



CORDLESS MINI CULTIVATOR + WEEDER

24-VOLT | 2.0-AH

OPERATOR'S MANUAL

A Division of Snow Joe®, LLC

Model TJW24C

Form No. SJ-TJW24C-880E-M


IMPORTANT! Safety Instructions

All Operators Must Read These Instructions Before Use


Always follow these safety guidelines. Failure to do so may result in serious bodily injury or death.

General Safety WARNINGS!

You and any other operator of this cordless cultivator + weeder must read, understand, and follow these instructions in their entirety. Failure to follow these instructions may result in ELECTRIC SHOCK, FIRE, and/or serious PERSONAL INJURY.

Notice the personal safety alert symbol  used in this manual to draw your attention to a WARNING given along with the particular operating instruction. This means that the operation requires special ATTENTION, CAUTION, and AWARENESS.

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. Replace or repair damaged parts immediately.
3. **Keep children, bystanders, and pets away** – All spectators, including pets, should be kept a safe distance away from the work area.
4. **Know your product** – Know how to start and stop the machine. Be thoroughly familiar with the controls.
5. **Use the right tool** – Do not use this machine for any job except that for which it was intended.
6. **Dress properly** – Do not wear loose clothing or jewelry as such articles can become 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.
7. **Avoid accidental starting** – Do not carry the cordless cultivator + weeder with your finger on the switch.

 **CAUTION!** Moving parts will continue to run for several seconds after turning off the machine.

8. **Moving parts** – Keep hands and feet away from moving parts. Keep guards in place and in proper working order.

9. **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 was designed.

10. **Do not overreach** – Keep proper footing and balance at all times.

If the cordless cultivator + weeder strikes a foreign object, follow these steps:

- **Stop the cordless cultivator + weeder.**
- **Inspect for damage.**
- **Repair any damage before restarting and operating the tool.**

11. **Use safety glasses** – Also use safety footwear, snug-fitting clothing, protective gloves, hearing, and head protection.

12. **Remove the battery** – Remove the battery from the cordless cultivator + weeder when it is not in use, before servicing it, when changing accessories, and when performing any other maintenance task.

13. **Store idle tool indoors** – When not in use, the cordless cultivator + weeder should be stored indoors in a dry and high or locked-up place out of the reach of children.

14. **Maintain the cordless cultivator + weeder with care** – Keep the cutting edges sharp and clean for optimal performance and to reduce the risk of injury. Keep the handles dry, clean, and free from oil and grease. Follow the additional recommendations described in the maintenance section of this manual.

15. **Avoid dangerous environments** – Do not use the cultivator + weeder in rain or in damp or wet locations. Do not operate the cultivator + weeder in gaseous or explosive atmospheres or use the cultivator + weeder near flammable or combustible liquids. Motors in these tools normally spark, and the sparks might ignite fumes.

16. **Stay alert** – Watch what you are doing. Use common sense. Do not operate the cordless cultivator + weeder when you are tired or under the influence of drugs, alcohol, or other medication.

17. **Check for damaged parts** – Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced. Contact the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563) for assistance.

Training

- Read, understand, and follow all instructions on the cordless cultivator + weeder and in the manual before operating this unit. Thoroughly familiarize yourself with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Children should never be allowed access to the equipment. Adults should never operate the equipment without carefully reading and understanding these instructions.
- Keep the area of operation clear of all persons, particularly children or pets.
- Exercise caution to avoid slipping or falling.
- Always plan your cultivating path to avoid discharge of material toward people, pets, and property (e.g. windows, cars, etc.). Thrown objects can cause serious personal injury and property damage. Do not allow anyone in front of a running machine.
- Keep people, pets, and property at least 25 feet from the cordless cultivator + weeder while it is in operation. Stop the cordless cultivator + weeder if people or pets enter the discharge area.
- Always observe the surface conditions in order to avoid slipping, falling, and unexpected objects.

Preparation

- Always inspect the area where the cultivator + weeder is to be used. Remove all objects (i.e. stones, sticks, wires, and other foreign materials) that could be thrown by the blade or cause the operator to trip.
- Thrown objects can cause serious injury to the eyes and exposed body. Always wear safety glasses or eye shields during operation and while making an adjustment or repair.
- Always operate the cordless cultivator + weeder wearing adequate garments. Do not wear jewelry or other loose clothing, which could become entangled in moving parts. Wear non-slip footwear to ensure proper footing.
- Observe any noise-prevention regulations and laws.
- Inspect the cordless cultivator + weeder for worn, missing, or damaged parts and safety labels. See maintenance section for detailed instructions.

Operation

- Do not operate the machine while under the influence of alcohol or drugs.
- Keep all safety devices in place and in proper working order. Do not operate with missing or damaged components.
- Ensure the controls (start/stop) function properly before cultivating.
- Hold onto the cordless cultivator + weeder with both hands during operation. Ensure the grips are dry.
- Contact with rotating parts can amputate hands and feet. Keep hands and feet away from all rotating parts.

- Only operate the cordless cultivator + weeder when there is good visibility or light and dry conditions. Always watch your footing and keep a firm hold on the grips. Walk; don't run!
- Do not operate the cordless cultivator + weeder on slippery surfaces. Check your footing during use.
- Exercise caution when changing direction and operating the tool on slopes. Always keep feet and legs a safe distance away from the machine. Look for hidden obstacles or hazards.
- Do not overload machine capacity by attempting to cultivate too deeply. It will cause excessive resistance.
- Stop the cordless cultivator + weeder and remove the battery before leaving the operating position (behind the handles) to adjust or inspect the unit. Wait until the blade have come to a complete stop.
- If the cordless cultivator + weeder should start to vibrate abnormally, stop the machine and inspect thoroughly for damage.
- Turn the machine OFF when moving to a new work area. Allow the blade to completely stop rotating before transporting the unit.
- Always use proper care and good judgment when you are confronted with a situation that is not covered in this manual. If you are unsure of what to do, contact your authorized Snow Joe® + Sun Joe® dealer or call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).
- Do not use in rain or wet conditions.
- Do not grasp the exposed cutting blade or cutting edges when picking up or holding the appliance.

