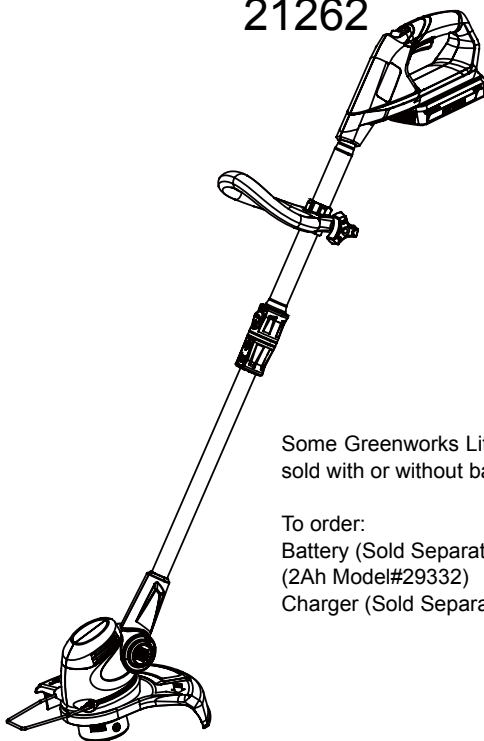



greenworks™

20V LITHIUM-ION CORDLESS STRING TRIMMER

21262



Some Greenworks Lithium-Ion products are sold with or without battery and charger.

To order:

Battery (Sold Separately)

(2Ah Model#29332)

Charger (Sold Separately) (Model#29372)

Owner's Manual



TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)

 Read all safety rules and instructions carefully before operating this tool.

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PRODUCT SPECIFICATIONS

20V CORDLESS STRING TRIMMER

Type.....	Cordless, battery-powered
Battery.....	20 V, 2 Ah Lithium-Ion
Speed.....	8000 RPM (no load)
Cutting Path.....	12" (305mm)
Line diameter.....	0.065" (1.65 mm)
Weight	5.7 lbs (2.6 kg) with battery



GENERAL SAFETY RULES

WARNING

Read and understand all instructions before using this product. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Do not allow children or untrained individuals to use this unit.
- Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not handle plug or tool with wet hands.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Always wear safety glasses with side shields. Everyday glasses have only impact resistant lenses. They are NOT safety glasses that comply with ANSI Z87.1. Following this rule will reduce the risk of eye injury. Use face mask if operation is dusty.
- Wear eye protection when operating this product. Secure long hair above shoulder level to prevent entanglement in moving parts.
- Do not expose to rain, store indoors.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving part.
- Keep hair, loose clothing, fingers and all body parts away from openings and moving parts.
- Wear heavy long pants, boots, and gloves. Avoid loose garments or jewelry that could get caught in moving parts of the machine or its motor.
- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
- Secure long hair so it is above shoulder level to prevent entanglement in any moving parts.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Keep all bystanders, children, and pets at least 50 ft. away.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.

GENERAL SAFETY RULES

- Do not put any object into openings. Do not use with any opening blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Use only identical manufacturer's replacement parts and accessories. Use of any other parts may create a hazard or cause product damage.
- Do not charge battery tool in rain, or damp or wet location. Following this rule will reduce the risk of electric shock.
- For household or operate use only.
- Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- Remove or disconnect battery before servicing, cleaning or removing material from the gardening appliance.
- Use only Greenworks 20v Lithium-Ion Batteries.
- Store idle appliances - When not in use, string trimmer should be stored indoors in a dry, locked place out of the reach of children.
- Do not dispose of the batteries in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
- Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- Do not place battery tools or their batteries near fire or heat. This will reduce the risk of explosion and possibly injury.
- Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- For best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F. To reduce the risk of serious personal injury, do not store outside or in vehicles.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. following this rule will reduce the risk of serious personal injury.
- If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service center to avoid risk.

GENERAL SAFETY RULES

- Do not point the string trimmer in the direction of people or pets.
- When not in use, string trimmer should be stored indoors in a dry, locked up place—out of the reach of children.
- Maintain tool with care. Keep fan area clean for best and safest performance. Follow instructions for proper maintenance. Do not attempt to clear clogs from tool without first removing the battery.
- To reduce the risk of electrical shock, do not expose to rain, do not use on wet surfaces. Store indoors.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this power tool. If you loan someone this power tool, loan them these instructions also.

