



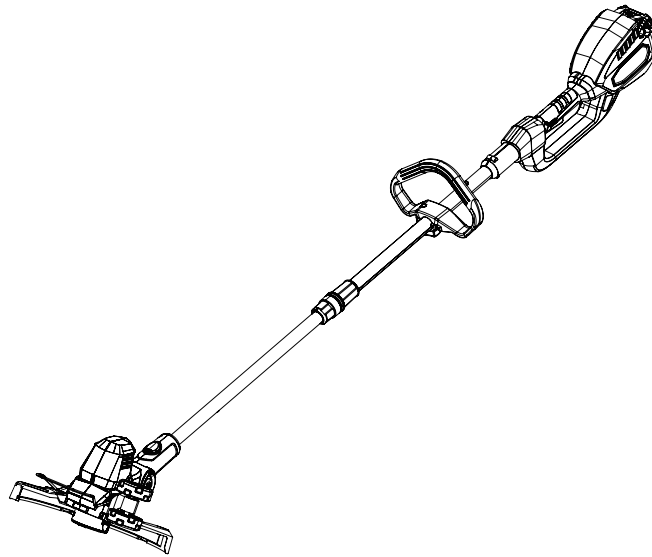
OPERATOR'S MANUAL

## CORDLESS TRIMMER + EDGER

24V\* IONMAX™ | 4.0 Ah | 12-INCH

Model 24V-ST14

Form No. SJ-24V-ST14-880E-M (K)



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Original instructions.

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New Castle, DE 19720

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

**SAVE THESE INSTRUCTIONS**



## OPERATOR'S MANUAL

# CORDLESS TRIMMER + EDGER

24V\* IONMAX™ | 4.0 Ah | 12-INCH

EN

Model 24V-ST14

Form No. SJ-24V-ST14-880E-M (K)

## 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.

**⚠ DANGER!** The cordless trimmer + edger should only be used for cutting lawns and for trimming along the borders of flower beds. Other uses of the trimmer + edger that are not indicated in these instructions could damage the unit or seriously injure the operator.

### General Machine Safety Warnings

**⚠ WARNING!** Read all safety warnings, instructions, illustrations and specifications provided with this machine. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

#### 1. Work area safety

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- Do not operate machine in explosive atmospheres, such as in the presence of flammable liquids, gases**

**or dust.** Machine create sparks which may ignite the dust or fumes.

- Keep children and bystanders away while operating a machine.** Distractions can cause you to lose control.

#### 2. Electrical safety

- Machine plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) machine.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not operate the machine in rain or wet conditions.** This may increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a machine outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a machine in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

#### 3. Personal safety

- Stay alert, watch what you are doing and use common sense when operating a machine. Do not use a machine while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating machine may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the machine.** Carrying machine with your finger on the switch or energising machine that have the switch on invites accidents.

- d. Remove any adjusting key or wrench before turning the machine on.** A wrench or a key left attached to a rotating part of the machine may result in personal injury.
- e. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the machine in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

#### 4. Machine use and care

- a. Do not force the machine. Use the correct machine for your application.** The correct machine will do the job better and safer at the rate for which it was designed.
- b. Do not use the machine if the switch does not turn it on and off.** Any machine that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the machine before making any adjustments, changing accessories, or storing machine.** Such preventive safety measures reduce the risk of starting the machine accidentally.
- d. Store idle machine out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate the machine.** Machine are dangerous in the hands of untrained users.
- e. Maintain machine and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use.** Many accidents are caused by poorly maintained machine.
- f. Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. Use the machine, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the machine for operations different from those intended could result in a hazardous situation.
- h. Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### 5. BATTERY tool use and care

- a. Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of BATTERY pack may create a risk of fire when used with another BATTERY pack.
- b. Use machine only with specifically designated BATTERY packs.** Use of any other BATTERY packs may create a risk of injury and fire.
- c. When BATTERY pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the BATTERY terminals together may cause burns or a fire.
- d. Under abusive conditions, liquid may be ejected from the BATTERY; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the BATTERY may cause irritation or burns.
- e. Do not use a BATTERY pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, EXPLOSION or risk of injury.
- f. Do not expose a BATTERY pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.  
  
**NOTE:** The temperature "130°C" can be replaced by the temperature "265°F".
- g. Follow all charging instructions and do not charge the BATTERY pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the BATTERY and increase the risk of fire.


#### 6. Service

- a. Have your machine serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the machine is maintained.
- b. Never service damaged BATTERY packs.** Service of BATTERY packs should only be performed by the manufacturer or authorized service providers.

## Lawn trimmer and lawn edge trimmer safety warnings

- a. Do not use the machine in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- b. Thoroughly inspect the area for wildlife where the machine is to be used.** Wildlife may be injured by the machine during operation.
- c. Thoroughly inspect the area where the machine is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.

- d. **Before using the machine, always visually inspect to see that the cutter and the cutter assembly are not damaged.** Damaged parts increase the risk of injury.
- e. **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- f. **Keep all cooling air inlets clear of debris.** Blocked air inlets and debris may result in overheating or risk of fire.
- g. **Wear eye protection and ear protection.** Adequate protective equipment will reduce personal injury.
- h. **While operating the machine, always wear non-slip and protective footwear. Do not operate the machine when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with the moving cutter.
- i. **Always wear clothing such as trousers that covers the operator's legs while operating the machine.** Contact with the moving cutter or line may cause injury.
- j. **Keep bystanders away while operating the machine.** Thrown debris can result in serious personal injury.
- k. **Do not operate the machine above waist height.** This helps prevent unintended cutter contact and enables better control of the machine in unexpected situations.
- l. **Exercise caution when operating the machine in wet grass. Walk, never run.** This reduces the risk of slipping and falling which may result in personal injury.
- m. **Do not operate the machine on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- n. **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- o. **Keep all power cords and cables away from cutting area.** Power cords or cables may be hidden in hedges or bushes and can be accidentally cut or damaged by the line or cutter.
- p. **Keep all parts of the body away from the moving trimmer cutter or line. Do not clear material from the machine until it has been disconnected from the power source.** The moving trimmer cutter or line may result in serious personal injury.
- q. **Carry the machine with the machine switched off and away from your body.** Proper handling of the machine will reduce the likelihood of accidental contact with a moving trimmer cutter or line.
- r. **Only use replacement cutting heads and trimmer cutters or lines specified by the manufacturer. Do not replace the trimmer cutters or lines with metal wires or blades.** Incorrect replacement parts may cause loss of control, breakage and injury.

 **CAUTION!** The trimmer line spool will continue to rotate after turning the trimmer OFF. Wait until the trimmer line spool has completely stopped before making contact.


- Only use the same type of line originally provided with the tool.
- Do not use the unit to cut grass that is not in contact with the ground.
- Do not switch the trimmer + edger ON in enclosed or poorly ventilated spaces or in the presence of flammable and/or explosive substances such as liquids, gases, and powders.
- The user of the trimmer + edger is responsible for any damage sustained by third parties that has been caused by the trimmer + edger within the working area.
- Only cut during broad daylight or with adequate artificial light.
- Do not cross roads or gravel paths while the unit is still running.
- When the trimmer + edger is not in use, store it in a dry place and out of the reach of children.
- The trimmer + edger must be operated in a vertical position, perpendicular to the ground.
- Check regularly that all screws are properly secured.


## 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 Sun Joe® 24V lithium-ion battery pack only in its designated Sun Joe® 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 – 105°F (5°C – 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.
- **Charger 24VCHRG-QC 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 disconnect battery pack from unplugged charger.

**⚠ 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 pack** – Battery pack 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 pack** – 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 All Season Power customer service center at 1-866-225-9723 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** – When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- **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 trimmer + edger 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 cordless trimmer + edger, and therefore pose a safety risk.
5. Do not throw the battery pack 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 the battery 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 power supply button any more if the protective cut-off has been activated. This may damage the battery pack.
11. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
12. Use appliances only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
13. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
14. 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.
15. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
16. Follow all charging instructions and do not charge the battery pack or appliance outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.

