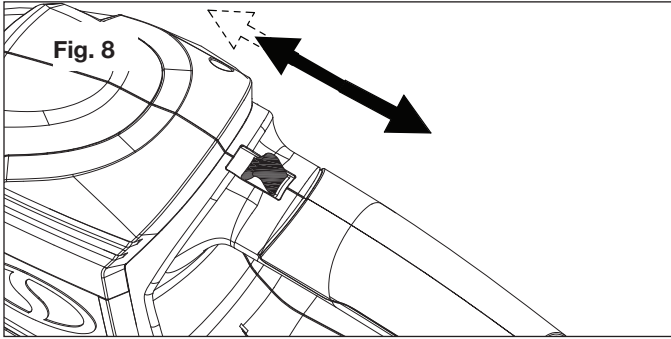
### Starting and Stopping

**⚠ CAUTION!** Starting, stopping, and restarting an DC motor repeatedly within a few seconds can generate a great deal of heat and damage the motor. To protect the life of your cordless blower, always wait at least five seconds after stopping before restarting the blower.

- Insert the battery in the battery compartment (Fig. 7).



- To start the cordless blower, slide the ON/OFF switch to the "ON" position (Fig. 8).



4. To turn the tool off, slide the On/Off switch to OFF.

## Operating Tips

**⚠ WARNING!** Use the cordless blower only in daylight or good artificial light.

- When using the cordless blower, plant your feet firmly on the ground and place your dominant hand on the unit handle to control the unit. Use your other hand to steady the unit as needed.
- Wear personal protective equipment during your work session. This includes boots, safety glasses/goggles, ear defenders, long pants and a long-sleeve shirt.
- Make sure the blower tube nozzle is not directed at anybody or any loose debris before starting the unit.
- Verify that the unit is in good working condition. Make sure the tubes and guards are in place and secure.
- Keep a firm grip on the unit handle while in use.
- To reduce the risk of hearing loss associated with increased sound levels, hearing protection is required.
- Operate power equipment only at reasonable hours—not early in the morning or late at night when people might be disturbed. Comply with times listed in local ordinances. Usual recommendations are 9:00 am to 5:00 pm, Monday through Saturday.
- To reduce noise levels, limit the number of pieces of power equipment used at any one time and operate power blowers at the lowest possible speed setting necessary to do the job.
- Use rakes and brooms to loosen debris before blowing.
- In dusty conditions, slightly dampen surfaces.
- Conserve water by using power blowers instead of hoses for many lawn and garden applications, including areas such as gutters, screens, patios, grills, porches and gardens.
- Blow debris into a safe, open area away from children, pets, open windows or freshly washed cars.
- Clean up after using leaf blowers and other lawn equipment. Dispose of debris appropriately.

**⚠ WARNING!** To avoid serious personal injury, wear ear defenders, goggles or safety glasses at all times when operating this unit. Wear a face mask or dust mask in dusty locations.

**⚠ WARNING!** To prevent serious personal injury or damage to the unit, make sure the blower tube is in place before operating the unit.

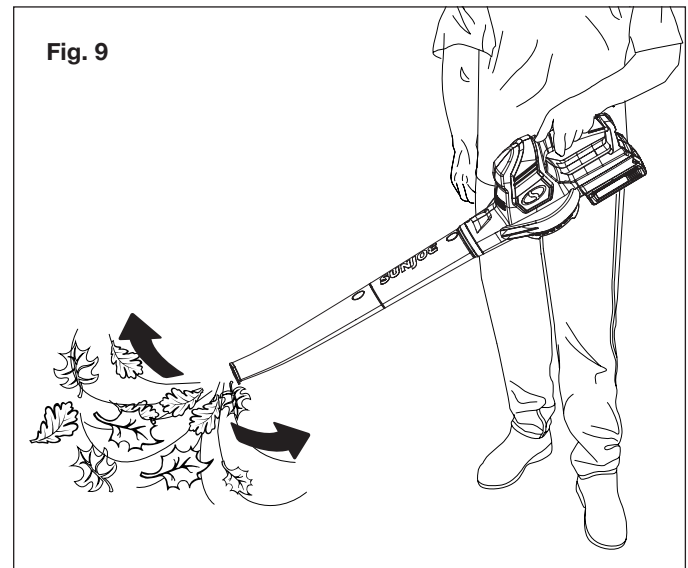
## Air Vents

Never cover air vents. Keep them free from obstructions and debris. They must always remain clear for proper motor cooling.