Stopping Work

- Always turn the cordless cultivator + weeder OFF and remove the battery when stopping work or when changing work areas. Never leave the machine running when unattended.
- The blade will continue to rotate for a short period after turning OFF the cordless cultivator + weeder. Wait until the blade have completely stopped before lifting the machine or conducting inspection and maintenance.
- The motor housing remains hot for a short period after the machine is turned OFF. Allow the motor housing to cool completely before touching or storing near combustible material.

Maintenance + Storage

- Maintain or replace safety and instruction labels.
- Disengage all controls, stop the engine, and wait until the blade come to a complete stop before cleaning, repairing, or inspecting the cultivator + weeder.
- Regularly check the following:

- i) **Blade are clear and can rotate freely** – Accumulation of debris around the blade could impair performance or damage the motor. Inspect and clean the area around the blade before every use.
- ii) **Safety devices are operating properly** – Do not tamper with or adjust safety devices.
- iii) **Bolts and screws are properly tightened** – Visually inspect the machine for any damage and ensure that the cordless cultivator + weeder is in safe working condition.
- iv) **Use only identical replacement parts** – Always replace damaged parts with original equipment manufacturer's (OEM) parts only. Replacement parts that do not meet the original equipment specifications may lead to improper performance and compromise safety.

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 power tool and cause it to malfunction, which can lead to serious personal injury.

⚠️ WARNING! Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

Do not modify or attempt to repair the appliance or the battery pack except as indicated in the instructions for use and care.

Have your battery pack serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the battery pack is maintained.

⚠️ CAUTION! To reduce the risk of injury, charge the Ecosharp® LITE iBAT24-LTE lithium-iON battery pack only in its designated lithium-iON charger. 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 41°F (5°C) to 105°F (40.5°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.

- **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, 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.
- **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 paperclips, 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 105°F (40.5°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 power tool 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 59°F (15°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 cordless mini cultivator + weeder, 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 3 feet (1 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 41°F (5°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 41 – 105°F (5 – 40.5°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 40-105°F (4.5-40.5°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.

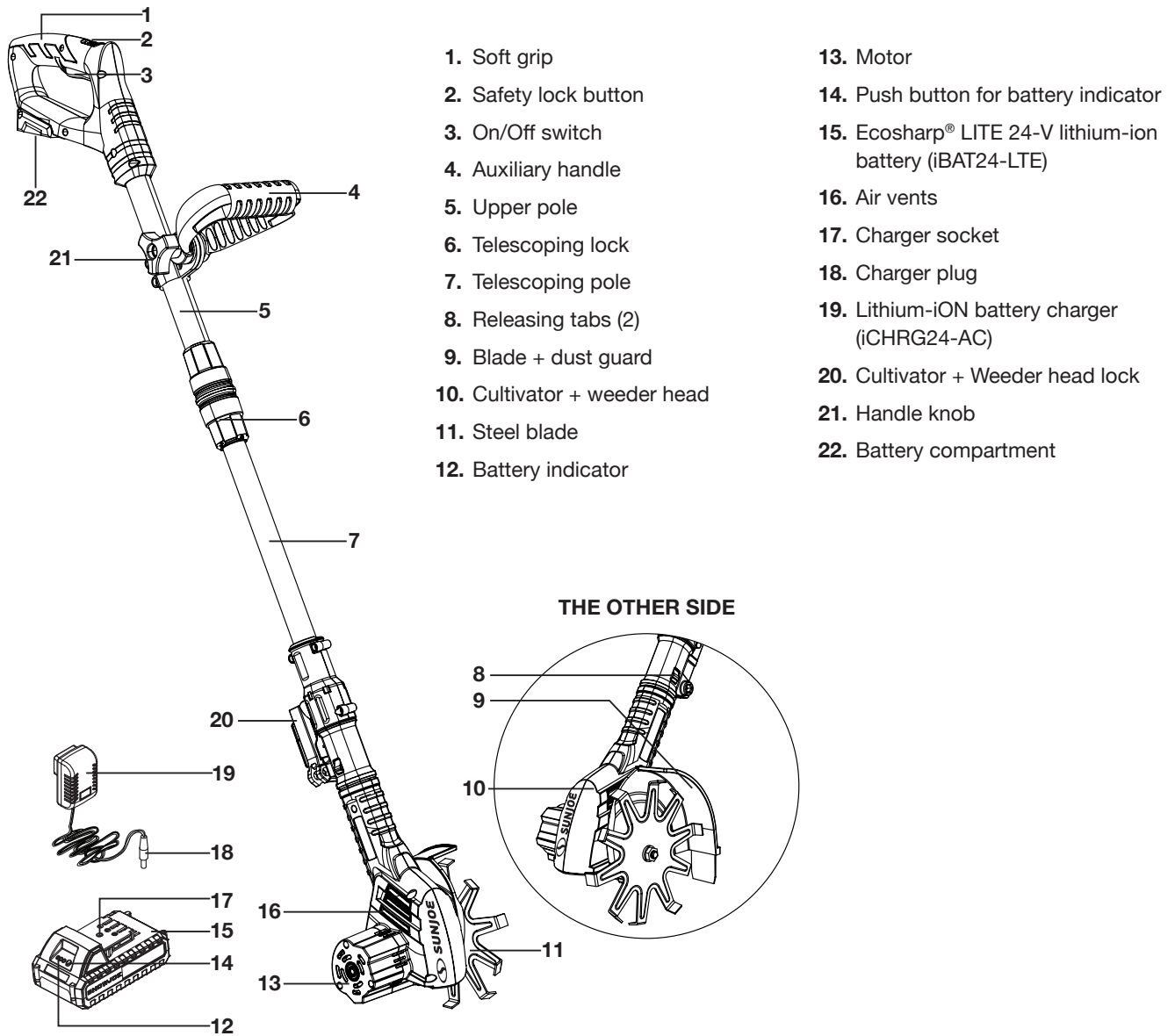
Safety Symbols

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
	READ THE OPERATOR'S MANUAL(S) – Read, understand, and follow all instructions in the user manual(s) before attempting to assemble and operate.		Wear eye protection, breathing protection, and ear protection (i.e. safety goggles, dust masks, and ear defenders).
	SAFETY ALERT – Indicates a precaution, a warning, or a danger.		WARNING! Do not expose the unit to rain or wet conditions.
	Beware of foreign objects that could be thrown from the appliance. Keep bystanders a safe distance away from the work area.		WARNING! Rotating parts may cause serious injury. Make sure the blade come to a complete stop before transporting the machine or before inspecting, cleaning, or conducting any other maintenance.
	Work across slopes; never work up and down such surfaces.		Inspect the work area prior to use and remove all objects that could be thrown by the appliance. If a hidden object is discovered while working, stop the engine and remove the object.
	Wear safety gloves during use to protect hands.		Wear safety footwear at all times to provide protection against objects that may accidentally fall on feet.
	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 Cultivator + Weeder

