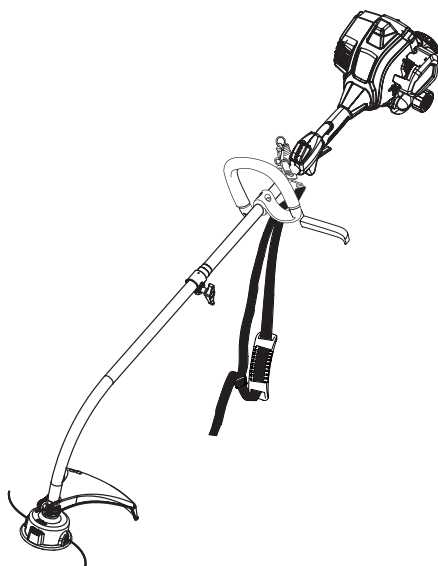


# **RYOBI®**

## **RLT254CSEON**

### **25.4CC GRASS TRIMMER**

#### **ORIGINAL INSTRUCTIONS**



















**Important!**

It is essential that you read the instructions in this manual before assembling, maintaining and operating this machine.















## English (Original Instructions)

### SYMBOLS




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

	Safety alert
	Read and understand all instructions before operating the product. Follow all warnings and safety instructions.
	Wear eye, hearing, and head protection when operating this product.
	Wear non-slip safety footwear when using the product.
	Wear non-slip, heavy-duty gloves.
	Beware of thrown or flying objects. Keep all bystanders, especially children and pets, at least 15 m away from the operating area
	The product is not intended for use with a toothed saw type blade.
	Do not use metal blade (s) on the product
	Rotational direction and maximum speed of the shaft for the cutting attachment.
	Use unleaded gasoline intended for motor vehicle use with an octane rating of 91 ([R+M]/2) or higher.
	Use full synthetic 2-stroke lubricant for air cooled engines.
	Mix the fuel mix thoroughly and also each time before refuelling.
	Keep hands away from blades.
	Run position
	Set the choke lever to "FULL" choke position.
	Set the choke lever to "HALF" choke position.

## English (Original Instructions)

	Press the primer bulb 10 times.
	Squeeze the throttle lock and throttle trigger to run.
	Wait 10 seconds.
	Pull: Quick release tab
	Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.
	Sound pressure level at idle
	Guaranteed sound power level
	When fitting the line spool to the cutting means, this symbol should be visible to the operator.
	Pull the starter grip.
	To reduce the risk of injury or damage, avoid contact with any hot surface.
	Starting a warm engine by electrical starter
	Starting a cold engine by electrical starter
	Starting a warm engine by hand
	Starting a cold engine by hand

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

SYMBOLS	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.

## English (Original Instructions)

Safety, performance, and dependability have been given top priority in the design of your grass trimmer.

### INTENDED USE

This grass trimmer is intended to be used only by adults who have read and understood the instructions and warnings in this manual and can be considered responsible for their actions. This product is only intended for use outdoors in a well ventilated area. For safety reasons, the product must be adequately controlled by using two-handed operation.

The grass trimmer is designed for cutting grass, light weeds, and other similar vegetation at or about ground level. The cutting plane should be approximately parallel to the ground surface.

The grass trimmer should not be used to cut or trim hedges, bushes, or other vegetation where the cutting plane is not or about ground surface level.



#### WARNING

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



#### WARNING

Do not attempt to operate the product until you have read thoroughly and understood completely all instructions and safety rules contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Save the operator's manual and review frequently for continuing safe operation, and instructing others who may use the product.



#### WARNING

The product is not intended to be used by children or persons with reduced physical, mental, or sensory capabilities. Children should be adequately supervised to ensure they do not play with the product.

### GENERAL SAFETY RULES

- For safe operation, read and understand all instructions before using the product. Follow all safety instructions. Failure to follow all safety instructions listed below, can result in serious personal injury.
- Some regions have regulations that restrict the use of the product. Check with your local authority for advice.
- Do not allow children or untrained individuals to use the product.
- Never start or run the engine in a closed or poorly ventilated area; breathing exhaust fumes can kill.
- 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 string head.