CHILD SAFETY

Tragic accidents can occur if the operator is not aware of the presence of children.

- Keep children out of the working area and under the watchful care of a responsible adult.
- Do not allow children under the age of 14 to operate this trimmer. Children who are 14 years of age and older must read and understand the operating instructions and safety rules in this manual and must be trained and supervised by a parent.
- Stay alert, and turn the trimmer off if a child or any other person enters the working area.
- Look behind and down for small children before and while cutting backwards.
- Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may obscure your view of a child who may run into the path of the hedger.

WARNING (PROPOSITION 65)










Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known 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 of exposure to these chemicals 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 dust masks that are specially designed to filter out microscopic particles.




SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
min	Minutes	Time
~	Alternating Current	Type of current
≡	Direct Current	Type or a characteristic of current
	No Load Speed	Rational speed, at no load
/min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute
	Wet Conditions Alert	Do not expose to rain or use in damp locations
	Read The Operator's Manual	To reduce the risk of injury user must read and understand operator's manual before using this product.
	Eye Protection	Wear eye protection when operating this equipment.
	Safety Alert	Precautions that involve your safety.
	Operate With Two Hands	Hold and operate the hedge trimmer properly with both hands
	Sharp Blade	Do not install or use any type of blade on a product displaying this symbol.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.
	Risk of Electrocution	DANGER! Risk of electrocution!

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

WARNING

To avoid serious personal injury, do not attempt to use this product until you have read this Owner's Manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this Owner's Manual, do not use this product. Call the Toll-free Helpline (1-888-909-6757) for assistance. The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before operating a power tool, always wear safety goggles, safety glasses with side shields, or a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection that is marked to comply with ANSI Z87.1.

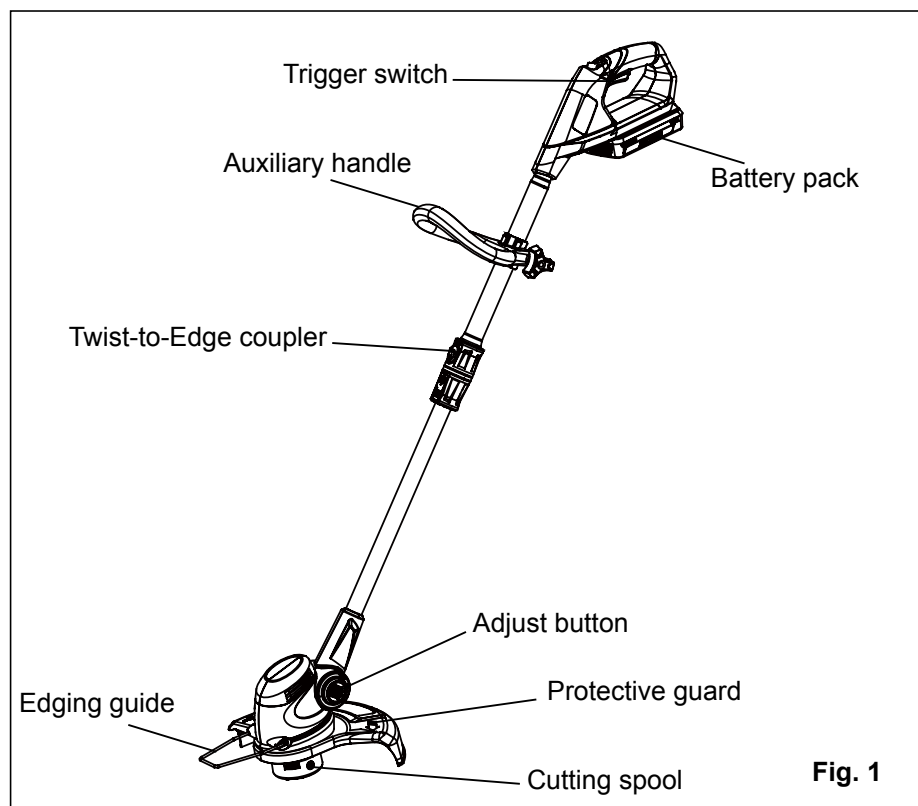
WARNING



The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

SAVE THESE INSTRUCTIONS

KNOW YOUR STRING TRIMMER



KNOW YOUR STRING TRIMMER (See *Figure 1*.)