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



- 1. Soft grip
- 2. Safety lock button
- 3. On/Off switch
- 4. Auxiliary handle
- 5. Upper pole
- 6. Telescoping lock
- 7. Telescoping pole
- 8. Releasing tabs (2)
- 9. Blade + dust guard
- 10. Cultivator + weeder head
- 11. Steel blade
- 12. Battery indicator
- 13. Motor
- 14. Push button for battery indicator
- 15. Ecosharp® LITE 24-V lithium-ion battery (IBAT24-LTE)
- 16. Air vents
- 17. Charger socket
- 18. Charger plug
- 19. Lithium-iON battery charger (iCHRG24-AC)
- 20. Cultivator + Weeder head lock
- 21. Handle knob
- 22. Battery compartment

Technical Data

Battery Voltage*	24 V D.C.	Blade	6-inch steel tilling blade
Battery Capacity	2.0 Ah	No Load Speed	250 rpm
Charging Time	80 minutes (for full charge)	Telescoping Pole Length	28.3 inch – 37 inch (72 cm – 94 cm)
Battery Run Time	60 minutes (no load)	Weight (cultivator + weeder alone)	3.5 lbs (1.6 kg)
Cultivating Width (Max)	0.9 in. (23 mm)	Weight (with battery installed)	4.4 lbs (2.0 kg)

*Initial no-load voltage, when fully charged, peaks at 24 volts; nominal voltage under typical load is 21.6 volts.

Unpacking

Carton Contents

- Cultivator + weeder head
- Cultivator + weeder pole assembly
- Wrench
- Ecosharp® LITE 24 V Lithium-iON battery
- Lithium-iON battery charger
- Manual with registration card

1. Carefully remove the cordless cultivator + weeder 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 the cordless cultivator + weeder. The packaging is made of recyclable materials. Properly dispose of these materials in accordance with local regulations or save the packaging for long-term product storage.

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

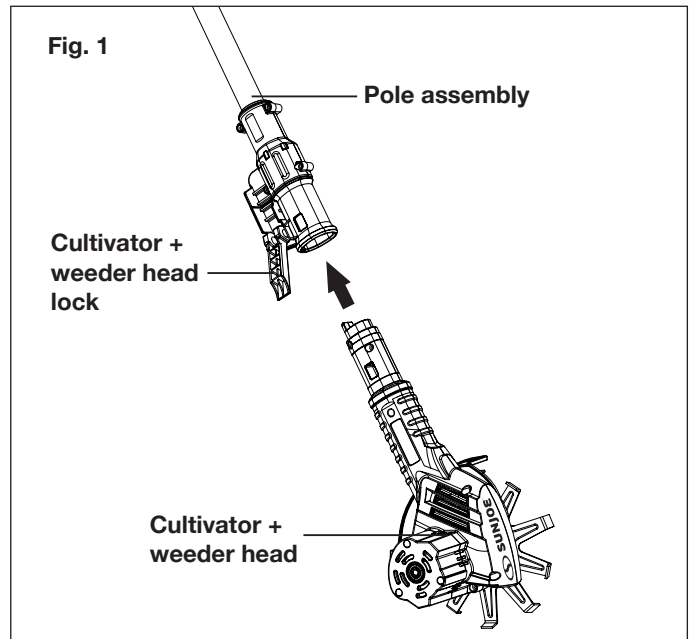
⚠️ WARNING! To prevent serious personal injury, make sure the battery is removed, and the blade has come to a complete stop before inspecting, cleaning, or servicing the unit.

⚠️ WARNING! The product must be fully assembled before operation. Do not use a product that is only partially assembled or assembled with damaged parts.

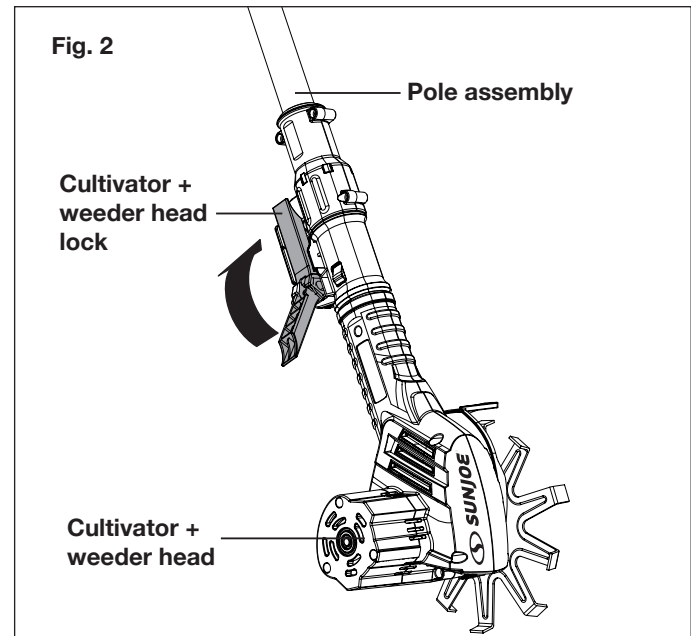
Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product.

Assembling + Fitting the Head

1. With the cultivator + weeder head lock unlocked, insert the cultivator + weeder head into the end of the pole assembly until it clicks in place (Fig. 1).