- Wear full eye and hearing protection while operating this product. If working in an area where there is a risk of falling objects, head protection must be worn.
- Hearing protection may restrict the operator's ability to hear warning sounds, pay particular attention to potential hazards around and inside the working area.
- Wear heavy long trousers, non-slip protective footwear and gloves. Do not wear loose fitting clothing, short trousers, jewellery of any kind, or use with bare feet.
- Secure long hair so it is above shoulder level to prevent entanglement in any moving parts.
- Keep all bystanders, children, and pets at least 15 m away. Stop the product if anyone enters the area.
- Do not operate this product when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting. The operator needs clear unrestricted vision to identify potential hazards.
- Keep firm footing and balance at all times. Do not overreach. Overreaching can result in loss of balance or exposure to hot surfaces.
- Keep all parts of your body away from any moving part.
- Do not touch area around the silencer or cylinder of the product, these parts get hot from operation.
- Always stop the engine and allow it to cool before making any adjustments.
- Do not smoke when mixing fuel or filling fuel tank.
- Mix and store fuel in a container approved for fuel.
- Mix fuel outdoors where there are no sparks or flames. Wipe up any fuel spillage. Move 9 m away from refueling site before starting engine.
- Stop the engine and allow to cool before refueling or storing the product.
- Allow the engine to cool; empty the fuel tank and secure the product from moving before transporting in a vehicle.
- Always stop the engine and make sure all moving parts have come to stop before:
  - servicing
  - leaving the product unattended
  - cleaning your product
  - changing accessories
  - clearing blockages
  - checking for any damage after hitting an object

## English (Original Instructions)

- checking for any damage if the product starts to vibrate abnormally
- performing maintenance



### WARNING

Never use cutting means or attachments which are not specified by Ryobi in this manual. This includes the use of metal multi-piece pivoting chains and flail-blades. These items are known to break up during use and present a high risk of serious injury to the operator or bystanders.



### WARNING

Inspection after dropping or other impacts: Thoroughly inspect the product and identify any problems or damage to it. Any part that is damaged should be properly repaired or replaced by an authorised service centre.

### TRIMMER SAFETY WARNINGS

- Replace the string head if cracked, chipped, or damaged in any way. Be sure the string head is properly installed and securely fastened. Failure to do so can cause serious injury.
- Avoid using on wet grass.
- Do not walk backwards when using the product.
- Walk, never run.
- The small blade fitted to the cutting attachment guard is designed to trim the new extended line to the correct length for safe and optimum performance. It is very sharp; do not touch it, particularly when cleaning the product.
- Always ensure that ventilation openings are kept clear of debris.
- Before use and after any impact, check that there are no damaged parts. Examine the cutting means for signs of cracking or other damage. A defective switch or any part that is damaged should be properly repaired or replaced by an authorised service facility.
- Make sure the head attachment is properly installed and securely fastened.
- Make sure all guards, deflectors, handles, bolts, and fasteners are properly and securely attached.
- Do not modify the product in any way. This may increase the risk of injury to yourself or others.
- Use only the manufacturer's replacement line in the cutting head. Do not use any other cutting attachment.
- Never operate product without the cutting attachment guard in place and in good condition.

- Maintain a firm grip on both handles while trimming. Keep string head below waist level. Never cut with the string head located over 76 cm or more above the ground.
- The grass trimmer is fitted with a harness. Carefully adjust the harness to fit comfortably and help to support the weight of the machine at your right side.
- Identify the Quick Release mechanism and practice using it before you start using the product. Its correct use may prevent serious injury in case of an emergency. Never wear additional clothing over the harness or otherwise restrict access to the quick release mechanism.