## 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 All Season Power customer service center at 1-866-225-9723
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 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 connecting with 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 the battery 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. Protect your cordless tool and the battery charger from moisture and rain. Moisture and rain can cause dangerous cell damage.
2. Do not use the cordless tool or the battery charger near vapors and flammable liquids.
3. Use the battery charger and cordless tools only in dry conditions and at an ambient temperature of 41°F – 105°F (5°C – 40.5°C).

4. Do not keep the battery charger in places where the temperature is liable to reach over 105°F (40.5°C). In particular, do not leave the battery charger in a car that is parked in the sunshine.
5. 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.
6. Store the charger and your cordless tool only in dry locations with an ambient temperature of 41°F – 105°F (5°C – 40.5°C). Store your lithium-ion battery pack in a cool, dry place at a temperature of 77°F (25°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%).
7. 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.
8. 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.

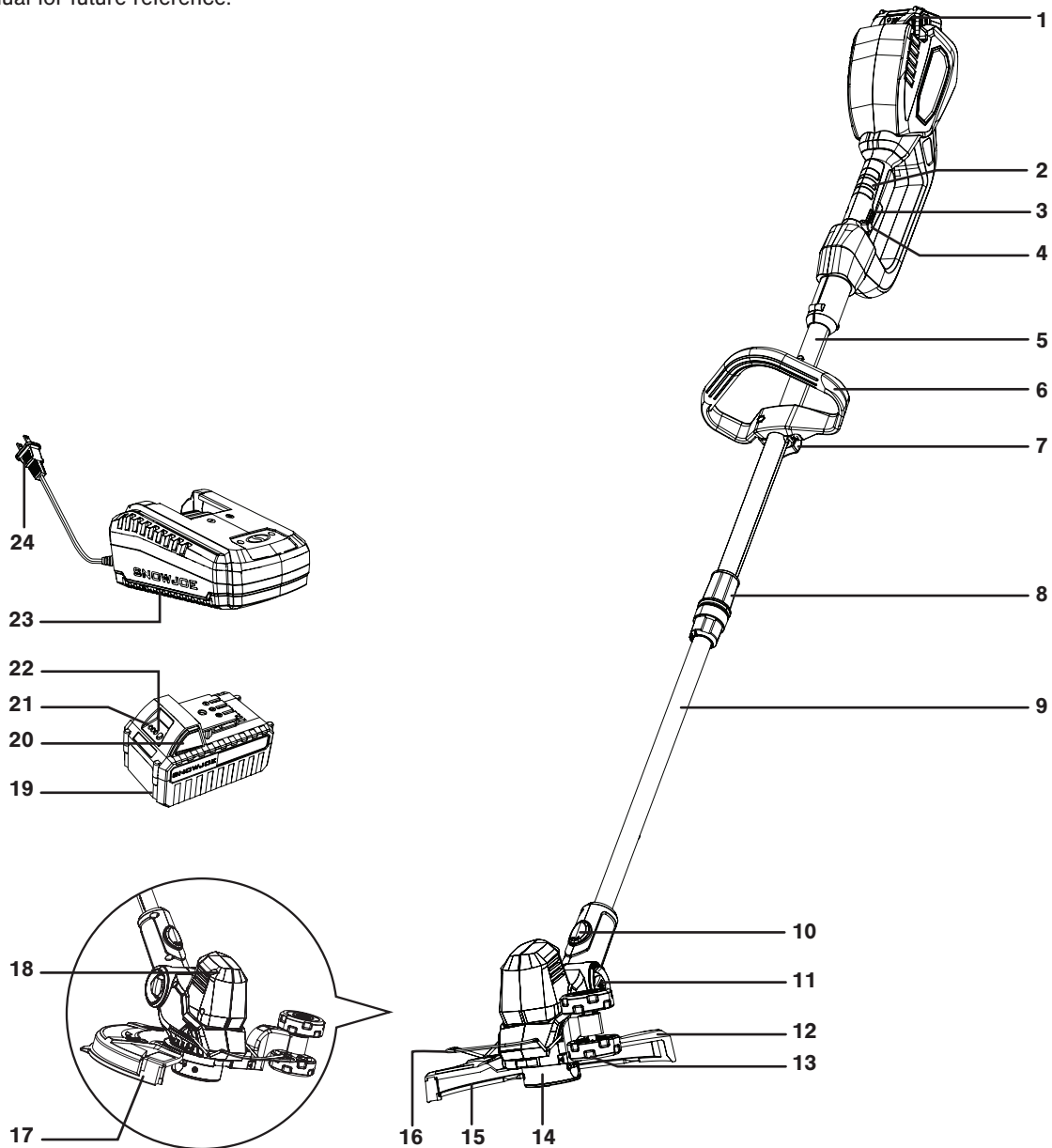
# Safety Symbols

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.
	<b>WEAR EYE AND HEARING PROTECTION</b> – For protection against injury, wear ear defenders and safety goggles.		<b>WARNING!</b> Disconnect battery before maintenance.
	<b>Certificated marking</b>		

# Know Your Cordless Trimmer + Edger

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



1. Battery compartment

2. Handle grip

3. Trigger switch

4. Safety lock button

5. Upper pole

6. Auxiliary handle

7. Auxiliary handle knob

8. Telescoping locking coupler

9. Lower pole

10. Trimmer/edger head locking button

11. Multi-angle head adjustment button

12. Safety guard

13. Edger guide wheel

14. Spool housing

15. Cutting line

16. Edger guide + flower guard

17. Line cutter

18. Motor housing

19. 24V\* IONMAX™ lithium-ion battery (24VBAT) featuring exclusive EcoSharp® technology

20. Push lock button (2)

21. Battery indicator

22. Push button for battery indicator

23. 24V\* IONMAX™ lithium-ion quick charger (24VCHRG-QC)

24. Charger plug



## Technical Data

Motor .....	250 W
Battery Voltage Max* .....	24V d.c.
Battery Capacity .....	4.0 Ah
Charger Input .....	120V AC, 60 Hz, 75 W
Charger Output .....	26V d.c., 2.2A
Charge Time Max .....	1 hr 50 min
Cutting Width Max .....	12 in. (30 cm)
Trimmer Line Length .....	16.4 ft. (5 m)
Trimmer Line Diameter .....	0.063 in. (1.6 mm)
Cutting Speed .....	6500 ± 10% rpm
Telescoping Pole Length .....	5 ft – 5.8 ft (1.5 m – 1.8 m)
Multi-Angle Head .....	0°, 15°, 30°, 45°
Product Dimensions .....	72.3 in. x 8.6 in x 8 in. (183.5 cm x 21.9 cm x 29.6 cm)
Net weight .....	8.5 lbs (3.85 kg)

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

## Unpacking

### Carton Contents

- Cordless trimmer + edger
  - Safety guard
  - Safety guard screws (2)
  - Auxiliary handle
  - Edger guide wheel
  - Edger guide + flower guard
  - 24V\* IONMAX™ lithium-ion battery
  - 24V\* IONMAX™ lithium-ion battery charger
  - Manual
1. Carefully remove the cordless trimmer + edger 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 All Season Power customer service center at 1-866-225-9723.

**NOTE:** Do not discard the shipping carton and packaging material until you are ready to use the cordless trimmer + edger. 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!






## 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. Turn off the cordless trimmer + edger as soon as possible.
- 1 level monitoring LED is lit: Battery is flat. Turn off the cordless trimmer + edger 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 24V\* IONMAX™ lithium-ion battery pack with its compatible 24V\* IONMAX™ lithium-ion 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.

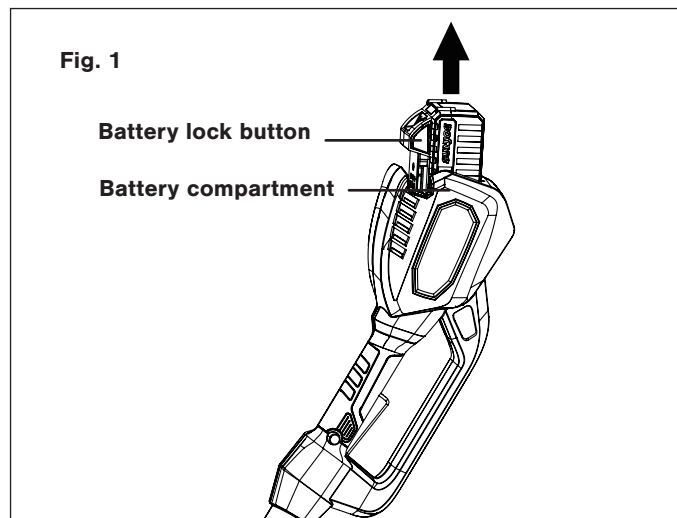
## When to Charge the 24VBAT Lithium-Ion Battery

**NOTE:** The 24VBAT lithium-ion battery pack does not develop a "memory" when charged after only a partial discharge. Therefore, it is not necessary to run down the battery pack before charging.