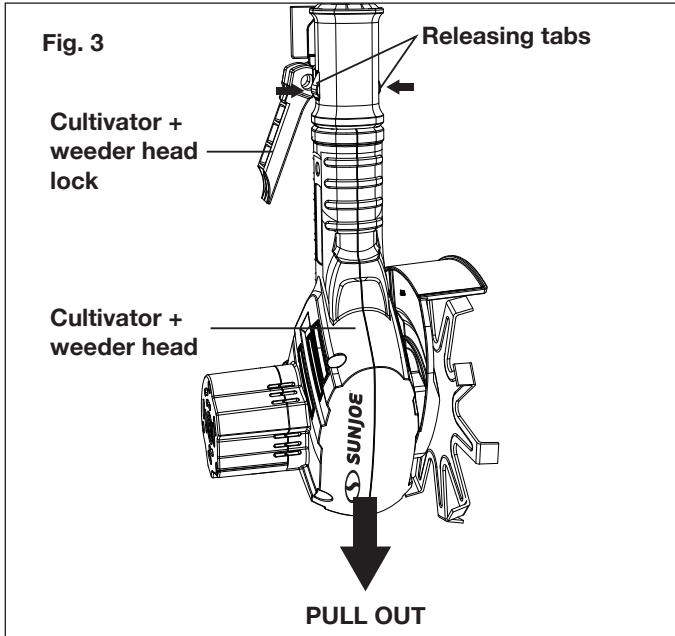


2. Flip up the cultivator + weeder head lock to lock the cultivator + weeder head in place (Fig. 2).



⚠️ WARNING! Make sure nuts, screws and locks are properly tightened before using the cordless cultivator + weeder.

- To disassemble the cultivator + weeder head from the pole assembly, unlock the cultivator + weeder head lock, then press in the releasing tabs on each side, and at the same time pull the cultivator + weeder head out from the pole assembly (Fig. 3).







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 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 30% capacity and requires charging
	The battery is at 60% capacity and requires charging soon
	The battery is at full capacity

NOTE: If the charge level button does not appear to be working, insert the charger and charge as needed.

NOTE: 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 iBAT24-LTE lithium-iON battery packs with compatible lithium-iON battery charger. 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's AC/DC plug.

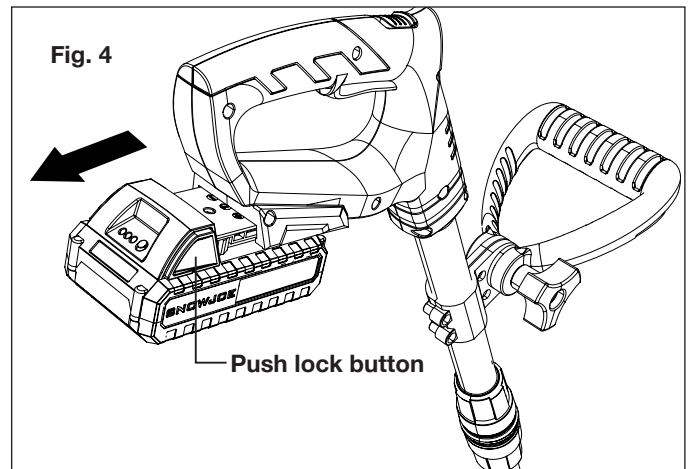
When to Charge the Ecosharp® LITE iBAT24-LTE Lithium-iON Battery

NOTE: The Ecosharp® LITE iBAT24-LTE 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 inserting the charger plug.

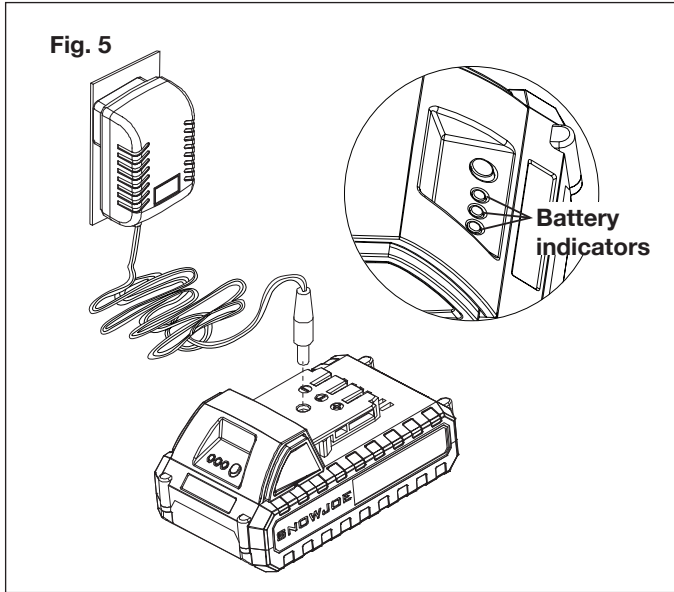
- Use the battery indicator lights to determine when to charge your Ecosharp® LITE iBAT24-LTE lithium-iON battery pack.
- You can "top-off" your battery pack's charge before starting a big job or after a long day of use.

Charging the Battery

- Push the push lock buttons on the battery to pull the battery pack out from the battery compartment (Fig. 4).



- Check that the mains voltage is the same as that marked on the rating plate of the battery charger. Then, plug the charger adapter into an appropriate AC power outlet. Connect the charger plug into the charge socket of the battery to start charging (Fig. 5).



3. The battery will take approximately 80 minutes to charge. The battery indicator LEDs will twinkle and illuminate one by one during the charging process. Unplug the charger immediately when the 3 LEDs are all illuminated.

⚠ CAUTION! FIRE HAZARD. When disconnecting the charger from the battery, be sure to unplug the charger from the outlet first, then disconnect the charger from the battery

Operation

Intended Use

The TJW24C cordless mini cultivator + weeder is designed for small gardens and flower beds, this cordless cultivator + weeder effectively loosens and turns over new soil. It may also be used to mix coarse soil with fertilizer, peat, and compost. This product may not be used to till extremely dry or wet soil.

The use of this product in rain or wet conditions is prohibited.

For safety reasons, it is essential to read the entire instruction manual before first use and to observe all the instructions contained within this manual.

This product is intended for private domestic use only. It is not intended for any commercial trade use. It must not be used for any purposes other than those described.