### TRANSPORTATION AND STORAGE

- Stop the engine, and allow it to cool before storing or transporting.
- Clean all foreign material from the product.
- Drain all fuel from tank into a container approved for petrol. Remember to properly replace and tighten the fuel cap.
- Run the engine until it stops, this will remove all fuel that could become stale and leave varnish and gum in the fuel system.
- Store the product in a cool dry and well-ventilated place that is inaccessible to children. Keep away from corrosive agents such as garden chemicals and deicing salts. Do not store outdoors.
- When transporting the product, secure it against movement or falling to prevent injury to persons or damage to the product.
- Never transport the product while the engine is running.
- Abide by all government and local regulations for the safety storage and handling of petrol.

### SHORT TERM

- Stop the engine, and allow it to cool before storing.
- Clean all foreign material from the product.
- Store the product in a cool dry and well-ventilated place that is inaccessible to children.
- Keep away from corrosive agents such as garden chemicals and deicing salts.
- Do not store outdoors.

## English (Original Instructions)

### RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise in use and the operator should pay special attention to avoid the following:

- Injury caused by vibration  
Always use the right tool for the job, use designated handles and restrict working time and exposure.
- Exposure to noise can cause hearing injury  
Wear ear protection and limit exposure.
- Eye injury due to flying debris  
Wear eye protection at all times.

### RISK REDUCTION

It has been reported that vibrations from handheld tools may contribute to a condition called Raynaud's Syndrome. Symptoms may include tingling, numbness, and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking, and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- Keep your body warm in cold weather. When operating the product, wear gloves to keep the hands and wrists warm.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.

If you experience any of the symptoms of this condition, immediately discontinue use and see your doctor.



#### WARNING

Injuries may be caused, or aggravated, by prolonged use of a tool. When using any tool for prolonged periods, ensure you take regular breaks.

### KNOW YOUR PRODUCT

1. Primer bulb
2. Choke lever
3. Fuel cap
4. Starter grip
5. Throttle lock
6. Ignition switch
7. Throttle trigger
8. Rear handle
9. Front handle
10. Shaft
11. Grass deflector

12. Reel Easy™ string head
13. Cutting line
14. Idle speed screw
15. Knob
16. Hanger cap
17. Clamp
18. Screw
19. Latch
20. Wrench
21. String head cover
22. Bump knob
23. Hex bolt
24. Spool
25. Spring
26. String head housing
27. Air box cover
28. Air filter
29. Combination wrench
30. Spark plug
31. Guide recess
32. Button
33. Metal spark plug boot
34. Rubber protect boot
35. Starter bit
36. Electrical starter
37. F/R switch
38. Starter bit shaft
39. Shaft hole on the engine
40. Switch button
41. Line exit holes
42. Cutting line
43. Drive shaft
44. Quick release tab
45. Pro Cut II™ string head
46. Spool retainer
47. Line load slots
48. Spark arrestor

### ASSEMBLY

#### UNPACKING

This product requires assembly.

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



#### WARNING

If any parts are damaged or missing, do not operate the product until the parts are replaced.

## English (Original Instructions)

Failure to heed this warning could result in serious personal injury.



### **WARNING**

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



### **WARNING**

To prevent accidental starting that could cause serious personal injury, always disconnect the engine spark plug wire from the spark plug when assembling parts.



### **WARNING**

Never attach or adjust any attachment while power head is running. Failure to stop the engine may cause serious personal injury.



### **WARNING**

Be certain the knob is fully tightened before operating equipment; check it periodically for tightness during use to avoid serious injury.

### **PACKING LIST**

- Trimmer
- Trimmer attachment shaft
- Front handle assembly
- Grass deflector
- Reel Easy™ string head
- Pro Cut II™ string head
- Shoulder strap
- Cutting line
- Combination wrench
- Manual
- Figure sheet
- Engine oil
- Wrench

### **ATTACHING THE FRONT HANDLE**

See Fig. 2a

- Remove the securing screws and clamp from the front handle.
- Align the hooks on the clamp into upper shaft slot.
- Install the front handle onto the upper shaft.

**NOTE:** The front handle should tilt slightly towards the operator when correctly fitted.

- Place the securing screws through the front handle and securely tighten them into the captive nuts on the front handle.