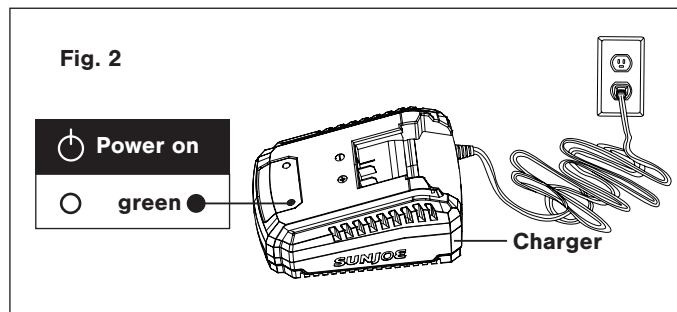
- Use the battery indicator lights to determine when to charge your 24VBAT lithium-ion battery pack.
- You can "top-off" your battery pack's charge before or after a long day of use.

## Charging the Battery

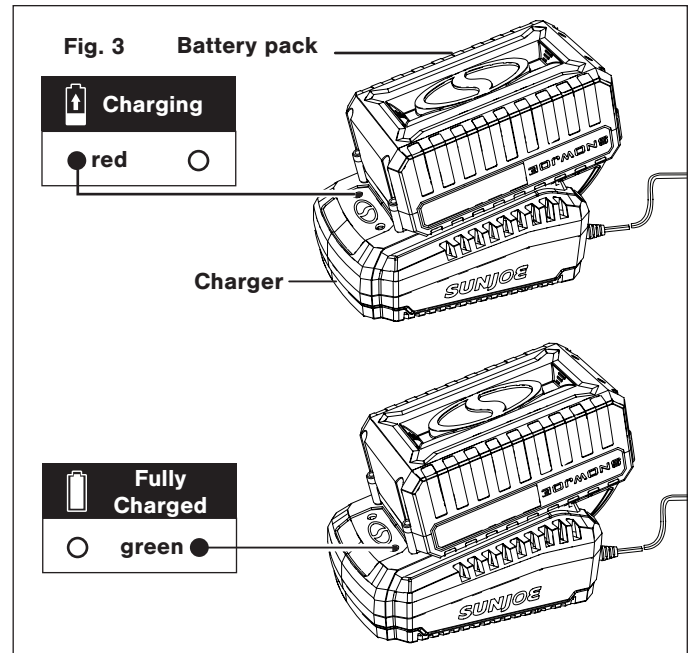
1. Push the push lock buttons on the battery to pull the battery pack out from the battery compartment (Fig. 1).



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 top right green light will illuminate and stay green (Fig. 2).



3. Place the battery pack into the charger by sliding it into position. When you insert the battery into the charger, the top right green light will go off, and the top left red light will illuminate to indicate that the battery is charging (Fig. 3).



4. When the charger light turns green, the battery is fully charged (Fig. 3).

**NOTE:** A fully discharged pack with an internal temperature in the normal range will fully charge in 1 hr 50 mins (between 32°F/0°C and 113°F/45°C).

5. If the light indicators do not come on at all, check that the battery pack is fully seated into the bay. Remove the battery pack and reinsert. If the problem persists, contact an authorized Snow Joe® + Sun Joe® dealer or call the All Season Power customer service center at 1-866-225-9723 for assistance.
6. When charging is complete, remove the battery from the charger by sliding it backward.

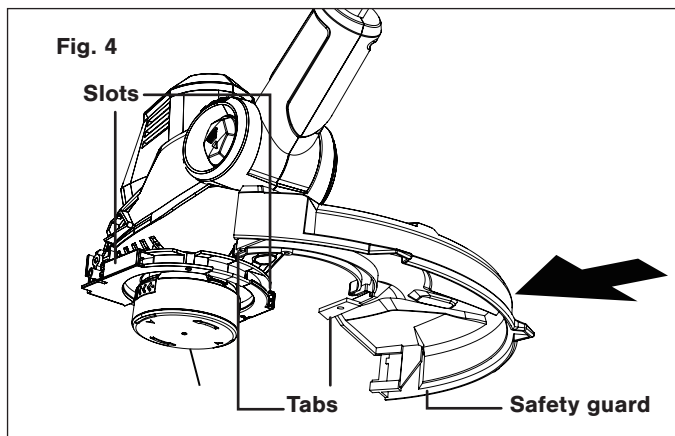
## Assembly

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

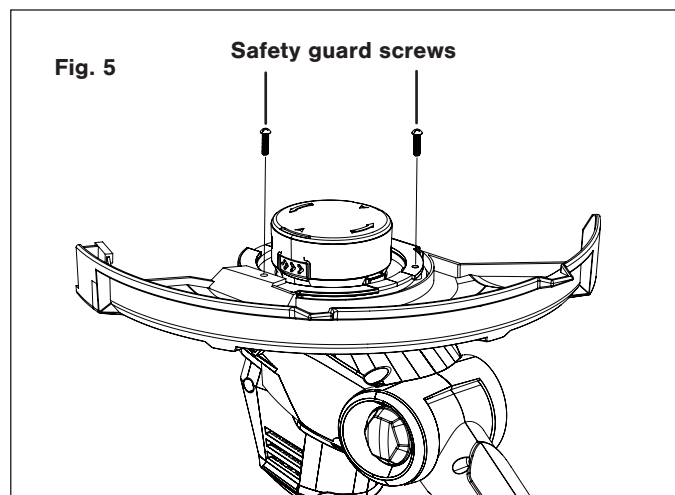
## Fitting the Safety Guard

**⚠ WARNING!** The safety guard must be properly installed. The guard provides the operator and other bystanders with some protection from thrown objects.

1. Remove the battery pack from the trimmer + edger.
2. Slide the tabs of the safety guard into the slots on the trimmer head. Push to make sure the safety guard clicks into position (Fig. 4).



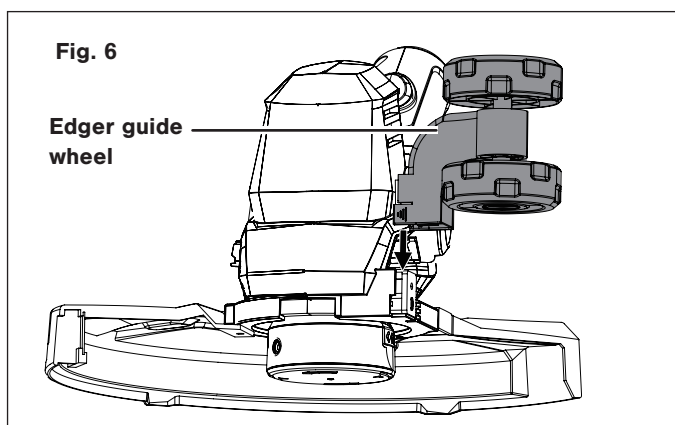
3. Lay the trimmer on the ground with the trimmer head facing upward then secure the safety guard to the trimmer head with the screws provided (Fig. 5).