**⚠ WARNING!** To avoid serious personal injury, do not wear loose fitting clothing or articles such as scarves, strings, chains, ties, etc., that could get drawn into the air vents. To make sure long hair does not get drawn into the air vents, tie back long hair.

## Blowing Operation

- Hold the blower firmly with your dominant hand on the unit handle. Sweep from side to side with the nozzle several inches above the ground or floor (Fig. 9).



- Slowly advance the unit, keeping the accumulated pile of debris in front of you.

## Maintenance

**⚠️ WARNING!** Always wear protective gloves during maintenance operations. Do not carry out maintenance when the engine is running or hot.

**⚠️ WARNING!** Use only original manufacturer's replacement parts, accessories and attachments. Failure to do so can cause possible injury and poor performance.

To order genuine replacement parts or accessories for the Sun Joe® 20ViONLT-BLW-RM cordless blower, please visit [snowjoe.com](http://snowjoe.com) or contact the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).

**⚠️ WARNING!** Remove the battery before performing any maintenance task.

If the battery is connected with the unit, someone could accidentally turn on the unit while you are inspecting it, which could result in serious personal injury.

1. Store the tool, instruction manual and accessories in a secure, dry place. In this way, you will always have the information ready at hand.
2. Keep the tool's air vents unclogged and clean at all times.
3. Remove dust and dirt regularly. Cleaning is best done with a rag or brush.
4. Never use caustic agents to clean plastic parts.

**⚠️ WARNING!** Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

## Storage

1. Examine the cordless blower thoroughly for worn, loose, or damaged parts. Should you need to repair or replace a part, contact an authorized Snow Joe® + Sun Joe® dealer or call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563) for assistance.
2. Remove the battery from the cordless blower before storing.
3. Clean the blower tube thoroughly before storing. Store the blower in a dry, well-ventilated place that is inaccessible to children. Keep away from corrosive agents.

## Battery Caution + Disposal

Always dispose of your battery pack according to federal, state, and local regulations. Contact a recycling agency in your area for recycling locations.

**⚠️ CAUTION!** Even discharged battery packs contain some energy. Before disposing, use electrical tape to cover the terminals to prevent the battery pack from shorting, which could cause a fire or explosion.

**⚠️ WARNING!** To reduce the risk of injury or explosion, never burn or incinerate a battery pack even if it is damaged, dead, or completely discharged. When burned, toxic fumes and materials are emitted into the surrounding atmosphere.

1. Batteries vary according to device. Consult your manual for specific information.
2. Install only new batteries of the same type in your product (where applicable).
3. Failure to insert batteries in the correct polarity, as indicated in the battery compartment or manual, may shorten the life of the batteries or cause batteries to leak.
4. Do not mix old and new batteries.
5. Do not mix Alkaline, Standard (Carbon-Zinc), or Rechargeable (Nickel Cadmium, Nickel Metal Hydride, or Lithium-Ion) batteries.
6. Do not dispose of batteries in fire.
7. Batteries should be recycled or disposed of as per state and local guidelines.

## Service and Support

If your Sun Joe® 20ViONLT-BLW-RM cordless blower requires service or maintenance, please call 1-866-SNOWJOE (1-866-766-9563) for assistance.

## Model and Serial Numbers

When contacting the company, reordering parts, or arranging service from an authorized dealer, you will need to provide the model and serial numbers, which can be found on the decal located on the housing of the unit. Copy these numbers into the space provided below.

Record the following numbers from the housing or handle of your new product:

Model #:


2 | 0 | V | i | O | N | L | T | - | B | L | W | - | R | M |

Serial #:

| | | | | | | | | | | | | | | | | | | | | |

# iCHRG20

## Federal Communications Commission (FCC)

 **WARNING!** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Class B device:**

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

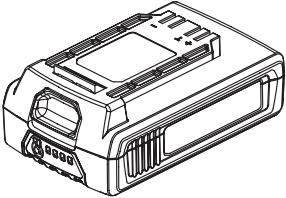
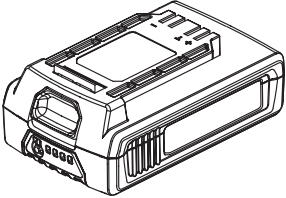
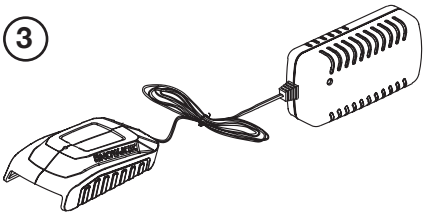
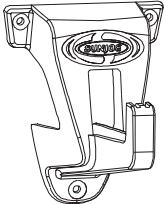
However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Optional Accessories

