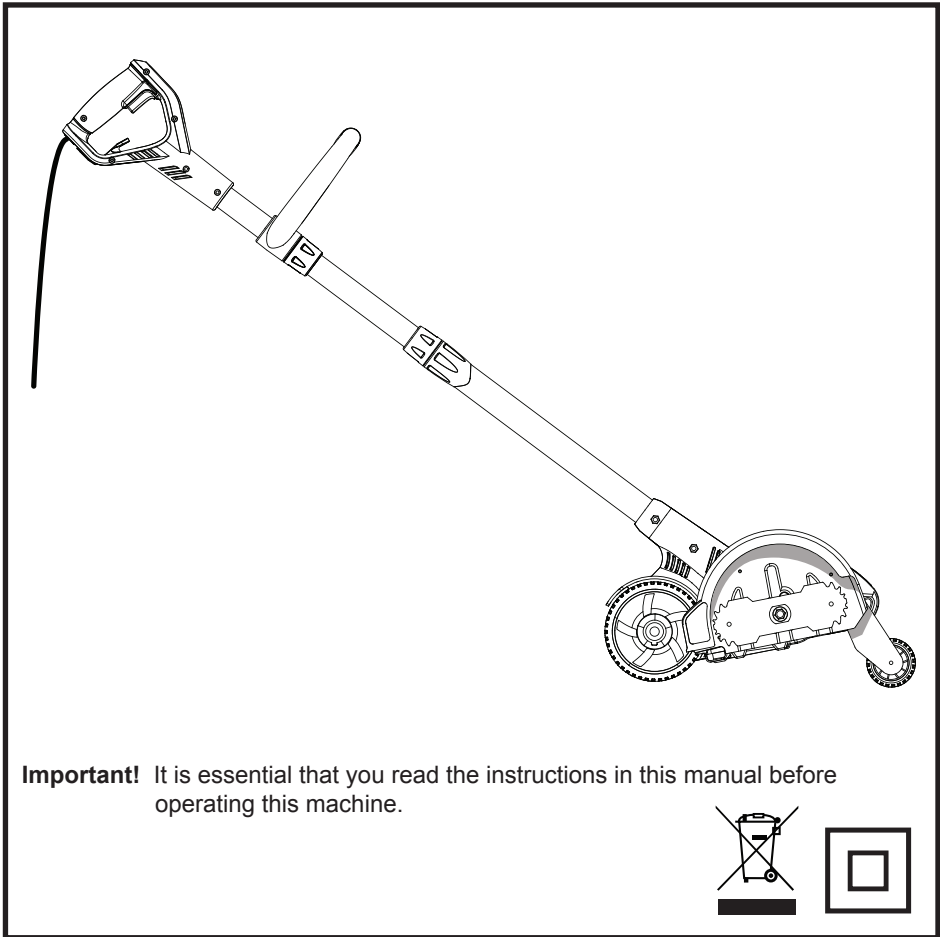




# RED1520G

## ELECTRIC EDGER

### OPERATOR'S MANUAL



**Important!** It is essential that you read the instructions in this manual before operating this machine.



Your edger has been engineered and manufactured to Ryobi's high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance. Thank you for your purchase.



## WARNING:

To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

## SAVE THIS MANUAL FOR FUTURE REFERENCE

## IMPORTANT SAFETY INSTRUCTIONS

When using your edger, follow basic precautions.