**NOTE:** Never use the tool unless the safety guard is properly installed.

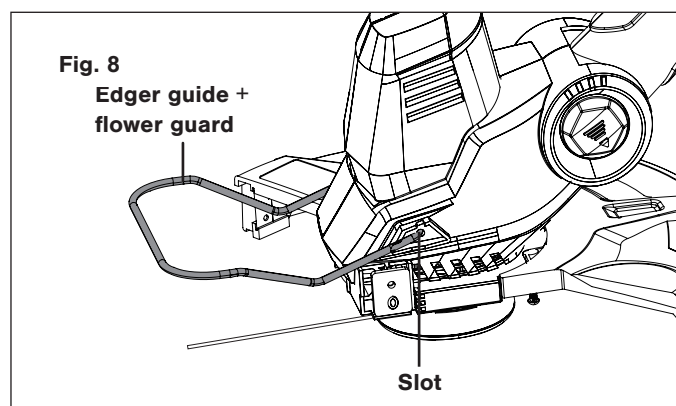
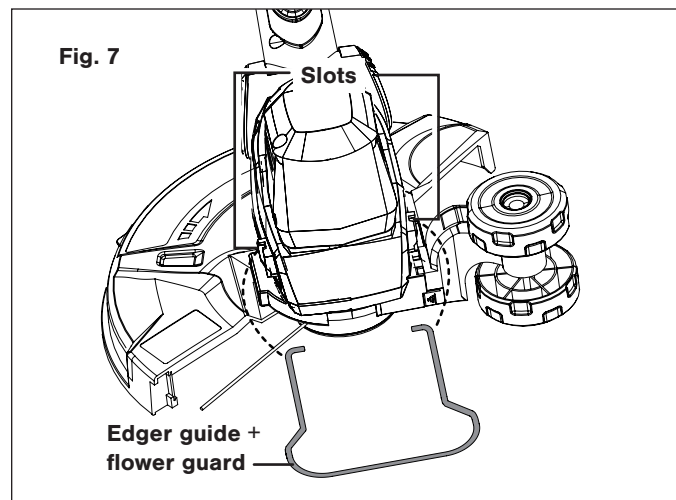
## Fitting the Edger Guide Wheel

1. Mount the edger guide wheel by sliding it from above as shown (Fig. 6). Firmly press the edger guide wheel into place.



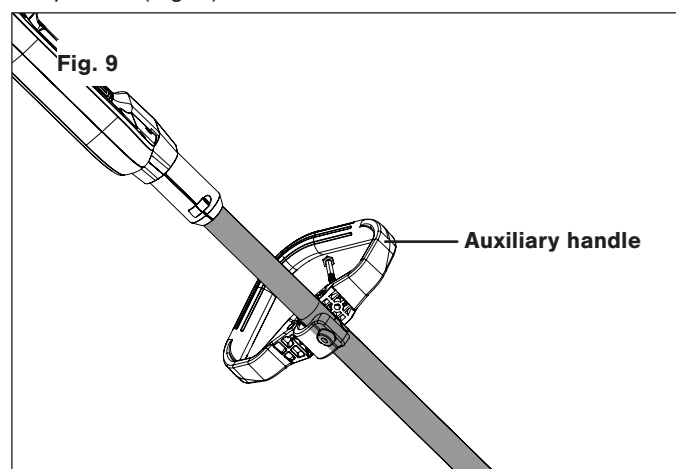
## Fitting the Edger Guide + Flower Guard

1. Lightly spread the edger guide + flower guard by hand while approaching the motor housing.
2. While lightly spreading the edger guide + flower guard, fit the curved parts into the slot on the motor housing, and release (Figs. 7 & 8).

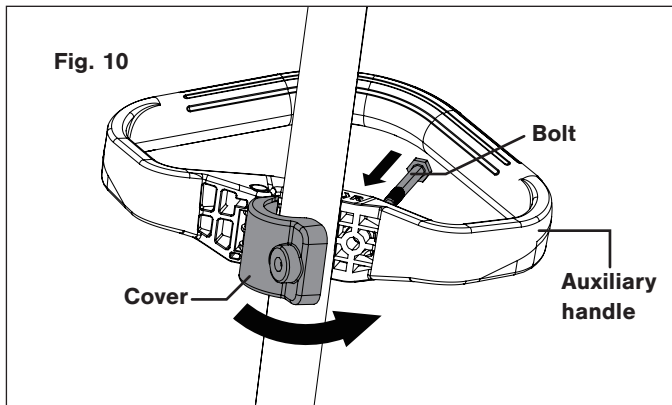


## Fitting the Auxiliary Handle

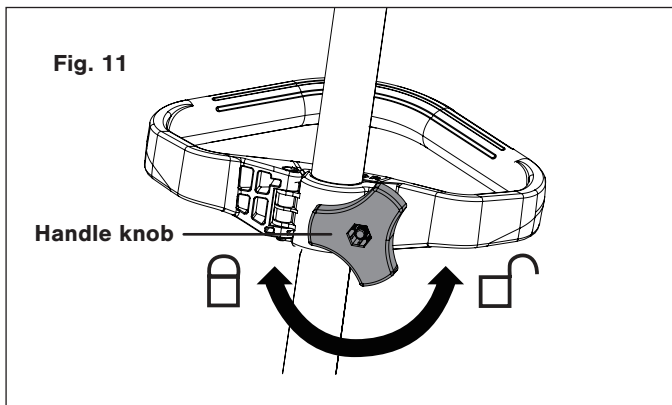
1. Adjust the auxiliary handle to a comfortable working position (Fig. 9).



2. Close the cover and insert the bolt into the opening (Fig. 10).



3. Turn the handle knob clockwise to tighten and secure the auxiliary handle in place. (Fig. 11).



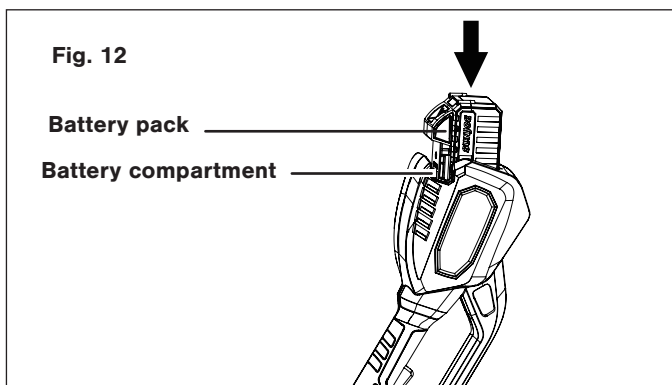
## Operation

### Starting + Stopping

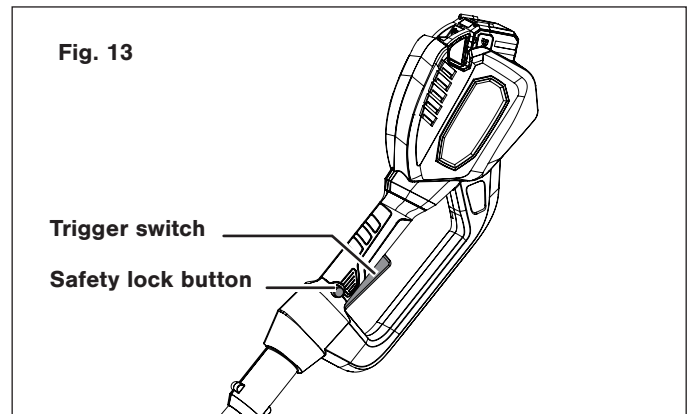
Before you start the unit, make sure the trimmer is not contacting with any object.

1. Slide the battery pack in the battery compartment until it snaps into position (Fig. 12).

**IMPORTANT!** Make sure that the battery pack is secured to the tool before beginning operation.



2. To turn the trimmer + edger ON, press and hold the safety lock button with your thumb, then squeeze the ON/OFF trigger switch with your fingers. Once the machine powers on, you can release the safety lock button and proceed with operation (Fig. 13).