**NOTE:** Do not attempt to remove the locks on the clamp, the locks limit the upper position of the front handle

### **ATTACHING THE GRASS DEFLECTOR**

See Fig. 2b

- Stop the engine.
- Loosen the lock nut.
- Insert the shaft into the grass deflector.
- Tighten the lock nut.

### **ATTACHING THE POWER HEAD TO TRIMMER ATTACHMENT**

See Fig. 2c



### **WARNING**

Never attach or adjust any attachment while power head is running. Failure to stop the engine may cause serious personal injury.

- Stop the engine.
- The trimmer attachment connects to the power head by means of a coupler device.
- Loosen the knob on the coupler of the power head shaft and remove the end cap from the attachment.
- Push in the button located on the attachment shaft.
- Align the button with the guide recess on the power head coupler and slide the two shafts together.
- Rotate the attachment shaft until the button locks into the positioning hole.

**NOTE:** If the button does not release completely in the positioning hole, the shafts are not locked into place. Slightly rotate from side to side until the button is locked into place.

- Tighten the knob securely.

### **REMOVING THE ATTACHMENT FROM THE POWER HEAD**

- Loosen the knob.
- Push in the button and twist the shafts to remove and separate the ends.

### **INSTALLING THE REEL EASY™ STRING HEAD**

See Fig. 2d

- Stop the engine.
- Open the Reel Easy™ string head by depressing the latches on each side. The contents of the string head are spring loaded, so keep your other hand over the string head cover while depressing the latches.

## English (Original Instructions)

- Remove the string head cover, bump knob, bolt, spool, and spring then set aside.
- Place the string head housing on the drive shaft. Make sure the string head housing is fully seated.
- Place the hex bolt into the drive connector. Using the bump knob to turn the hex bolt clockwise and tighten securely.

**NOTE:** Only use the bump knob to tighten the bolt. The use of other tools may allow over tightening of the bolt, which could damage the grass trimmer head.

- Reinstall the spring into the string head and push down to seat.
- Reinstall the spool. Make sure the symbol "for curved shaft" is visible.
- Replace the bump knob in the spool.
- Replace the string head cover, aligning latches with openings in the string head. Press string head cover and string head housing together until both latches snap into openings securely.
- Install line as described in the Line Replacement section of this manual.

### INSTALLING THE PRO CUT II™ HEAD TO THE GRASS TRIMMER

See Fig. 2e

- Stop the engine.
- Remove the installed string head.
- Install the Pro Cut II string head on the drive shaft until fully seated.
- Install the spool retainer and turn clockwise
- Install cutting line as described in the next section in this manual.

### INSTALLING THE LINE IN THE PRO CUT II™ HEAD

- Use monofilament line diameter 2.7 mm. Use original manufacturers replacement line for best performance. 2.4 mm Line is not compatible with the Pro Cut head. For the head to secure the line safely 2.7 mm line must be used.
- Stop the engine.
- Remove old line by pulling it from the holes located on the top of the line head.
- Gather two of the pre-cut lengths of trimmer line provided or cut two pieces of trimmer line (in 28 cm lengths).

- Insert the line into the load slots located on the sides of the line head. Line should be pushed in until approximately 2 cm protrudes from the holes on the top of the line head.
- Pull the lines from the load slots located on the sides of the line head until it reaches the cut off blade on grass deflector before operating the product.

### ATTACHING THE SHOULDER STRAP

See Fig. 2f

**NOTE:** Always use the shoulder strap with your trimmer.

- Connect the latch on the strap to the strap hanger.
- Adjust the strap to a comfortable position.

**NOTE:** To quickly release the product from the shoulder strap, sharply pull the quick release tab.

## OPERATION

### FUEL AND REFUELING

#### HANDLING THE FUEL SAFELY

- Always handle fuel with care, it is highly flammable.
- Always refuel outdoors where there are no sparks and flames. Do not inhale fuel vapors. Do not smoke.
- Do not let petrol or lubricant come in contact with your skin.
- Keep petrol and lubricant away from the eyes. If petrol or lubricant comes in contact with the eyes, wash them immediately with clean water. If irritation is still present, see a doctor immediately.
- Clean up spilled petrol immediately.
- Always transport and store fuel in a container approved for petrol.