**⚠ WARNING!** ALWAYS use only authorized Snow Joe® + Sun Joe® replacement parts and accessories. NEVER use replacement parts or accessories that are not intended for use with this saw. Contact Snow Joe® + Sun Joe® if you are unsure whether it is safe to use a particular replacement part or accessory with your saw. The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

Accessories	Item	Model
<b>1</b> 	EcoSharp® LITE 20 V 2.0 Ah Lithium-iON Battery Charging Time: 70 min (for full charge) Battery Run Time (Max): 15 min	iBAT20-LTE
<b>2</b> 	EcoSharp® LITE 20 V 2.5 Ah Lithium-iON Battery Charging Time: 90 min (for full charge) Battery Run Time (Max): 18 min	iBAT20-LT
<b>3</b> 	EcoSharp® 20 V Lithium-iON battery charger	iCHRG20
<b>4</b> 	Universal wall bracket with mounting hardware	SJWB (Fits most Snow Joe® + Sun Joe® tools, including blower vac models SBJ601E+ SBJ603E + SBJ605E)

**NOTE:** Accessories are subject to change without any obligation on the part of Snow Joe® + Sun Joe® to provide notice of such changes. Accessories can be ordered online at [snowjoe.com](http://snowjoe.com) or via phone by contacting the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).





## SNOW JOE® + SUN JOE® REFURBISHED GOODS WARRANTY

### GENERAL CONDITIONS:

Snow Joe® + Sun Joe® operating under Snow Joe®, LLC warrants this refurbished product to the original purchaser for 90 days against defects in material or workmanship when used for normal residential purposes. If a replacement part or product is needed, it will be sent free of charge to the original purchaser except as noted below.

The duration of this warranty applies only if the product is put to personal use around the household. It is the owner's responsibility to correctly perform all maintenance and minor adjustments explained in the owner's manual.

### HOW TO OBTAIN YOUR REPLACEMENT PART OR PRODUCT:

To obtain a replacement part or product, please visit [snowjoe.com/help](http://snowjoe.com/help) or email us at [help@snowjoe.com](mailto:help@snowjoe.com) for instructions. Please be sure to register your unit beforehand to speed up this process. Certain products may require a serial number, typically found on the decal affixed to the housing or guard of your product. All products require a valid proof of purchase.

### EXCLUSIONS:

- Wearing parts like belts, augers, chains and tines are not covered under this warranty. Wearing parts can be purchased at [snowjoe.com](http://snowjoe.com) or by calling 1-866-SNOWJOE (1-866-766-9563).
- Batteries are covered in full for 90-days from the date of purchase.

Snow Joe® + Sun Joe® may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Snow Joe® + Sun Joe® to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective.

This warranty is intended to cover product defects only. Snow Joe®, LLC is not liable for indirect, incidental or consequential damages in connection with the use or misuse of the Snow Joe® + Sun Joe® products covered by this warranty. This warranty does not cover any cost or expense incurred by the purchaser in providing substitute equipment or service during reasonable periods of malfunction or non-use of this product while waiting for a replacement part or unit under this warranty. Some states do not allow exclusions of incidental or consequential damages so the above exclusions may not apply in all states. This warranty may give you specific legal rights in your state.

### HOW TO REACH US:

We're here to help Monday through Friday from 9AM to 7PM EST and Saturday and Sunday 9AM to 4PM. You can reach us at 1-866-SNOWJOE (1 866-766-9563), online at [snowjoe.com](http://snowjoe.com), via email at [help@snowjoe.com](mailto:help@snowjoe.com) or tweet us @snowjoe.

### EXPORTS:

Customers who have purchased Snow Joe® + Sun Joe® products exported from the United States and Canada should contact their Snow Joe® + Sun Joe® distributor (dealer) to obtain information applicable to your country, province or state. If for any reason, you are not satisfied with the distributor's service, or if you have difficulty obtaining warranty information, contact your Snow Joe® + Sun Joe® seller. If in the event your efforts are unsatisfactory, please reach out to us directly.



[sunjoe.com](http://sunjoe.com)