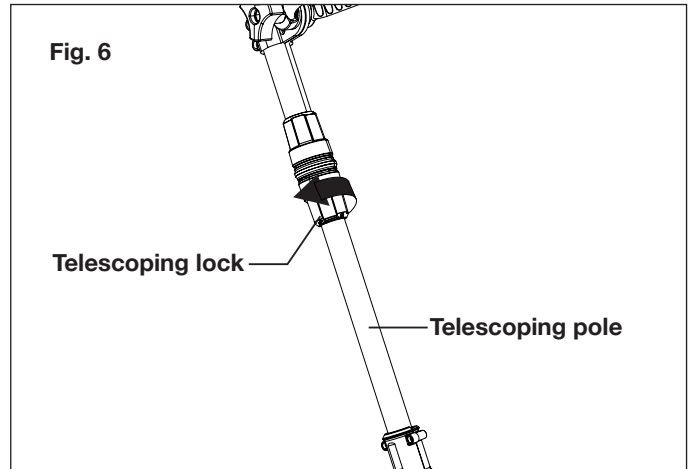
Telescoping Pole Adjustment

⚠ WARNING! Always switch the product off and remove the battery before making any adjustments.

This product is equipped with a telescoping pole that can be adjusted. To adjust the pole, follow the instructions below.

1. Unlock the telescoping pole by turning the telescoping lock clockwise. Extend the pole to the desired length (Fig. 6).

NOTE: Push poles toward each other to shorten the pole or pull them away from each other to lengthen the pole. Only extend the pole to the minimum length required to reach the ground.



2. Lock the telescoping pole in position by turning the telescoping lock counterclockwise, and ensure that the pole is secured.

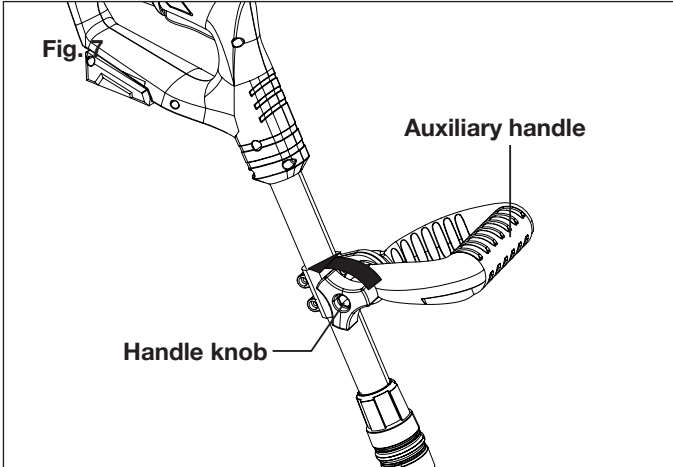
⚠ WARNING! Always ensure the telescoping pole is securely locked. Do not attempt to use the product with the pole unlocked.

Auxiliary Handle Adjustment

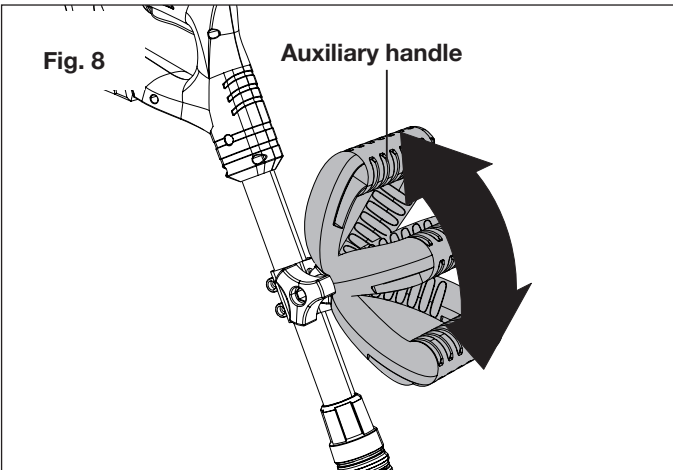
⚠ WARNING! Always switch the product off and remove the battery before making any adjustments.

NOTE: For maximum comfort and control, adjust the auxiliary handle to fit your height. Shorter users adjust the auxiliary handle to a lower position (away from your body). Taller users adjust the auxiliary handle to an upper position (towards to your body). Make sure your forearm is straight when using the machine.

1. Loosen the auxiliary handle by turning the handle knob counterclockwise (Fig. 7).



2. Adjust the auxiliary handle to a comfortable working position (Fig. 8).

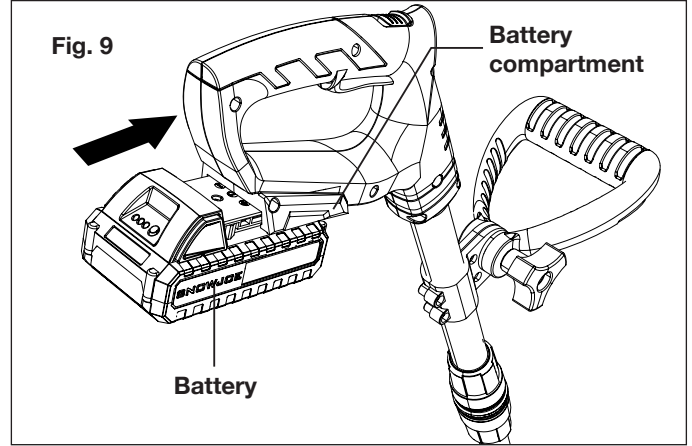


3. Turn the handle knob back to lock the auxiliary handle in position.

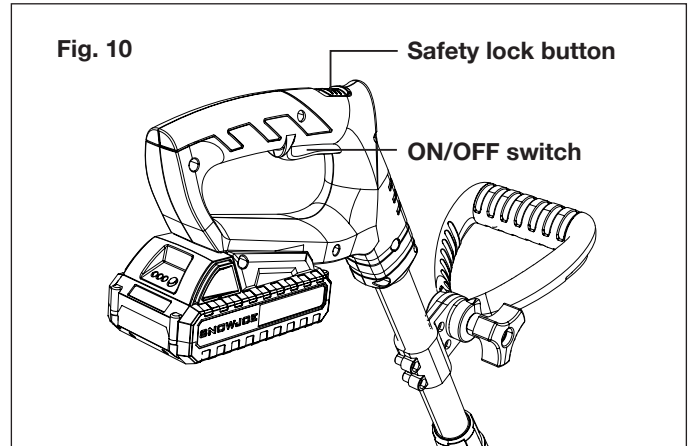
Starting + Stopping

⚠ WARNING! Rotating blade may cause serious injury. The blade will continue to turn for a few seconds after the tool has been switched OFF. Do not touch the rotating blade. Contact with hot components (i.e. motor housing, gear box, etc.) on the machine may cause burns. Allow the machine to cool before handling.