### MIXING THE FUEL

See Fig. 3

- The product is powered by a 2-stroke engine and requires pre-mixing petrol and 2-stroke lubricant. Pre-mix unleaded petrol and 2-stroke engine lubricant in a clean container approved for petrol.
- This engine is certified to operate on unleaded petrol intended for automotive use with an octane rating of 91 ([R + M] / 2) or higher.
- Do not use any type of pre-mixed petrol / lubricant from fuel service stations, this includes the pre-mixed petrol / lubricant intended for use in mopeds, motorcycles, etc.
- Use full synthetic 2-stroke lubricant only. Do not use



## English (Original Instructions)

automotive lubricant or 2-stroke outboard lubricant.

- Mix 2% full synthetic 2-stroke lubricant into the petrol. This is a 50:1 ratio.
- Mix the fuel thoroughly and also each time before fueling.
- Mix in small quantities. Do not mix quantities larger than usable in a 30 day period. Full synthetic 2-stroke lubricant containing a fuel stabilizer is recommended.



1 Litre	+	20 ml	=	50:1 (2%)
2 Litres	+	40 ml	=	50:1 (2%)
3 Litres	+	60 ml	=	50:1 (2%)
4 Litres	+	80 ml	=	50:1 (2%)
5 Litres	+	100 ml	=	50:1 (2%)

### FILLING THE TANK



#### WARNING

Check for fuel leaks. If any are found, correct them before using the product to prevent fire or burn injury.

- Stop the engine.
- Clean surface around fuel cap to prevent contamination.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Carefully pour fuel mixture into the tank. Avoid spillage.
- Prior to replacing the fuel cap, clean and inspect the gasket.
- Immediately replace fuel cap and hand tighten. Wipe up any fuel spillage. Move 9 m away from refueling site before starting engine.

**Note:** It is normal for smoke to be emitted from a new engine during and after first use.



#### WARNING

Always shut off engine before fueling. Never add fuel to a machine with a running or hot engine. Move at least 9 m from refueling site before starting engine. Do not smoke!

### STARTING AND STOPPING



#### WARNING

Never start or run the engine inside a closed or poorly ventilated area; breathing exhaust fumes can kill.

#### TO START A COLD ENGINE:

See Fig. 4a

**NOTE:** Lay the product on the ground. Ensure the cutting means will not contact anything when it starts to rotate.

1. Press the primer bulb 10 times.  
**NOTE:** After the 7th press, the fuel should be visible in the primer bulb. If not, continue pressing until the fuel is visible.
2. Set the choke lever to choke position.
3. Hold down the throttle lock and then squeeze the throttle trigger completely and pull the starter grip until the engine attempts to start. Do not pull the starter grip more than 4 times. Keep the throttle trigger squeezed completely through steps 3 to 7.
4. Set the choke lever to choke position.
5. Pull the starter grip until the engine starts. Do not pull the starter grip more than 6 times.  
**NOTE:** If the engine does not start, repeat the procedure from step 2.
6. Allow the engine to run for 10 seconds.
7. Set the choke lever to position.

#### TO START A WARM ENGINE:

See Fig. 4b

**NOTE:** Lay the product on the ground. Ensure the cutting means will not contact anything when it starts to rotate.

1. Press the primer bulb 10 times.
2. Set the choke lever to choke position.
3. Hold down the throttle lock and then squeeze the throttle trigger completely and pull the starter grip until the engine starts. Do not pull the starter grip more than 6 times.

### STARTING THE ENGINE USING AN ELECTRICAL STARTER (OPTIONAL)



#### WARNING

Only use the Ryobi OES18 electrical starter. Use of any other starter may damage the engine and cause serious personal injury.



#### WARNING

Before using the electrical starter to start the product, please read and understand completely

## English (Original Instructions)


the operation manual of the OES18 electrical starter to avoid improper operation and serious personal injury.