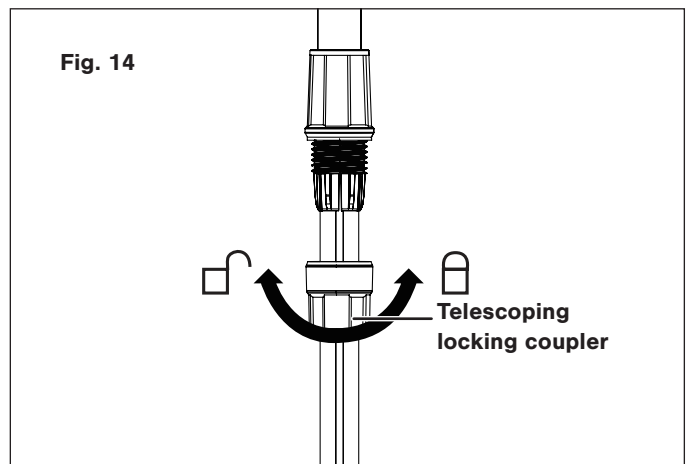


3. To switch OFF, release the trigger switch. Remove the battery from the battery compartment (Fig. 13).

**⚠ WARNING!** Always remove the battery pack from the trimmer + edger during work breaks and after finishing work.

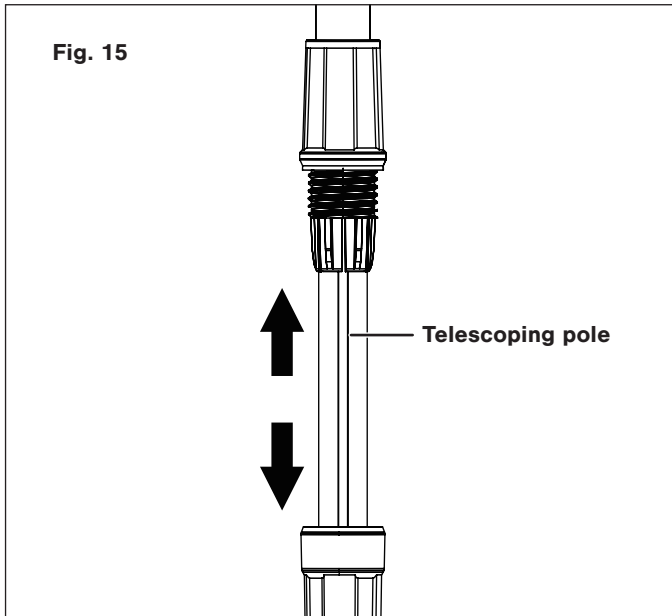
### Telescoping Pole Adjustment

1. Disconnect the trimmer + edger by removing the battery pack.
2. Turn the telescoping locking coupler clockwise to unlock the telescoping pole (Fig. 14).



3. Adjust the pole to the desired length (Fig. 15).

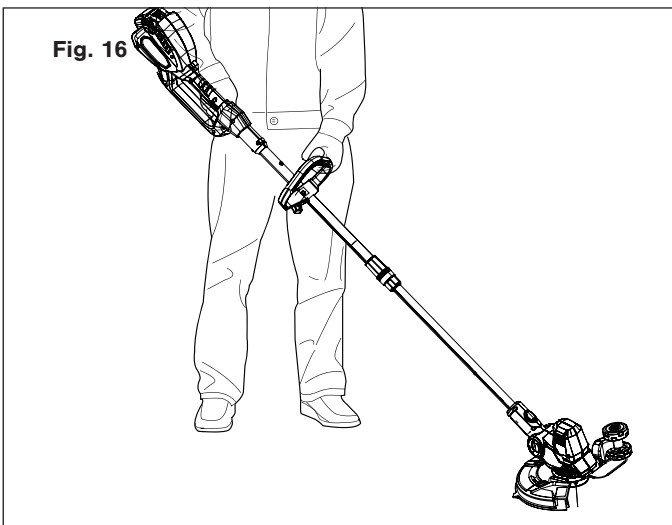
**NOTE:** Push poles toward each other to shorten the pole or pull them away from each other to lengthen the pole. Only extend the pole to the minimum length needed.



4. Lock the telescoping pole in position by turning the telescoping locking coupler counter-clockwise. (Fig. 14)

## Trimming

- Wear non-slip gloves for maximum grip and protection. Hold the trimmer + edger with your right hand on the rear handle while the right arm slightly bent, and your left hand on the front auxiliary handle with the left arm straight. The trimmer + edger should be held at a comfortable position with the rear handle about hip height. The trimmer head should be parallel with the ground and easily contacts the material to be cut without the operator having to bend over (Fig. 16).



- For the best cutting action against walls, fences, and in high grass, move the trimmer + edger slowly so grass is cut with the tip of the high speed nylon line. Do not force the trimmer. Cutting with more than the tip will reduce cutting efficiency and may overload the motor.

- Avoid dragging the trimmer + edger and string spool hub in contact with the ground.
- Trim only when grass and weeds are dry.
- Cut tall grass from top down. This will prevent grass from wrapping around the shaft housing and string head which may cause damage from overheating.
- If grass becomes wrapped around the string head:
  - Stop the trimmer.
  - Remove the battery.
  - Remove the grass.

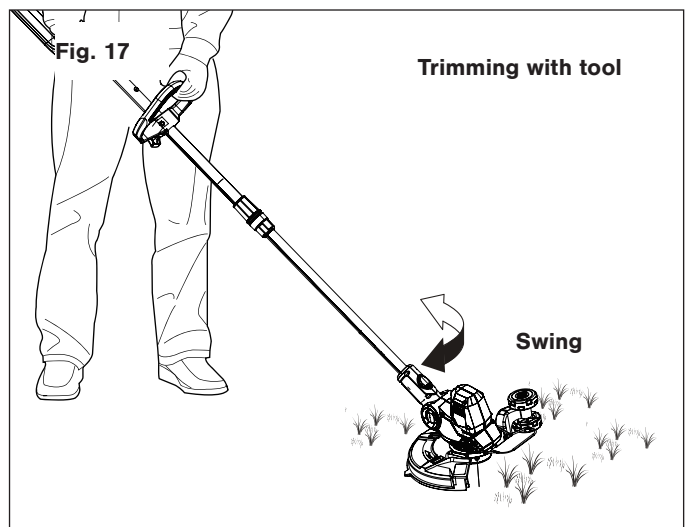
**! WARNING!** Always hold the trimmer away from body. Any contact with the trimmer + edger cutting head while operating can result in serious personal injury.

- The life of your nylon line is dependent upon following instructions for proper use, as well as what is being cut, and where the cutting is being done.

**! WARNING!** Remove stones, loose pieces of wood, and other objects from the cutting area. The cutting line continues to rotate for a few seconds after switching off the trimmer. Let the motor come to a complete stop before resuming operation. Do not rapidly switch the trimmer off and on.

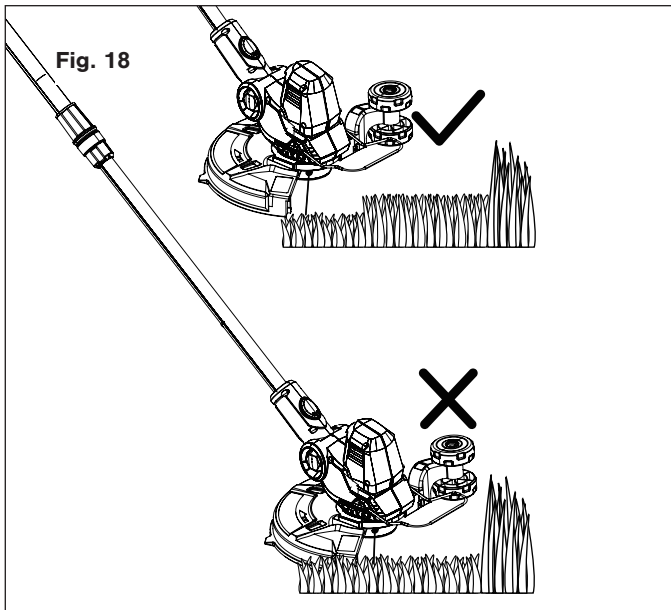
**! CAUTION!** Always wear eye protection.

- The correct angle for the cutting attachment is parallel to the ground.
- Slowly swing the trimmer from side to side (Fig. 17).



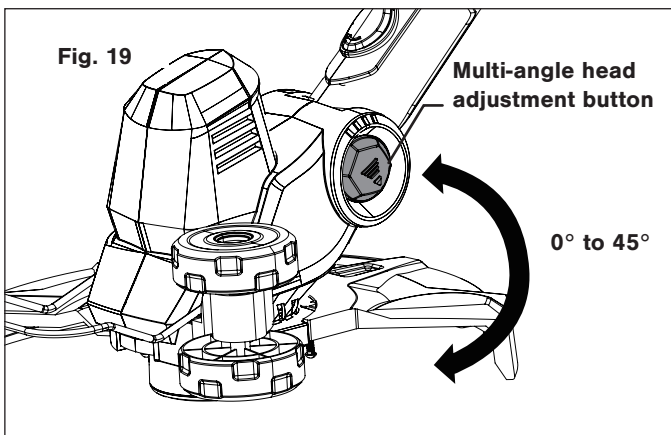


3. Do not overload your trimmer; instead, take small “bites” of grass, working from the top to the bottom. This will keep the machine operating at high speed and will greatly improve its cutting efficiency (Fig. 18).