The safe use of this product requires an understanding of the information on the product and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

ASSEMBLY INSTRUCTION

⚠ WARNING

To avoid injury and to reduce the risk of electrical shock or fire:

- Replace the battery pack or charger immediately if the battery case or charger cord is damaged.
- Always make sure the string trimmer switch is OFF before inserting or removing the battery pack.
- Always make sure the battery pack is removed and the switch turned OFF, before inspecting, adjusting, or maintaining any other part of the hedge trimmer.
- Read, understand, and follow the Battery Charger instructions.

GUARD (See Figure 2.)

To avoid injury, always remove the battery pack before installing the guard, changing a cutting line, or making any adjustments.

If the guard is damaged, do not use the grass trimmer/edger until it is replaced.

NOTE: Install the protective guard before operating the grass trimmer/edger. It cannot be removed or disassembled.

1. Remove the battery pack.
2. Invert the grass trimmer/edger to access the trimmer head.
3. Using a Phillips head screwdriver(not included), remove the pre-installed screw (1) from the trimmer head.
4. Place the guard (2) on to the trimmer head.
5. Align the screw hole on the guard with the screw hole on the trimmer head.
6. Insert the screw into the trimmer head, fastening the guard in place.

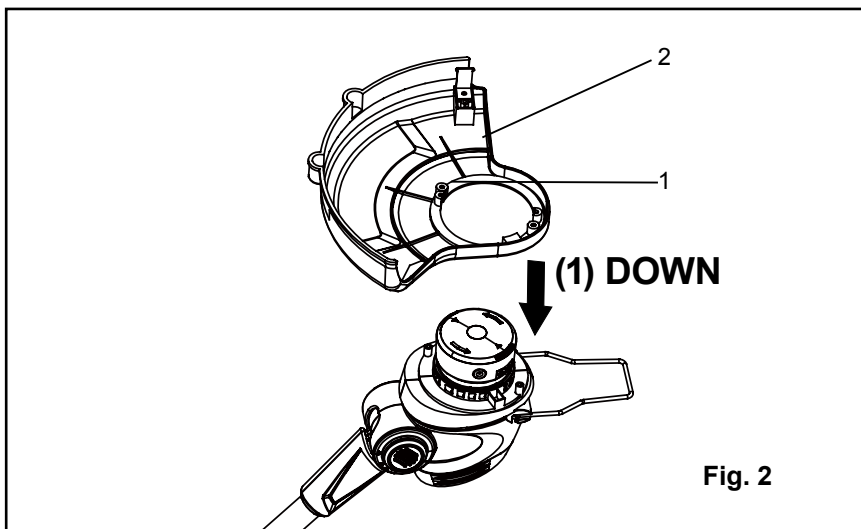


Fig. 2

ASSEMBLY INSTRUCTION

AUXILIARY HANDLE (See Figure 3.)

⚠ WARNING

To avoid injury, adjust the auxiliary handle for optimum control and balance. Do not overreach when operating grass trimmer/edger. Keep proper balance at all times for better control of the tool in unexpected situations.

1. Turn the auxiliary handle adjustment knob (1) counter-clockwise several turns to loosen the auxiliary handle (2).
2. Adjust the handle position to provide the best level of balance and control for the operator.
3. Securely lock the handle in position by turning the knob clockwise.
4. Before operating the grass trimmer/edger, make sure the auxiliary handle is tightly locked into position.