### TO START A COLD ENGINE BY ELECTRICAL STARTER


See Fig. 4c

1. Install the starter bit into the electrical starter with the pentagon bit facing outside.
2. Push the F/R switch to the left until the pentagon symbol shows on the F/R switch.
3. Lay the product on the ground and make sure that the cutting means do not come in contact with anything.
4. Press the primer bulb 10 times.


**NOTE:** After the 7th press, the fuel should be visible in the primer bulb. If not, continue pressing until the fuel is visible.

5. Set the choke lever to  position.
6. Hold down the throttle lock and then squeeze the throttle trigger completely with your left hand and keep the throttle trigger squeezed completely through steps 6 to 12.
7. Use your right hand to put the starter bit shaft to the shaft hole on the engine. Make sure the starter bit is properly engaged.

**NOTE:** The electrical starter is equipped with a safety interlock. Do not press and hold on the switch button when putting the electrical starter shaft into the shaft hole on the engine, otherwise the starter will not turn. The starter will not turn if the electrical starter is not properly engaged.

8. Press and hold the electrical starter switch button until the engine attempts to start. Do not press the electrical starter for more than 4 seconds.
9. Set the choke lever to  choke position.
10. Press and hold the electrical starter switch button until the engine starts.


**NOTE:** If the engine does not start, repeat the procedure from step 5. Do not repeat the procedure more than 1 time. If the engine does not start after the second attempt, see the solution instruction for the "Flooded engine" in the "Troubleshooting" section of this manual.

11. Allow the engine to warm up for 10 seconds.
12. Set the choke level to  choke position.

### TO START A WARM ENGINE BY ELECTRICAL STARTER

See Fig. 4d

1. Install the starter bit into the electrical starter with the pentagon bit facing outside.
2. Push the F/R switch to the left until the pentagon symbol shows on the F/R switch.

3. Lay the product on the ground and make sure that the cutting means do not come in contact with anything.
4. Press the primer bulb 10 times.
5. Set the choke lever to  position.
6. Hold down the throttle lock and then squeeze the throttle trigger completely with your left hand and keep the throttle trigger squeezed completely. Use the right hand to put the electrical starter shaft into the shaft hole on the engine. Make sure the starter is properly engaged.
7. Press and hold the electrical starter switch button until the engine starts.

**NOTE:** If the engine does not start, repeat the procedure from step 5. Do not repeat the procedure more than 1 time. If the engine does not start after the second attempt, see the solution instruction for the "Flooded engine" in the "Troubleshooting" section of this manual.

### TO STOP THE ENGINE (FIG 2D STEP 1)

- Place the switch to the "O" (off) position.

### OPERATING THE TRIMMER

See Fig. 5

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

Always operate the product at full throttle. Cut tall grass from the top down. This will prevent grass from wrapping around the shaft housing and bump head which may cause damage from overheating. If grass becomes wrapped around the bump head, stop the engine, disconnect the spark plug wire, and remove the grass. Prolonged cutting at partial throttle will result in lubricant dripping from the silencer.

### CUTTING TIPS

See Fig. 6

- Avoid hot surfaces by always keeping the tool away from your body. (Proper operating position shown in figure 5.)
- Keep the product tilted toward the area being cut; this is the best cutting area.
- The product cuts when passing the product from right to left. This will avoid throwing debris at the operator. Avoid cutting in the dangerous area shown in illustration.
- Use the tip of string to do the cutting; do not force string head into uncut grass.

## English (Original Instructions)

- Wire and picket fences cause extra line wear, even breakage.
- Stone and brick walls, curbs, and wood may wear line rapidly.
- Avoid trees and shrubs. Tree bark, wood mouldings, siding, and fence posts can easily be damaged by the string.

### ADVANCING THE LINE

See Fig. 7

For Reel Easy™ String Head Only

Line advance is controlled by tapping the string head on grass while running engine at full throttle.