1. Slide the battery in the battery compartment until it clicks and locked into position (Fig. 9).



2. To turn the tool ON, press and hold the safety lock button while squeeze the ON/OFF switch. Once the tool is running, release the safety lock button (Fig. 10).



3. To switch OFF, release the ON/OFF trigger (Fig. 10).

Operating Tips

- Before each use, check the product, the battery, and any other accessories for damage. Do not use the product if it is damaged or shows wear.
- Double check that the accessories and attachments are properly fitted.
- Always hold the product by its handles. Keep the handles dry to ensure a secure grip.
- Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
- Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to a complete stop before averting your attention.
- Do not overwork yourself. Take regular breaks to ensure you can concentrate on the task at hand and have full control over the product.

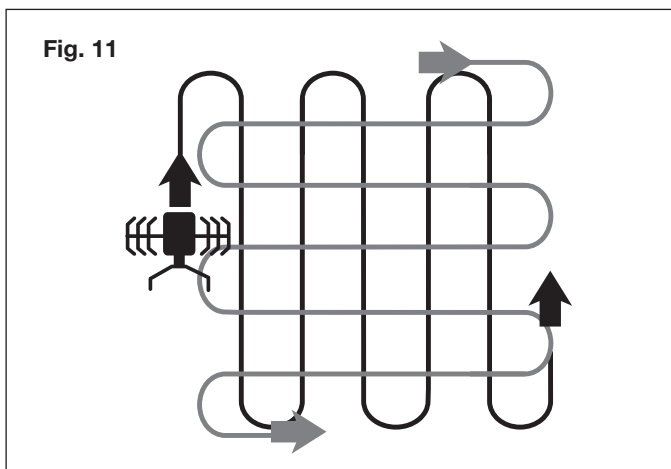
⚠️WARNING! In some countries, regulations define restrictions for use of such products, including the times and days when operation is permissible. Ask your community for detailed information and observe these regulations in order to preserve a peaceful neighbourhood and avoid committing administrative offences.

Tilling

- Make sure that the work area is clear of stones, sticks, wire, or other objects that could damage the product or its motor.
- Do not till very wet soil because wet soil tends to stick to the working tool, preventing proper blade rotation; it could also cause you to slip and fall.
- Always maintain a firm grip on the product. For better guidance, apply light pressure to the handles.

⚠️WARNING! Do not place hands, feet, or any other part of the body or clothing near the rotating blade or any other moving part. The blade begins to rotate forward once the On/Off switch is depressed. The blade continues to rotate until the On/Off switch is released. Failure to avoid contact with the rotating blade could cause serious personal injury.

- Do not try to till too deeply or force the product into soil that is extremely hard or resistant.
- Walk the product through the soil at a normal pace and in as straight a line as possible.
- Till in slightly overlapping rows. To till most effectively, follow the pattern indicated in Fig. 11. Start by moving the cultivator + weeder up and down in vertical lines, then work horizontally from left to right. This will keep the rows even and ensure that all the ground is tilled without missing any spots.



- Pay special attention when changing direction. Apply light pressure to the handle in order to lift the blade and facilitate the turn. Turn the product around using the wheels as a guide. Gradually release pressure on the handle and move the blade back to the ground.

⚠️WARNING! Stop the motor if the product strikes a foreign object. Switch the product off, remove the battery, and let it cool completely. Inspect the product thoroughly for damage and have any damage repaired before restarting.

Extensive vibration of the product during operation is an indication of damage. Immediately stop the motor and promptly inspect and repair the tool.

After Use

- Switch the product off, remove the battery, and let it cool completely.
- Check, clean, and store the product as described below.

Care + Maintenance

The Golden Rules for Care

⚠️WARNING! Always switch the product off, remove the battery, and let the product cool completely before inspecting, cleaning, or performing any other maintenance task.

- Keep the product clean. Remove any debris after each use and before storage.
- Regular and proper cleaning will help ensure safe use and prolong the life of the product.
- Inspect the product before each use for worn and damaged parts. If you find broken and/or worn parts, do not use the tool.

⚠️WARNING! Only perform the repairs and maintenance work described in this manual. Any other work must be performed by a qualified technician.

General Cleaning

- Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
- Be sure to clean the air vents after every use with a cloth and brush.
- Remove stubborn dirt with high pressure air (max. 3 bar).

NOTE: Do not use chemical, alkaline, abrasive, or other aggressive detergents or disinfectants to clean this product as such substances might damage the tool's surfaces.

- Check for worn or damaged parts. Replace worn parts as necessary or contact the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563) for repair before using the product again.

Cleaning the Underbody + Working Tool

⚠️ WARNING! Wear safety gloves when working on or near the working tool. Use appropriate tools (e.g a wooden stick) when necessary; never use your bare hands!

- Keep the underbody and blade clean and free of debris. Use a brush or another implement to remove soil from the working tool.
- All nuts and bolts must be checked periodically for tightness before operation. After prolonged use, especially in sandy soil conditions, the working tool will become worn and lose some of its original shape. Tilling efficiency will be reduced and the working tool should be replaced.
- Have worn or damaged working parts replaced with new ones of the same type by a qualified technician.
- To prolong the life span of the working tool and the product, lubricate the blade after each use.

⚠️ WARNING! Unexpected blade movement may cause personal injury. Before servicing, repairing, or inspecting the unit, turn the motor OFF and remove the battery. Wait for the blade to completely stop rotating before conducting inspection, cleaning, or maintenance.