## Adjusting Multi-Angle Trimming Head

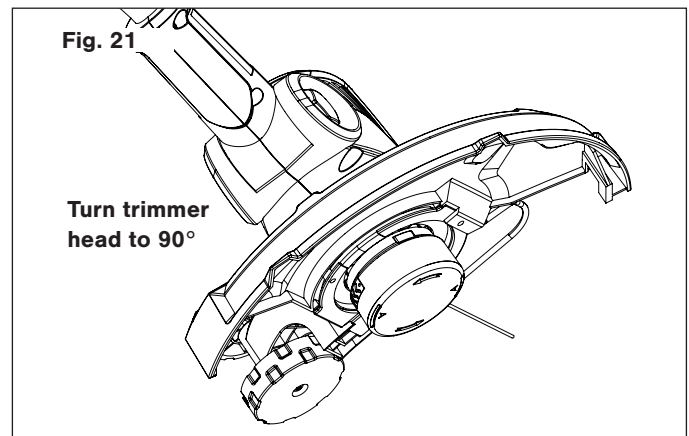
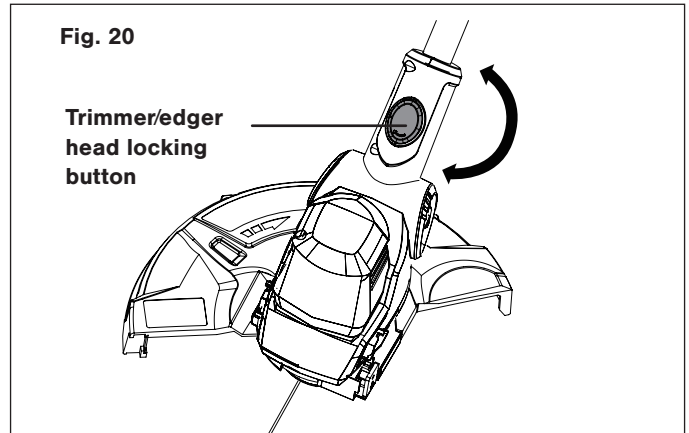
1. Press the multi-angle head adjustment button to adjust the trimmer head in four positions (0°, 15°, 30° and 45°) (Fig. 19).



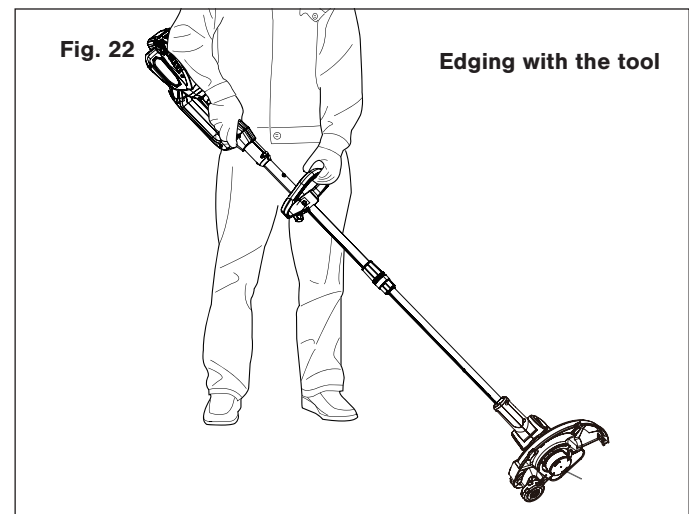
## Edging

1. To convert from trimming to edging, turn OFF the tool and remove the battery.
2. Remove the edger guide + flower guard if it prevents the cutting line from contacting the soil.

3. Press trimmer/edger head locking button then turn the trimmer head to 90 degree (Figs. 20 & 21).



4. Reinstall the battery. Press the safety lock button and then the trigger.
5. Hold the trimmer in a comfortable position with right hand on the rear handle and left hand on the front auxiliary handle (Fig. 22). Slowly walk with the tool, holding it with your arms steady. Moving your body instead of your arms will ultimately make the cut on the grass much straighter.



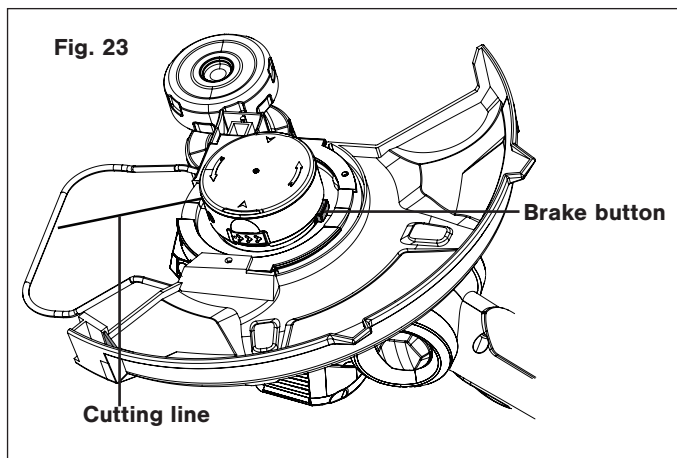
6. Move the unit in a backwards direction when trimming around edges to avoid damage.

**⚠ WARNING!** Do not trim near electrical wires.

## Advancing Cutting Line

**NOTE:** Your trimmer + edger uses 0.063 in. (1.6 mm) diameter nylon line to cut grass and weed quickly and easily. The cutting line will wear faster if the cutting is done along sidewalks or other abrasive surfaces or heavier weeds are being cut.

1. Turn off the tool and remove the battery.
2. Press the brake button and pull the cutting line. Repeat this step until the lines are the length of the safety guard (Fig. 23).
3. Continue trimming and edging.



**⚠ WARNING!** Do not operate the grass trimmer + edger in a tree, on a ladder, or on a scaffold; this is extremely dangerous.

**⚠ WARNING!** Do not bump the unit on ground in attempt to feed line or for any other purpose.

## Maintenance

**⚠ WARNING!** Make sure to remove the battery before inspecting its parts.

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

- Your cutting line can dry out over time. To keep your line in top condition, store spare pre-wound spools or bulk line in a plastic resealable bag with a tablespoon of water.
- Never use water or chemical cleaners to clean your trimmer + edger. Wipe it clean with a dry cloth.
- Plastic parts may be cleaned by using mild soap and a damp rag.

- Always store your trimmer + edger in a dry place. Do not allow any liquid to get inside it.

- Keep the motor ventilation slots clean.

**IMPORTANT!** To ensure product safety and reliability, repairs, maintenance, and adjustments to this power tool should be performed only with identical replacement parts. Contact your authorized Snow Joe® + Sun Joe® dealer or call the All Season Power customer service center at 1-866-225-9723 for assistance.