## WARNING:

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

## READ ALL INSTRUCTIONS

- Read the operators manual carefully. Be thoroughly familiar with the controls and the correct use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Do not allow children or untrained individuals to use this unit.
- Clear 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 edger blade.
- Wear safety glasses or goggles that are marked to comply with standards when operating this product.
- Dress properly - Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of sturdy gloves is recommended. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- Do not operate product when barefoot or wearing open sandals. Always wear safety footwear and pants or slacks that cover your legs.
- Never operate this unit on the operators left side.
- Keep all bystanders, children, and pets at least 15m away. Bystanders should be encouraged to wear eye protection. If you are approached, stop the motor and cutting attachment.
- Stay alert, watch what you are doing, and use common sense.
- Do not use product while tired or under the influence of drugs, alcohol, or medication.
- Do not operate in poor lighting.
- Follow instructions for the safe operation of the appliance, including a recommendation that the appliance should be supplied via a Residual Current Device (RCD) with a tripping current of not more than 30 mA.
- Before each use, check the supply and extension cord for signs of damage or aging. If the cord becomes damaged during use, disconnect the cord from the supply immediately. **DO NOT TOUCH THE CORD BEFORE DISCONNECTING THE SUPPLY.** Do not use the appliance if the cord is damaged or worn.
- Keep extension cord away from cutting elements.
- Never operate the edger with damaged guards or shields or without guards or shields in place.
- Always ensure that the ventilation openings are kept clear of debris.
- When not in use, store the edger out of the reach of children.
- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance or exposure to hot surfaces. Keep cutting attachment below waist level.
- Keep all parts of your body away from any moving part.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Beware of rotating cutting member.
- Keep both hands on handles when the blade is rotating.
- Keep hands and feet away from the cutting area.
- Do not attempt to remove cut material nor hold material to be cut when the motor is running or when the cutting member is moving.
- Make sure that the unit is unplugged when clearing jammed material from the cutting member.
- Keep guards in place.
- Keep blade clean and sharp. Replace dull blades as needed.
- **WARNING:** Cutting member coasts after turn off.
- Unplug from the power outlet before making any adjustments or repairs. Wear protective equipment and observe all safety instructions. When the unit is turned off, make sure the cutting attachment has stopped before setting the unit down.
- Inspect the unit before each use for loose fasteners. Replace any damaged parts before use.

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- Do not, under any circumstance, use any attachment or accessory on this product which was not provided with the product, or identified as appropriate for use with this product in this operator's manual.
- Avoid dangerous environments - Do not use the product in damp or wet locations.
- Do not use in the rain.
- If the product vibrates abnormally, immediately stop the motor and check for the cause. Vibration is generally a warning of trouble.
- Before cleaning, repairing, or inspecting, shut off the motor and make certain all moving parts have stopped.
- Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in injury to the user or damage to the product.
- Use only identical replacement parts when servicing the product. Use of unauthorized parts may create a risk of serious injury to the user, or damage to the product.
- Follow advice on the use and type of extension cords to be used (not lighter than ordinary tough rubber sheathed and ordinary polyvinyl chloride sheathed supply cord).
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do NOT expose product 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.
- When operating a power tool outdoors, use an outdoor extension cord.
- Store idle edger indoors - When not in use, store it in dry, and high or locked up place out of reach of children.
- Turn off all controls before unplugging.
- Do not use the tool if its switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Do not use with damaged plug. If the tool is not working as it should or has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.
- Do not leave the tool when plugged in. Unplug from the power outlet when not in use, before servicing, changing accessories, and before storing the tool. Such preventative safety measures reduce the risk of starting the tool accidentally.
- Do not abuse cord and do not pull or carry by cord, use cord as a handle, close a door on a cord, or pull cord around sharp edges or corners or yank to disconnect. Do not run appliance over the cord. Keep

cord away from heated surfaces.

- Do not unplug by pulling on the cord. To unplug, grasp the plug, not the cord.
- In a double insulated appliance, two systems of insulation are provided instead of grounding. No means for grounding should be added to the appliance. Servicing a double insulated appliance requires extreme care and knowledge of the system and should be done only by a qualified service personnel. Replacement parts for a double insulated appliance must be identical to the parts they replace.
- This appliance is intended for household use only.
- Ground Fault Circuit Interrupter (GFCI) - Protection should be provided on the circuit or outlet to be used for the edger. Receptacles built in with GFCI protection may be used for this measure of safety.
- Avoid unintentional starting - Do not carry plugged in edger with finger on switch. Make sure the switch is off when plugging in.
- Do not grasp the exposed cutting blades or cutting edges when picking up or holding the edger.
- Do not force the edger - It will do the job better and with a lower risk of injury at rate for which it was designed.
- Maintain the edger with care - Keep sharp cutting edge clean for best performance and to reduce the risk of injury. Follow instruction for lubricating and changing accessories. Inspect edger cord periodically. If damaged, have it repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keeps handles dry, clean, and free from oil and grease.
- Check damaged parts - Before further use of the edger, 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 alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that might effect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this manual.
- Do not use the edger for any job except that for which it is intended.