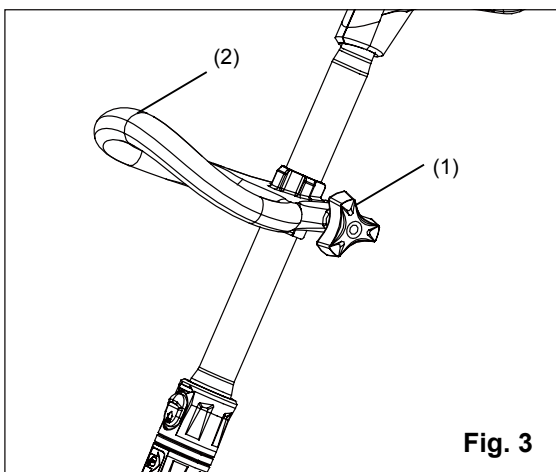


Fig. 3

CUTTING LINE (See Figure 4.)

A spool of monofilament cutting line is pre-installed on the grass trimmer/edger. When the cutting line needs replacing, insert a new spool.

To avoid injury, always remove the battery pack before installing the guard, changing a cutting line, or making any adjustments.

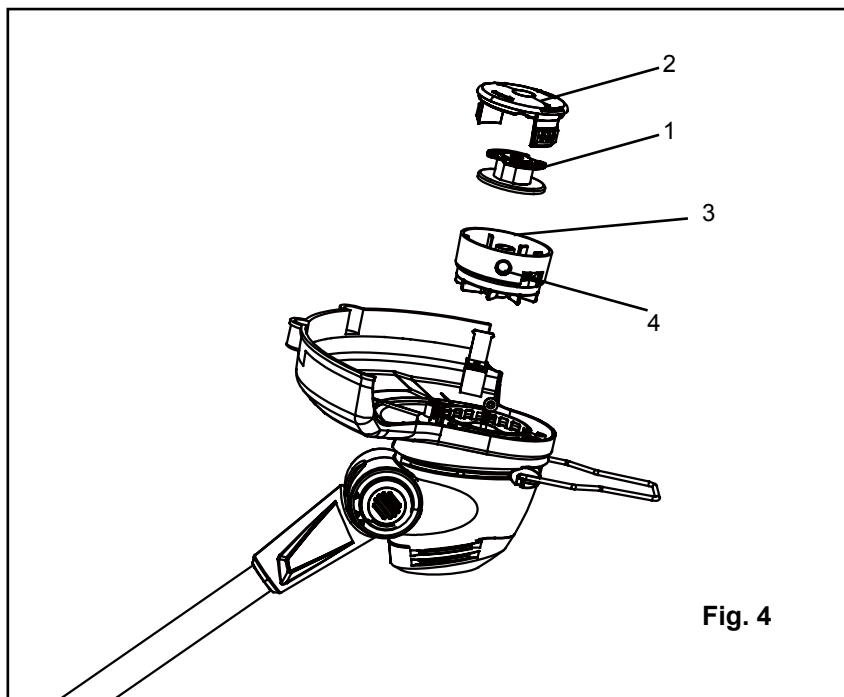
To remove the spool:

1. Disconnect the battery from the string trimmer.
2. Turn grass trimmer/edger over to access the spool.
3. Remove spool cover by pressing on two tabs parallel to each other on the side of the cover (2).
4. Remove the spool (1) from the spool housing (3).

ASSEMBLY INSTRUCTION

To replace the spool:

1. Replace the spool (1) with a new pre-wound spool.
2. Insert the end of line through the opening (4) in the spool housing (3).
3. Align the tabs on the spool cover (2) with the slots in the spool housing on the trimmer head.
4. Push down on the spool cover (2) locking it to the spool housing.
5. To advance the line when initially installed, you must pull the line while pressing the black line release button on the side of the spool housing (3).



ASSEMBLY INSTRUCTION

BATTERY

IMPORTANT! The battery pack is not charged when it is purchased. Before using the trimmer for the first time, place the battery pack in the battery charger and charge for 24 hours. Make sure to read all safety precautions, and follow the instructions in the Battery Charger section. With regular use, it will need shorter charging time. If storing for a prolonged period of time, remove the battery. When ready to use again, charge the battery pack for at least 24 hours again. Lithium-Ion batteries cannot develop a memory for usages and storage time.

To remove the battery (See Figure 5.) :

1. Slide the latch button on the battery pack down (1) and hold.
2. Grasp the trigger handle (2) firmly. Pull the battery pack out of the handle.