Before and after each use, check the product and accessories (or attachments) for wear and damage. When necessary, only use identical replacement parts that are approved by the manufacturer.

IMPORTANT!

- Wear protective gloves when cleaning or maintaining the machine.
- Do not use cleaning fluids or solvents or spray the machine down with water (especially water under pressure) when cleaning the machine.

NOTE: After each use, follow these steps to properly clean the unit:

1. Remove soil, dirt, and foliage stuck in the blade, drive shaft, tool surface, and vents with a brush or dry cloth.
2. Spray or rub biodegradable oil onto the blade.
3. Clean soiled grips with a damp cloth.

Always inspect the machine for damaged and worn parts after each use. Check that safety features (i.e. labels, guards, etc.) are in place. Check that nuts, bolts, and screws are tight.

Replace the Tilling Blade

The machine is fitted with a 10 tine steel tilling blade that can easily be changed. Only use the original replacement part specified for this cultivator + weeder.

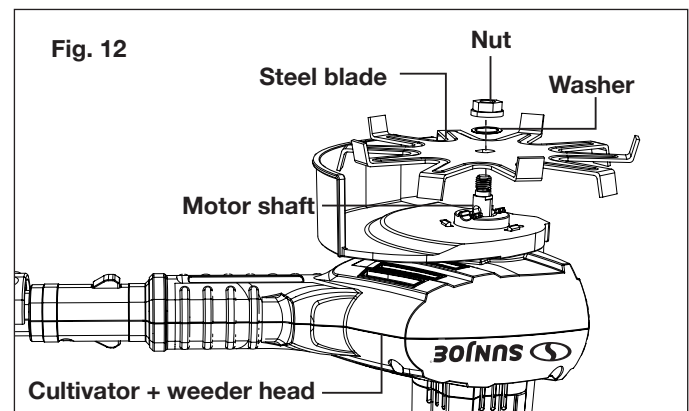
You can purchase a replacement blade (Model TJW24C-BLADE) and other genuine replacement parts by visiting us online at snowjoe.com or calling our toll-free customer service

helpline at 1-866-SNOWJOE (1-866-766-9563). The use of parts that do not meet the original equipment specifications may lead to improper performance of the cultivator + weeder, may compromise operator safety and will void the manufacturer's warranty.

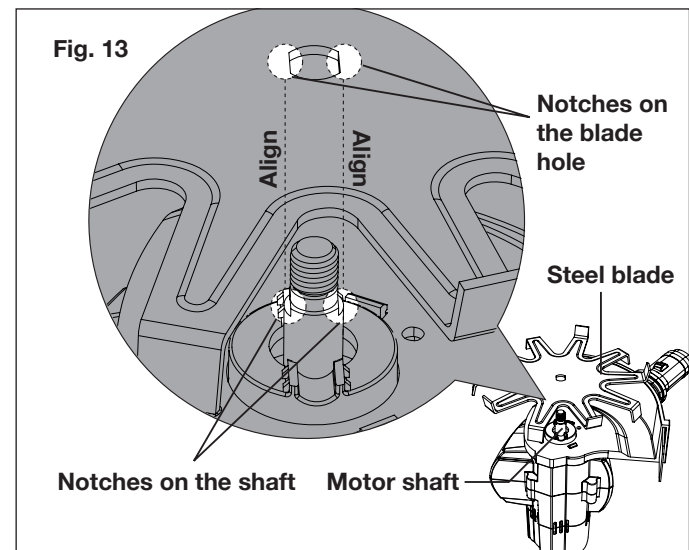
⚠️ WARNING! The tilling blade is sharp and can cause severe personal injury if handled incorrectly. Wrap the blade or wear protective gloves, and use extra caution when handling.

To replace the tines, follow the steps below:

1. Turn off the unit, remove the battery and wait until the blade has come to a standstill.
2. Using the provided wrench, remove the nut and the washer used to fix the tilling blade from the motor shaft, then remove the old blade from the motor shaft (Fig. 12).



3. Insert the new steel blade on the motor shaft. Make sure to align the notches on the blade hole with the notches on the motor shaft, and press the blade firmly on the motor shaft until it sits flush (Fig. 13).



Note: Failure to align the notches will cause the blade to be unstable and wobble during use.

4. Reassemble the washer and the nut to fix the blade. Use the wrench provided to secure the nut tightly. Insert the battery and resume working.

Repair

This product does not contain any parts that can be repaired by the consumer. 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.

Storage

- Examine the cordless cultivator + weeder 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.
- Remove the battery from the cordless cultivator + weeder before storing.
- Clean the product as described above.
- Store the product and its accessories in a dark, dry, frost-free, and well-ventilated place.
- Always store the product in a place that is inaccessible to children.
- The ideal storage temperature is between 50°F (10°C) and 86°F (30°C).
- We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

Battery + Charger Off-Season Storage

1. Do not expose your battery pack or charger to water, rain or allow them to get wet. This could permanently damage the charger and the battery pack. Do not use oil or solvents to clean or lubricate your battery pack as the plastic casing can become brittle and crack, causing a serious risk of injury.
2. Store the battery pack and charger at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur. As with other battery pack types, permanent capacity loss can result if the pack is stored for long periods of time at high temperatures (over 120°F/49°C).
3. Ecosharp® LITE iBAT24-LTE lithium-ion battery packs maintain their charge during storage longer than other battery pack types. As a general practice, it is best to unplug the battery charger and remove the battery pack when they are not in use. Recharge the battery pack every 6 months to 50% capacity during off-season storage to maintain optimal battery performance.

Transportation

- Switch the product off.
- Always carry the product by its handle.
- If you are transporting the cultivator + weeder in a vehicle, brace it properly to protect it from heavy impact or strong vibrations.
- Secure the product to prevent it from falling over or slipping.

Recycling + Disposal

The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is functioning properly. Recycle the package afterwards or keep it for long-term storage.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or local store for recycling regulations.

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 + Support

If your Sun Joe® TJW24C cordless cultivator + weeder requires service or maintenance, please call the Snow Joe® + Sun Joe® customer service center at 1-866-SNOWJOE (1-866-766-9563).