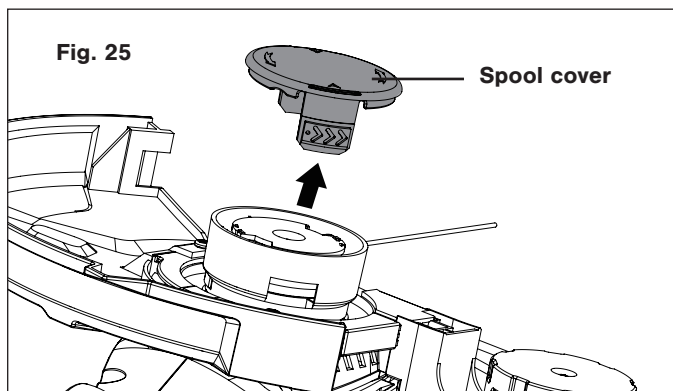
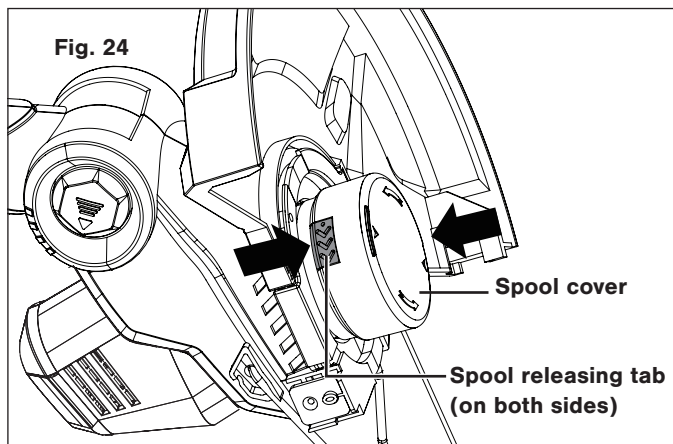
## Replacing the Spool + Clearing Jams and Tangled Lines

**⚠ WARNING!** Remove the battery from the battery compartment before changing the cutting line.

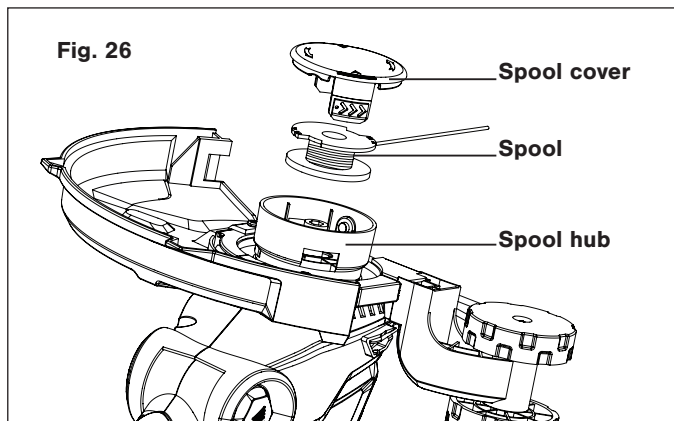
**⚠ WARNING!** Never use metal-reinforced line, wire, or rope, etc. These can break off and become dangerous projectiles.

**NOTE:** 16.4 ft. (5 m) single-line replacement spool (model 24V-ST14-SPOOL) is available for use with the 24V-ST14 trimmer + edger. Visit [shopjoe.com](http://shopjoe.com) to purchase this accessory online. Always use the recommended nylon cutting line with diameter no more than 0.063 in. (1.6 mm). Using line other than that specified may cause the trimmer + edger to overheat or become damaged.

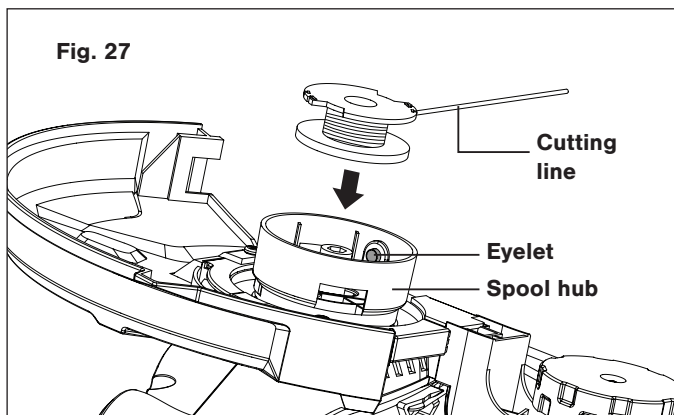
1. Press together both release tabs on the line spool cover and remove the cover by pulling it straight off (Figs. 24 & 25).



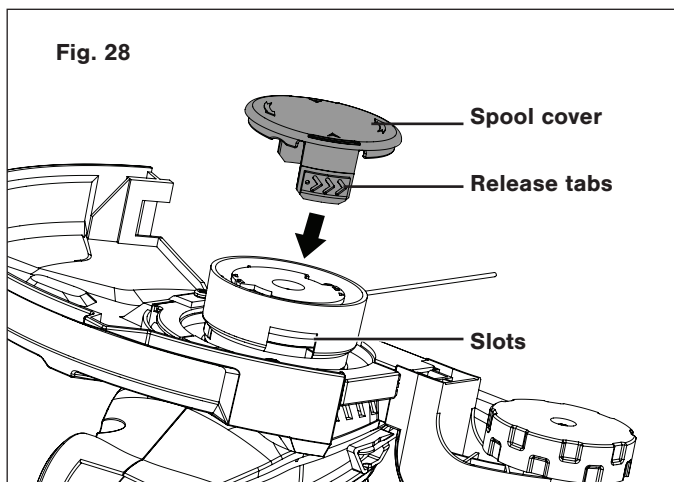
2. Lift and remove the spool out of the hub (Fig. 26) and clean out the remaining cutting line, remove any jams, or dirt and grass residue.



3. Re-insert the spool into the spool hub as follow, or insert a new pre-wound spool (Fig. 26).
4. Insert each line end through its respective eyelet on each side of the hub and gently press the spool down (Fig. 27).



5. Reinstall the spool cover by depressing the release tabs into their slots in the hub, and push down until the spool cover clicks into place (Fig. 28).



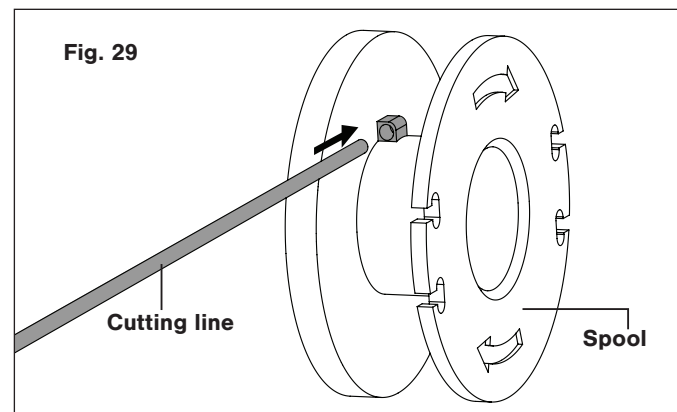
**IMPORTANT:** Only use original replacement parts specified for this machine.

You can purchase a replacement pre-wound spool (Model 24V-ST14-SPOOL) and other genuine replacement parts by visiting us online at [shopjoe.com](http://shopjoe.com) or calling our toll-free customer service helpline at 1-866-225-9723. The use of parts that do not meet the original equipment specifications may lead to improper performance of the grass trimmer, may compromise operator safety and will void the manufacturer's warranty.

## Winding the Line

**NOTE:** Should you wish to wind the line yourself, the instructions are provided below. Self-winding, however, is NOT recommended because if the line is not wound properly it can cause the trimmer's auto feed system to malfunction. For this reason, users are strongly urged to purchase the pre-wound spool.

1. Turn off and remove the battery. Make sure the spool has come to a complete stop.
2. To remove the spool from the trimmer hub, follow steps 1 and 2 from the section "Replacing the Spool + Clearing Jams and Tangled Lines" beginning on page 16.
3. Measure and cut a 16.4 ft (5 m) piece of new cutting line. Insert the end of the cutting line into the small hole located inside of the spool (Fig. 29).



4. Bend the cutting line 180 degree around the hole, secure the bending part with your left hand thumb, and use your right hand to wind the line according to the arrows on the spool (Figs. 30 & 31). Use slight tension to make sure the line is tight around the spool.