NOTE: The battery pack fits snugly into the handle to prevent accidental dislodging. It may require a strong pull to remove.

To install the battery (See Figure 5.):

1. Align the tongue (3) of the battery pack with the cavity in the handle housing.
2. Grasp the trigger handle (2) firmly and slide in until latch button clicks..

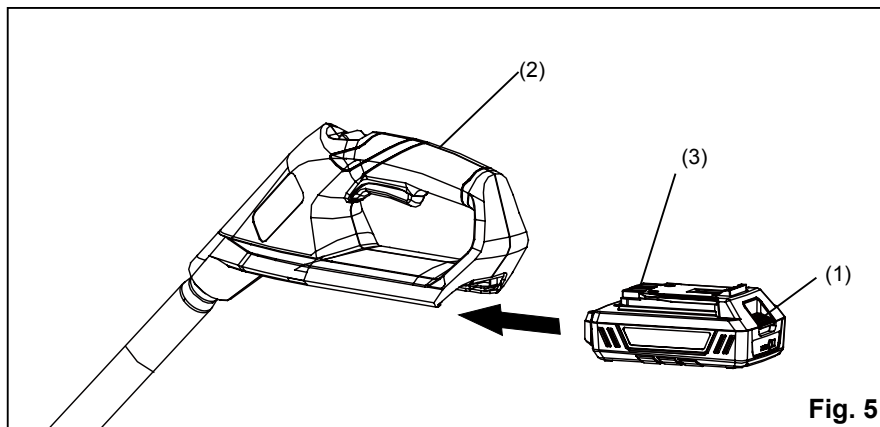


Fig. 5

⚠ WARNING

Follow these instructions in order to avoid injury and to reduce the risk of electric shock or fire:

- Replace the battery pack or the charger immediately if the battery case or charger cord is damaged.
 - Verify that the switch is in the OFF position before inserting or removing the battery pack.
 - Verify that the battery pack is removed and the switch is in the OFF position before inspecting, adjusting, or performing maintenance on any part of the string trimmer.
 - Read, understand, and follow the instructions contained in the section entitled Charging Procedure.
-

OPERATION

⚠ WARNING

To avoid injury:

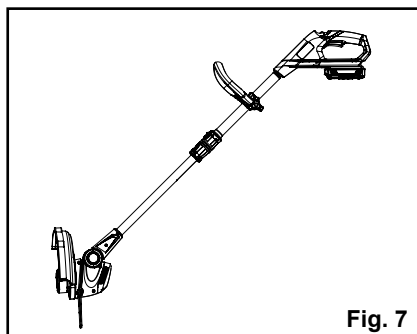
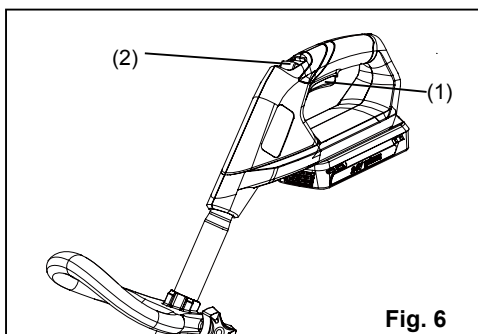
- Do not squeeze the trigger while the grass trimmer/edger is inverted.
- Do not carry the grass trimmer/edger with your finger on the switch. Avoid unintentional starting.

To Turn On/Off: (See Figure 6.)

1. Press the safety lock out button (2) and squeeze the trigger switch (1) to start.
2. Release the trigger switch (1) to stop.

⚠ CAUTION

Always allow 5 seconds or more for the cutting linespool to stop rotating after releasing the trigger switch. Do not invert the grass trimmer/edger, or place your hands under the protective guard until the grass trimmer/edger spool has come to a complete stop.



Edging Function (See Figure 7.)

For use next to patios, driveways and walkways or any areas requiring a well groomed edge line.

1. Push on the edge button and tilt the trimmer head 90 degrees until the head locks into position and release button.

IMPORTANT: The battery must be removed before making adjustments.