## SAVE THESE INSTRUCTIONS

### SPECIFIC SAFETY RULES






- Be sure all guards are properly and securely attached.
- Replace dull or worn blade.
- Do not attempt to sharpen blade. Failure to heed this warning could result in excessive vibration causing serious personal injury or property damage.

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- Use this edger for edging along sidewalks, driveways, and flower beds. Do not use for any other purpose.
- Do not use the edger on or near graveled surfaces.
- If the edger strikes any type of foreign object:
  - a) Stop the edger and disconnect from the power supply.
  - b) Inspect for any damage to the edger attachment.
  - c) Correct any damage before using the edger attachment. Failure to do so can cause serious injury.
- Make yourself familiar with the area you are edging. Be aware of uneven sidewalks and holes in the terrain as well as other similar hazardous conditions (example: wire or wire rope which can break off and become a dangerous projectile).
- Always push the edger attachment slowly over rough ground.
- Never direct discharge of material toward bystanders or allow anyone near the area of operation. Use care in directing discharge to avoid grass enclosures, automobiles, etc.
- Always stop the motor and disconnect from power supply before attempting to remove any obstruction caught or jammed in the blade, installing attachment, or making any adjustments.
- To reduce the risk of fire, do not allow excessive grass, leaves, or grease to accumulate on the product. Do not attempt to remove cut material nor hold material to be cut when the motor is running or when the cutting blade is moving.
- Always keep your right hand on the rear handle and your left hand on the front handle when the blade is rotating.
- Always beware of the power cord location and keep clear of the area you are working in. Cords may become a trip hazard to the operator. Cords that are in the cutting path may be cut by the edger.
- Never stand or have any part of your body in line with the path of the edger blade.
- A coasting blade can cause injury while it continues to spin after the motor is stopped or throttle trigger released. Maintain proper control until the blade has completely stopped rotating.
- Do not leave product unattended.
- If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service center.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also to prevent misuse of the product and possible injury.

## 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	Watt	Power
min	Revolutions or reciprocations per minute	Speed
	Alternating Current	Type of current
	Direct Current	Type or a characteristic of Current
	Class II construction	Double-insulated construction
	Wet Conditions Alert	Do not expose to rain or use in damp location.
	Electric Shock Precaution	Remove plug from the mains immediately if cable is damaged or cut.

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	Read the Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Keep Bystanders Away	Keep all bystanders at least 15m away.
	Wear Eye Protection	Always wear safety goggles or safety glasses with side shields and if necessary, a full face shield when operating this product.
	Long Hair	Failure to keep long hair away from the air inlet could result in personal injury.
	Loose Clothing	Failure to keep loose clothing from being drawn into air intake could result in personal injury.
	Sharp Blade	Danger – Keep hands and feet away from blade
	No Hands Symbol	Failure to keep your away from the blade will result in serious personal injury.
	Certificate Mark	Conforms to relevant standards for electromagnetic compatibility
	Do not expose to moisture	Do not use this tool in the rain. Avoid using it in damp conditions.

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

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

## SERVICE

Service 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 read thoroughly and understand completely the operator's manual. If you do not understand the warnings and instructions in the operator's manual, do not use this product. Call Ryobi customer service for assistance.

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## ELECTRICAL

### DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual three wire grounded power cord. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded.



#### WARNING:

The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal insulation. Observe all normal safety precautions to avoid electrical shock.

**NOTE:** Servicing of a product with double insulation requires extreme care and knowledge of the system 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. Always use original factory replacement parts when servicing.

### ELECTRICAL CONNECTION

This product has a precision-built electric motor. It should be connected to a power supply that is 240 volts, AC only (normal household current), 50 Hz. Do not operate this product on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the product does not operate when plugged into an outlet, double-check the power supply.