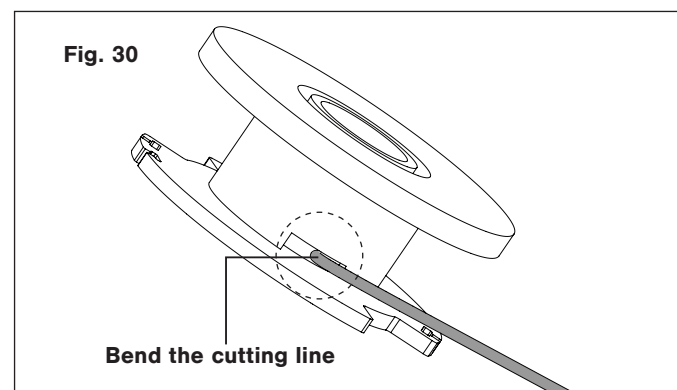
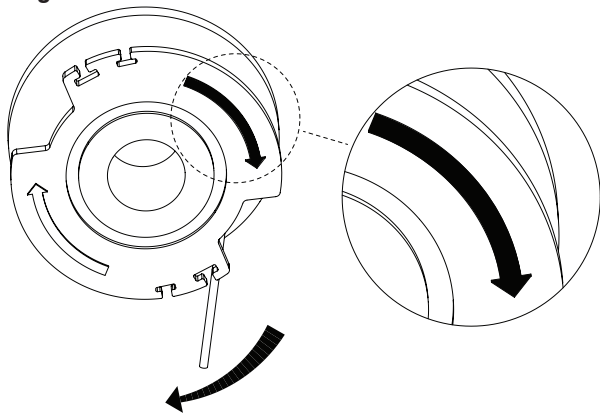


Fig. 31



5. Re-install the spool as instructed in steps 3 to 5 of "Replacing the Spool + Clearing Jams and Tangled Lines".

**CAUTION!** Catapulted pieces of nylon line may cause injury.

**WARNING!** Pay attention to the winding direction.

**NOTE:** Always replace the spool with a new pre-wound spool. Visit [shopjoe.com](http://shopjoe.com) to purchase the pre-wound spool (model 24V-ST14-SPOOL) for this cordless trimmer + edger.

## Storage

Follow these recommendations for storing the trimmer + edger.

- Clean the trimmer + edger thoroughly before storing.
- Store the trimmer + edger in a stable and safe position out of the reach of children. Keep the trimmer + edger in a dry place where the temperature is not too hot or too cold.
- When storing the trimmer + edger, do not rest it against the floor. Hang it by the upper handgrip so that the guard does not touch anything. If the guard rests against a surface, its shape and dimensions could be permanently altered, and could render the machine unsafe to use.

## 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® 24V-ST14 cordless trimmer + edger requires service or maintenance, please call the All Season Power customer service center at 1-866-225-9723.

## 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 4 V - S T 1 4

Serial #:

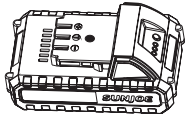
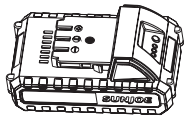
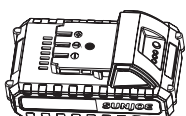
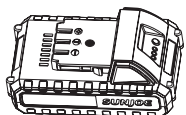
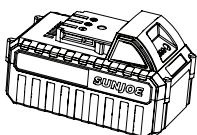
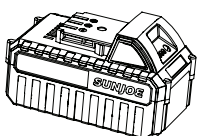
# Troubleshooting

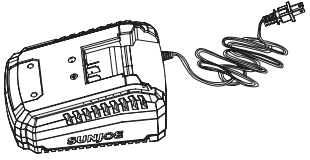
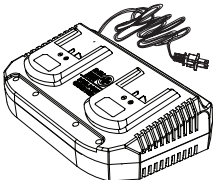
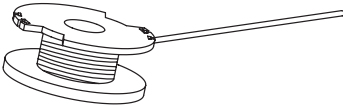
Problems	Possible Cause	Possible Solution
The motor does not run or the tool runs slowly.	<ul style="list-style-type: none"> <li>• Battery is not inserted well or is flat.</li> <li>• Spool housing cannot rotate freely.</li> <li>• Cutting line does not protrude.</li> </ul>	<ul style="list-style-type: none"> <li>• Check to make sure the battery is charged and inserted well.</li> <li>• Remove the spool and clean the slots; carefully remove any grass and weeds or other debris.</li> <li>• Cut the spool line off so that it just reaches the line trimming blade.</li> <li>• Contact your authorized Snow Joe® + Sun Joe® dealer or call All Season Power customer service center at 1-866-225-9723 if the trimmer does not start after completing these checks.</li> </ul>
Line fails to cut off.	<ul style="list-style-type: none"> <li>• Line cutter in guard is covered, damaged, or missing.</li> <li>• Line extends past guard.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact your authorized Snow Joe® + Sun Joe® dealer or call All Season Power customer service center at 1-866-225-9723.</li> <li>• Rewind or trim line to line cutter.</li> </ul>



## 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 trimmer + edger. Contact All Season Power if you are unsure whether it is safe to use a particular replacement part or accessory with your cordless trimmer + edger. The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

Accessories	Item	Model
<b>①</b> 	24V* IONMAX™ 1.3 Ah Lithium-Ion Battery	24VBAT-LTW
<b>②</b> 	24V* IONMAX™ 1.5 Ah Lithium-Ion Battery	24VBAT-LTX
<b>③</b> 	24V* IONMAX™ 2.0 Ah Lithium-Ion Battery	24VBAT-LTE
<b>④</b> 	24V* IONMAX™ 2.5 Ah Lithium-Ion Battery	24VBAT-LT
<b>⑤</b> 	24V* IONMAX™ 4.0 Ah Lithium-Ion Battery	24VBAT
<b>⑥</b> 	24V* IONMAX™ 5.0 Ah Lithium-Ion Battery	24VBAT-XR

Accessories	Item	Model
<b>7</b> 	24V* IONMAX™ lithium-ion Battery Quick Charger	24VCHRG-QC
<b>8</b> 	24V* IONMAX™ lithium-ion Dual Port Battery Charger	24VCHRG-DPC
<b>9</b> 	Grass Trimmer Single-Line Replacement Spool	24V-ST14-SPOOL

**NOTE:** Accessories are subject to change without any obligation on the part of All Season Power to provide notice of such changes. Accessories can be ordered online at [shopjoe.com](http://shopjoe.com) or via phone by contacting the All Season Power customer service center at 1-866-225-9723.



## ALL SEASON POWER CUSTOMER PROMISE

**ABOVE ALL ELSE**, All Season Power LLC (“All Season Power”) is dedicated to you, our customer. We strive to make your experience as pleasant as possible. Unfortunately, there are times when a Snow Joe®, Sun Joe®, Aqua Joe®, or Auto Joe® product (“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 have a Limited Warranty (“Warranty”) for our Products.

### OUR WARRANTY:

All Season Power warrants new, genuine, powered and non-powered Products to be free from defects in material or workmanship when used for ordinary household use for a period of two years from the date of delivery of the Product to the original, end-user purchaser when purchased from All Season Power or from one of All Season Power’s authorized sellers with proof of purchase. Because All Season Power is unable to control the quality of its Products sold by unauthorized sellers, unless otherwise prohibited by law, this Warranty does not cover Products purchased from unauthorized sellers. If your Product does not work or there’s an issue with a specific part that is covered by the terms of this Warranty, All Season Power will elect to either (1) send you a free replacement part, (2) replace the Product with a new or comparable product at no charge, or (3) repair the Product. How cool is that!

**This Warranty gives you specific legal rights, and you may also have other rights which vary from State to State.**

### PRODUCT REGISTRATION:

All Season Power strongly encourages you to register your Product. You can register online at [shopjoe.com/register](http://shopjoe.com/register), or by printing and mailing in a registration card available online from our website, or by calling our Customer Service Department at **1-866-225-9723**, or by e-mailing us at [help@allseasonpower.com](mailto:help@allseasonpower.com). Failure to register your Product will not diminish your warranty rights. However, registering your Product will allow All Season Power to better serve you with any of your customer service needs.

### WHO CAN SEEK LIMITED WARRANTY COVERAGE:

This Warranty is extended by All Season Power to the original purchaser and original owner of the Product.

### WHAT IS NOT COVERED?

This Warranty does not apply if the Product has been used commercially or for non-household or rental applications. This Warranty also does not apply if the Product was purchased from an unauthorized seller. This Warranty also does not cover cosmetic changes that do not affect performance. Wearing parts like belts, augers, chains and tines are not covered under this Warranty, and can be purchased at [shopjoe.com/support](http://shopjoe.com/support) or by calling **1-866-225-9723**.



Keep your warranty intact. Only use **CERTIFIED AUTHENTIC** Snow Joe®, Sun Joe®, Aqua Joe® + Auto Joe® replacement parts + accessories. Use of any other parts + accessories will void the warranty. Genuine parts + accessories can be found and purchased online at [shopjoe.com/support](http://shopjoe.com/support) by entering the model number of your product.