Lengthening the Line (See Figure 8.)

While the grass trimmer/edger is operating, the cutting line gets worn down and becomes shorter. This trimmer is equipped with Automatic Line Advancement which automatically feeds additional line to the correct length as it wears down. If the line does not automatically advance, the trimmer line may be tangled or empty. To advance the line, stop and restart the trimmer. Upon starting, the line will automatically advance 1/4" (6.4 mm).

OPERATION

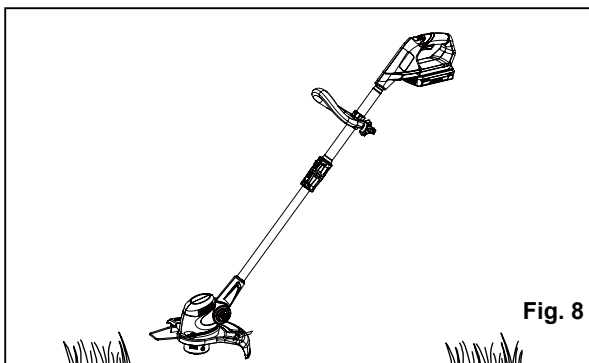


Fig. 8

Trimmer Tips

Before each use

- Make sure the protective guard is tightly installed. Tighten the guard screw.
- Make sure the battery is fully charged and that the charger is disconnected before using or storing the trimmer.
- Do not store the grass trimmer/edger in sunlight, in an excessively warm place, or near a furnace. The battery life will be shortened.
- If the battery must be stored in a warm place, charge it frequently.
- Before trimming, inspect the area for string, wire, branches or other material that may become entangled in the cutting line and thrown.

During use

- Trim only when the grass and weeds are dry.
- Do not trim grass at night. Always make sure you have adequate lighting.
- Hold the grass trimmer/edger by both the switch handle and the auxiliary handle for best control and balance.
- Stand with the cutting head tipped down at an angle in front, guiding the grass trimmer/edger in a semicircular motion around you.
- If possible, guide the grass trimmer/edger to the left to cut. The line will cut as soon as it leaves the guard, and the clippings are thrown away from you.
- To produce a smoothly trimmed area, move the grass trimmer/edger out of the area being cut with consistent speed and height.
- Use only the tip of the cutting line to do the trimming, especially near walls and fences. Trimming with the side of the cutting line may overload the motor, wear out the line faster, and break the line more often.
- Do not rest the trimmer spool on the ground while trimming. This will cause spool wear and battery drain.
- If the grass is higher than 6" (15 cm), trim in small stages.
- When the grass trimmer/edger is turned off and the spool stops rotating, the cutting line will relax and may recede. Feed extra cutting line before storing the trimmer to prevent losing the line completely into the spool.
- If the diameter of the cutting area gets smaller, the line is worn down and needs to be advanced more often.
- If the grass trimmer/edger is not cutting correctly, the cutting line may not be feeding properly. Remove and rewind the line spool.

MAINTANCE

WARNING

In order to avoid personal injury and the risk of fire and electric shock, remove the battery pack before adjusting, inspecting, or cleaning the string trimmer.

Cleaning

Remove the battery pack.

1. Brush or blow dust and debris out of the air vents using compressed air or a vacuum. Keep the air vents free of obstructions, sawdust, and wood chips. Do not spray, wash, or immerse the air vents in water.
2. Wipe off the housing and the plastic components using a moist, soft cloth. Do not use strong solvents or detergents on the plastic housing or plastic components. Certain household cleaners may cause damage, and may cause a shock hazard.

Battery Pack

- Store the battery pack fully charged.
- Recharge the battery pack whenever there is less power. Do not allow the battery pack to become completely discharged.
- Do not recharge a battery pack that is already fully charged. Overcharging shortens battery life.
- Once the charging light turns green, remove the battery from the charger and disconnect the charger from the outlet.
- Do not store the battery pack on the tool or in the charger.
- Recharge the battery at a temperature of between 32 and 104°F (0 and 40°C). If the battery pack is hot, allow it to cool down before recharging.
- After charging, the battery pack may be stored in the charger, as long as the charger is not plugged in.