Model + 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 #:	
T J W 2 4 C	
Serial #:	

iCHRG24-AC

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.

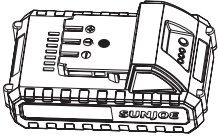
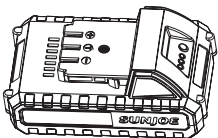
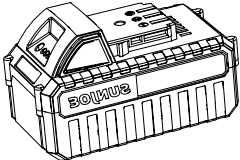

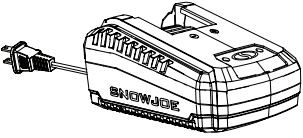
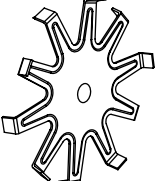
However, there is no guarantee that interference will not occur in a particular installation.

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 cordless cultivator + weeder. Contact Snow Joe® + Sun Joe® if you are unsure whether it is safe to use a particular replacement part or accessory with your cordless cultivator + weeder. The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

Accessories	Item	Model
<p>①</p> 	<p>Ecosharp® LITE 24 V 2.0 Ah Lithium-iON Battery</p> <p>Charging Time (for full charger): iCHRG24-AC – 80 minutes iCHRG24-QC – 55 minutes</p> <p>Battery Run Time (Max.): 60 min</p>	<p>iBAT24-LTE</p>
<p>②</p> 	<p>Ecosharp® LITE 24 V 2.5 Ah Lithium-iON Battery</p> <p>Charging Time (for full charger): iCHRG24-AC – 100 minutes iCHRG24-QC – 70 minutes</p> <p>Battery Run Time (Max.): 80 min</p>	<p>iBAT24-LT</p>
<p>③</p> 	<p>Ecosharp® LITE 24 V 5.0 Ah Lithium-iON Battery</p> <p>Charging Time (for full charger): iCHRG24-AC – 3.5 hour iCHRG24-QC – 2.5 hour</p> <p>Battery Run Time (Max.): 150 min</p>	<p>iBAT24-XR</p>
<p>④</p> 	<p>24 V Lithium-iON Battery Charger</p>	<p>iCHRG24-AC</p>
<p>⑤</p> 	<p>24 V Lithium-iON Battery Quick Charger</p>	<p>iCHRG24-QC</p>
<p>⑥</p> 	<p>Replacement Blade</p>	<p>TJW24C-BLADE</p>

NOTE: Accessories are subject to change without any obligation on the part of Snow Joe® + Sun Joe®. Accessories can be ordered online at 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® CUSTOMER PROMISE

ABOVE ALL ELSE, Snow Joe® + Sun Joe® are dedicated to you, our customer. We strive to make your experience as pleasant as possible. Unfortunately, there are times when a product does not work or breaks under normal operating conditions. We think it's important that you know what you can expect from us. That's why we created the Snow Joe® + Sun Joe® promise.

OUR PROMISE: Snow Joe® + Sun Joe® warrant new products for two years from the date of purchase. If your product does not work, or there's an issue with a specific part, we will fix this by either sending you a free replacement part or by sending you a new or comparable product at no charge. How cool is that! Before you know it, you'll be back in action cutting, sawing, mowing, washing and...?

PRODUCT REGISTRATION:

Snow Joe®, LLC ("Snow Joe® + Sun Joe®") strongly encourages you to register your purchase. You can register online at snowjoe.com/ProductRegistration, or by printing and mailing in a registration card available online from our website, or calling our Customer Service Department at **1-866-SNOWJOE (1-866-766-9563)**, or by e-mailing us at help@snowjoe.com. Failure to register your product purchase will not diminish your warranty rights. However, registering your purchase will allow Snow Joe® + Sun Joe® to better serve you with any of your customer service needs.

WHO CAN SEEK WARRANTY COVERAGE?

This Warranty is extended by Snow Joe® + Sun Joe® to the owner of this Machine (a "Machine" consists of a product powered by a motor) for residential and personal household use only. This Warranty does not apply to products used for commercial, rental or re-sale purposes. Should ownership of this machine change during the 2-year period, please update the Machine's owner information at snowjoe.com/ProductRegistration.

WHAT IS COVERED?

Snow Joe® + Sun Joe® warrants to the owner that if this Machine fails within 2 years from the date of purchase due to a defect in material or workmanship or as a result of normal wear and tear from ordinary household use, Snow Joe® + Sun Joe® will send a replacement part or product, as needed, free of charge and with free shipping to the original purchaser.

If, in Snow Joe® + Sun Joe®'s sole discretion, the failed Machine cannot be repaired with a part, Snow Joe® + Sun Joe® will elect to either (A) send a new Machine at no charge and with free shipping or (B) refund the full purchase price to the owner.

WHAT IS NOT COVERED?

This Warranty does not apply to the Machines that have been used commercially or in non-household applications. This Warranty does not cover cosmetic changes that do not affect performance. This Warranty is only valid if the Machine is used and maintained in accordance with the instructions, warnings and safeguards contained in the owner's manual. Snow Joe® + Sun Joe® will not be responsible for the cost of any unauthorized warranty repairs. 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.

Wearing parts like belts, augers, chains and tines are not covered under this warranty, and can be purchased at 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.

Repair, replacement or refund of the purchase price are the exclusive remedies of purchaser and the sole liability of Snow Joe® + Sun Joe® under this warranty. No employee or representative of Snow Joe® + Sun Joe® is authorized to make any additional warranty or any modification to this warranty which may be binding upon Snow Joe® + Sun Joe®. Accordingly, purchaser should not rely upon any additional statements made by any employee or representative of Snow Joe® + Sun Joe®. In no event, whether based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise, shall Snow Joe® + Sun Joe® be liable for any special, indirect, incidental, or consequential damages, including, without limitation, loss of profit or revenue.

Some states do not allow limits on warranties. In such states, the above limitations may not apply to you.

Outside the USA, other warranties may apply.



snowjoe.com

⚠WARNING! This product or its power cord contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. For more information go to www.P65Warnings.ca.gov.

⚠WARNING! Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known [to the State of California] to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles. For more information go to www.P65Warnings.ca.gov.