## FEATURES

### PRODUCT SPECIFICATIONS

Weight .....	6.57 kg
Input .....	230-240V a.c., 50Hz
Blade Length .....	200 mm
Rated power .....	1500W
No load speed .....	4200/min
Vibration:	
Main handle .....	ah:1.0m/s <sup>2</sup> , K:1.5m/s <sup>2</sup>
Auxiliary handle .....	ah:1.18m/s <sup>2</sup> , K:1.5m/s <sup>2</sup>
Measured Sound Pressure Level .....	LpA: 81.3dB(A)
Measured Sound Power Level .....	LWA: 95.6 dB(A)
Guaranteed Sound Power Level .....	LWA: 97 dB(A)

## DESCRIPTION

#### Fig.1

- 1.Switch trigger
- 2.Lock-off button
- 3.Adjustable front handle

- 4.Powerhead pole
- 5.Edger guard
- 6.Adjusting knob
- 7.Spring assist front wheel
- 8.Blade
- 9.CleanEdge™ blower
- 10.Wheels
- 11.Handle pole
- 12.Cord retainer
- 13.Rear handle

#### Fig.2

- 14.Collar
- 15.Cord
- 16.Collar

#### Fig.3

- 17.Cord retainer

#### Fig.5

- 18.Adjusting knob

#### Fig.7

- 19.Blade nut
- 20.Outer flange washer
- 21.Inner flange washer

#### Fig.8

- 22.Socket wrench 16mm and open end wrench 26mm  
(Tools not included)

### KNOW YOUR EDGER/ TRENCHER

See Figure 1.

The safe use of this product requires an understanding of information on the tool, and 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.

### CLEANEDGE™ BLOWER

The CleanEdge™ blower, at the base of the edger, is designed to blow debris from the blade area while edging paved surfaces.

### CORD RETAINER

A convenient cord retainer helps keep the extension cord connection secure during tool operation.

### FRONT HANDLE

For ease of operation, the edger is equipped with a front handle.

### LAWN EDGING AND TRENCHING

The edger blade can be adjusted to depths that allow for either lawn edging or for trenching.

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## LOCK-OFF BUTTON

The lock-off button reduces the possibility of accidental starting.

## SPRING ASSIST FRONT WHEEL

The spring assist front wheel allows the user to determine the depth of the edger blade.

## TELESCOPING SHAFT

The shaft can be adjusted to different lengths for ease of use.

## WHEELS

The front wheel and rear wheels are designed to fit snugly on top of curbs for improved edging.

## ASSEMBLY

### UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the product carefully to make sure no breakage damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.



#### WARNING:

If any parts are damaged or missing, do not operate this product until the parts are replaced. Failure to heed this warning could result in serious personal injury.



#### WARNING:

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.



#### WARNING:

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

## CONNECTING THE POLES

See Figure 2.

Before using the edger, a one-time assembly is required. When removed from the box, the two poles are connected by an electrical cord as shown on figure page.

- Remove packaging material from the cord and discard.

- Slide the handle pole into the lower powerhead pole end until you hear the button click. The tubes are egg-shaped and will only install one way.
- Lower the collar on the handle pole end to the threaded base on the power head pole end and rotate clockwise to secure.

**NOTE:** Handle pole and powerhead pole should not be able to separate from each other once assembled correctly. Repeat above steps if poles can be separated.



#### DANGER:

Failure to lock the powerhead pole as directed above could result in serious injury or death.

## OPERATION



#### WARNING:

Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.



#### WARNING:

Always wear safety goggles or safety glasses with side shields when operating power tools. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.



#### WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

## APPLICATIONS

You may use this product for the purpose listed below:

- Edging around walkways, driveways, curbs and flower beds.
- Trenching.

## CONNECTING TO POWER SUPPLY

See Figure 3.

This product is designed with a cord retainer that prevents the extension cord from being pulled loose.

- Form a loop with the end of the extension cord.
- Insert the loop portion of the extension cord through the opening at the bottom of the rear handle and place over cord retainer.
- Slowly pull the loop against the cord retainer until the slack is removed.
- Plug the product into the extension cord.

**NOTE:** Failure to remove all excess cord slack from the extension cord retainer could result in plug loosening from receptacle.

## STARTING AND STOPPING

See Figure 3

### To start the motor:

- Connect the edger to the power supply.
- Fully depress the lock-off button.
- Fully depress the switch trigger.
- Release the lock-off button.