Charger Maintenance

- Keep the charger clean and clear of debris. Do not allow foreign material to get into the recessed cavity or onto the contacts. Wipe the charger clean with a dry cloth. Do not use solvents or water, and do not place the charger in wet conditions.
- Unplug the charger when there is no battery pack in it.
- Fully charge the batteries before placing them in storage. Do not recharge a fully charged battery pack.
- Overcharging will shorten battery life.
- Recharge the battery pack whenever there is less power. Do not allow the batteries to become completely discharged.
- Store the charger at normal room temperature. Do not store it in excessive heat. Do not use the charger in direct sunlight. Recharge at room temperature between 50 and 104°F (10 and 40°C). If the battery pack is hot, allow it to cool down before recharging.

ENVIRONMENTALLY SAFE BATTERY DISPOSAL



The following toxic and corrosive materials are in the batteries used in this string trimmer battery pack: **Lithium, a toxic material.**

⚠ WARNING

All toxic materials must be disposed of in a specified manner to prevent contamination of the environment. Before disposing of damaged or worn out nickelcadmium battery packs, contact your local waste disposal agency, or the local Environmental Protection Agency for information and specific instructions. Take the batteries to a local recycling and/or disposal centre, certified for cadmium disposal.

⚠ WARNING

If the battery pack cracks or breaks, with or without leaks, do not recharge it and do not use. Dispose of it and replace with a new battery pack. **DO NOT ATTEMPT TO REPAIR IT!**

To avoid injury and risk of fire, explosion, or electric shock, and to avoid damage to the environment:

- Cover the battery's terminals with heavy-duty adhesive tape.
 - DO NOT attempt to remove or destroy any of the battery pack components.
 - DO NOT attempt to open the battery pack.
 - If a leak develops, the released electrolytes are corrosive and toxic. DO NOT get the solution in the eyes or on skin, and do not swallow it.
 - DO NOT place these batteries in your regular household trash.
 - DO NOT incinerate.
 - DO NOT place them where they will become part of any waste landfill or municipal solid waste stream.
 - Take them to a certified recycling or disposal centre.
-

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor fails to start when switch trigger is depressed.	Battery is not secure.	To secure the battery pack, make sure the latches on the top of the battery pack snap into place.
	Battery is not charged.	Charge the battery pack according to the instructions included with your model.
Unit will not start	Defective power switch	Return to place of purchase or return the unit to a repair center.

LIMITED FOUR-YEAR WARRANTY



GREENWORKS™ hereby warrants this product, to the original purchaser with **proof of purchase**, for a period of four (4) years against defects in materials, parts or workmanship. GREENWORKS™, at its own discretion will repair or replace any and all parts found to be defective, through normal use, free of charge to the customer. This warranty is valid only for units which have been used for personal use that have not been hired or rented for industrial/commercial use, and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

Battery and charger carries a two (2) year warranty against defects in workmanship and materials. Batteries must be charged in accordance with the operator's manuals directions and regulations in order to be valid.

ITEMS NOT COVERED BY WARRANTY:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration; or
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; or
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