### To stop the motor:

- Release the switch trigger.

## ADJUSTING THE TELESCOPING POLE

See Figure 4.

- Disconnect the edger from the power supply.
- Rotate the collar counterclockwise to loosen.
- Push poles towards each other to shorten the pole or pull away from each other to lengthen the pole.
- When the desired length is achieved, rotate the collar clockwise to secure.

**NOTE:** Adjust hand placement on the shaft of the edger to keep proper balance. Do not attempt to use the edger at a length which does not allow you to achieve proper footing and balance at all times.

## ADJUSTING THE DEPTH OF CUT

See Figure 5.

The depth of cut is determined by the distance from the bottom of the wheel to the tip of the blade.

### To adjust the blade depth:

- Stop the motor and unplug the edger.
- Loosen the adjusting knob and move the wheel up to increase the depth or down to decrease the depth.
- After adjustment is complete, tighten the adjusting knob securely.

**NOTE:** Adjust the blade depth from 1/2 in. to 1 in. deep initially. Make a shallow cut to test the cutting depth. If the cutting depth needs adjusting, this should be done progressively until the desired depth is reached. To increase blade life span, keep initial cutting depth at minimum and increase depth setting only as blade wears.

## USING THE EDGER

Hold the unit with your right hand on the rear handle and your left hand on the front handle. Keep a firm grip with both hands while in operation. The edger should be held at a comfortable position with the handle about hip height.

## OPERATING TIPS

- The edger will edge along sidewalks, driveways, flower beds and curbs.
- Cut at a steady pace. If the blade begins to bog down, you are edging too fast; slow your pace. Do not

force the blade into the ground.

- Light contact of the blade against the sidewalk edge, curb, etc., is acceptable and will not damage the edger.
- Best appearance is obtained when grass is dry. Avoid edging in wet soil or wet grass areas or the blade guard might clog and result in an uneven edge. If the blade guard becomes clogged, stop the motor, unplug the edger, wait for the blade to stop rotating, and remove debris from the blade guard.
- Attention ! Danger! - The cutting elements continue to rotate after the motor is switched off .

## MAINTENANCE



### WARNING:

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.



### WARNING:

Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.



### WARNING:

Before inspecting, cleaning or servicing the unit, stop the motor, wait for all moving parts to stop, and disconnect from power supply. Failure to follow these instructions can result in serious personal injury or property damage.

## GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.



### WARNING:

Do not at any time let brake fluids, gasoline, petroleum based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic, which may result in serious personal injury. Keep all nuts, bolts, and screws tight.

You can often make adjustments and repairs described here. For other repairs, have the product serviced by an authorized service dealer.



### WARNING:

Do not attempt to sharpen blade. Failure to heed this warning could result in serious personal injury or property damage.



## REPLACING THE BLADE

See Figures 7 - 8.

**NOTE:** Always ask for replacement blade model number AC 45E.

Replace blades that are damaged or worn. To increase blade life span, keep initial cutting depth at minimum and increase depth setting only as blade wears.

- Stop the motor and unplug the edger.
- Use a 26 mm wrench to hold the inner flange washer.
- Use a 16 mm socket wrench to turn the blade nut counterclockwise to loosen.
- Remove blade nut, outer flange washer, blade, and inner flange washer.
- Reinstall the inner flange washer onto the edger shaft.
- Center the new blade on the inner flange washer. Make sure the blade sits flat.
- Install the outer flange washer onto the edger shaft.
- Use a 26 mm wrench to hold the inner flange washer.
- Install the blade nut onto the edger shaft.
- Use a 16 mm socket wrench to turn the blade nut clockwise and tighten securely.

**NOTE:** Always make sure the blade is correctly installed and securely fastened before each use.

## STORING THE EDGER

- Depress telescoping shaft and adjust to the shortest setting.
- Remove all the foreign materials from the edger.
- Store it in a place that is inaccessible to children.
- Keep away from corrosive agents such as garden chemicals and de-icing salts.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor fails to start when switch trigger is depressed.	1. Power cord is not plugged in or connection is loose. 2. Household circuit breaker is tripped.	1. Plug in the power cord. 2. Check circuit breaker.

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