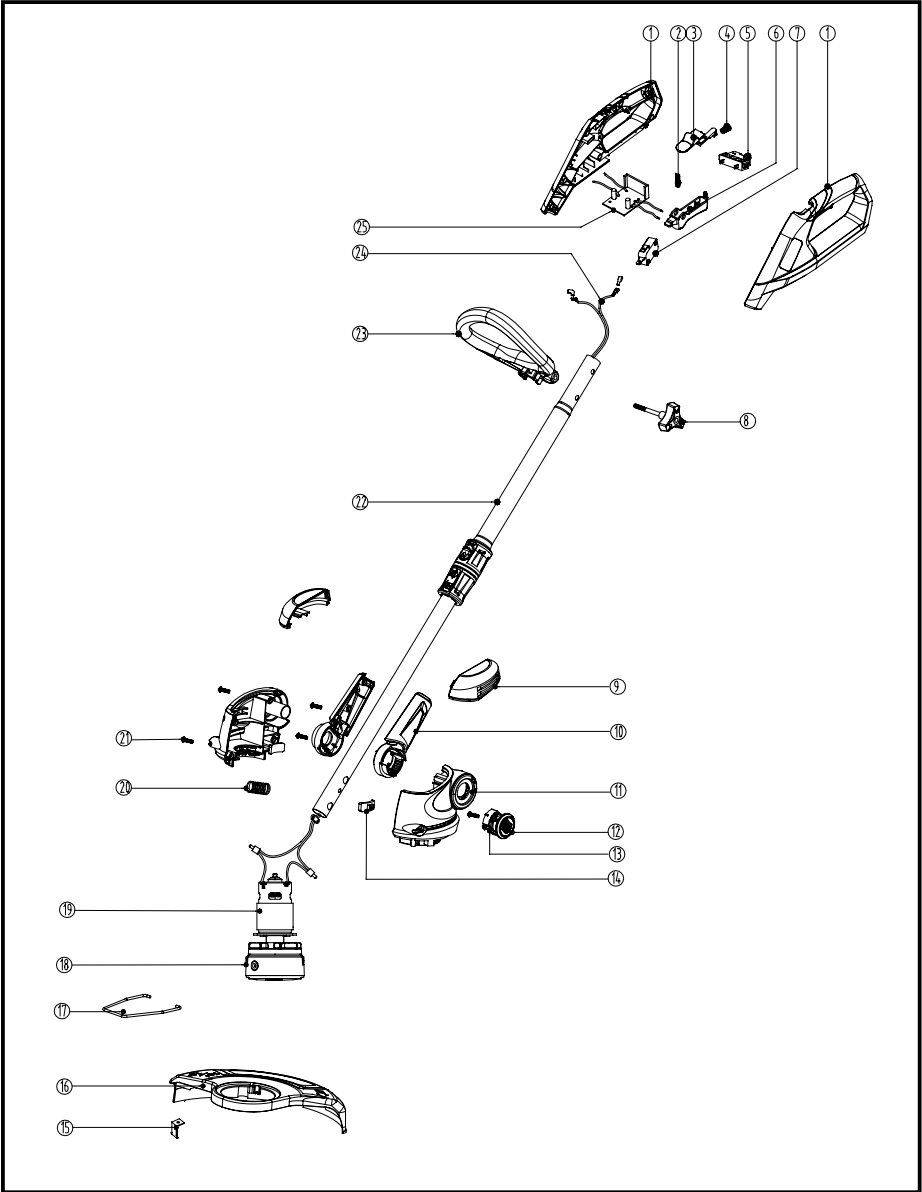
GREENWORKS HELPLINE (1 888 90WORKS):

Warranty service is available by calling our toll-free helpline, 9am to 5pm EST. Monday – Friday at **1-888-909-6757 (1-888-90WORKS)**.

TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by GREENWORKS.

EXPLODED VIEW



PARTS LIST

Parts Num.	Model Num.	Description	Qty
1	34101725A-2	Handle Assy (Left & Right)	1
2	36201730	20V Tool Control Plate 26R8003	1
3	36901868	Spring Line	1
4	34105185-4	Auxiliary handle	1
5	31102725-2	Pole Assy	1
6	3220313	ScrewST4×14-F	15
7	34101719	Turned Head Spring	1
8	36102334	Motor	1
9	31101725-2	Fan Assy	1
10	33301720	Steel Frame	1
11	34101719-1	Guard	1
12	33301865	Dual-direction Blade Frame	1
13	34200720	Motor Rubber Mat	1
14	34117186-4	Turned Head Button	1
15	34118186-5	Turned Head Button Lid	1
16	34101720A-1	Left & Right Housing	1
17	34103720-2	Turned Head Assy (Left & Right)	1
18	34102720-2	Left & Right Housing Cover	1
19	34101185-3	Auxiliary Handle Knob	1
20	36303152	Micro Switch	1
21	34102719-1	Switch Trigger	1
22	34103967	Insert Plate	1
23	33405505	Self-lock Spring	1
24	34104725-3	Self-lock Button	1
25	33401725	Switch Plate Spring	1

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TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)

Rev: 00 (01-12-13)



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