- Run engine at full throttle.
- Tap the knob on ground to advance string. The string advances each time the knob is tapped. **Do not hold the knob on the ground.**

**NOTE:** The line trimming cut-off blade on the grass deflector will cut the line to the correct length.

**NOTE:** If the string is worn too short you may not be able to advance the string by tapping it on the ground. If so, stop the engine, and manually advance the string.

### TO ADVANCE THE CUTTING LINE MANUALLY:

- Stop the engine.
- Push the knob in while pulling on string(s) to manually advance the line.

### MAINTENANCE



#### WARNING

Use only original manufacturer's replacement parts, accessories, and attachments. Failure to do so can cause possible injury, poor performance and may void your warranty.

- Always stop the engine and allow it cool before making any maintenance.
- You may make adjustments and repairs described here. For other repairs, contact the authorised service agent.
- Consequences of improper maintenance may include excess carbon deposits resulting in loss of performance and discharge of black lubricant residue dripping from the silencer.
- For replacement line, use only nylon filament line of the diameter described in the specification table of this manual.
- After extending the new cutter line, always return the product to its normal operation position before starting.

- The cutting attachment must not work in idle mode. If this requirement is not satisfied, the clutch has to be adjusted or the product needs an urgent maintenance by a qualified technician.
- After each use, clean the product with a soft dry cloth.
- Check all nuts, bolts, and screws at frequent intervals for proper tightness to ensure the product is in safe working condition. Any part that is damaged should be properly repaired or replaced by an authorised service centre.

### LINE REPLACEMENT FOR REEL EASY™ STRING HEAD

See Fig. 8

- Ensure the product is in the off position.
- Use a 2.4 mm diameter monofilament string.
- Stop the engine.
- Cut one piece of string approximately 6 m in length.
- Rotate the knob on the string head until the line on the knob aligns with the arrows on the top of string head.
- Insert one end of the string into the eyelet located on the side of the string head and push until string comes out through eyelet on the other side.
- Continue to push string through the string head until the middle section of the string is inside the string head and string outside the string head is evenly divided on each side.
- Rotate the knob on the string head to wind the line.
- Wind the string until approximately 20 cm remains protruding from the string head.

### CLEANING THE EXHAUST PORT AND SILENCER

Depending on the type of fuel used, the type and amount of lubricant used, and/or your operating conditions, the exhaust port and silencer may become blocked with carbon deposits. If you notice a power loss with your petrol powered tool, a qualified service technician will need to remove these deposits to restore performance.

### SPARK ARRESTOR

See Fig. 12

The spark arrestor must be cleaned or replaced every 25 hours to ensure proper performance of your product.

- Stop the engine.
- Locate the spark arrestor through the hole on the muffler exit hole.

## English (Original Instructions)

- Remove the spark arrestor using needle-nosed pliers.
- Clean the spark arrestor with a small wire brush.
- Replace the spark arrestor.

### CLEANING THE AIR FILTER

See Fig. 9

For proper performance and longer life, keep the air filter clean.

- Ensure the product is in the off position.
- Remove the air filter cover.
- Remove the air filter and clean it with warm soapy water.
- Rinse, and let the air filter dry completely.
- Work two drops of lubricant into the air filter.
- Replace the air filter (fits only one way).
- Replace the air filter cover.

**NOTE:** The air filter should be replaced annually for the best performance.

### FUEL CAP



#### WARNING

A leaking fuel cap is a fire hazard and must be replaced immediately.

A fuel cap contains a non-serviceable filter and a check valve. A clogged fuel filter will cause poor engine performance. If performance improves when the fuel cap is loosened, check valve maybe faulty or filter clogged.

### SPARK PLUG REPLACEMENT

See Fig. 10



#### WARNING

The material of the spark plug is metal. It becomes very hot after you stop the engine. Wait the engine to cool down before you disassemble the metal spark plug boot to avoid personal injury.

**NOTE:** The engine uses a Champion RCJ6Y spark plug or equivalent with 0.63 mm electrode gap. Use an exact replacement and replace the spark plug annually.

1. Stop the engine.
2. Hold the front portion of the rubber protect boot and pull it away from the housing.
3. Pull the rubber protect boot upward to release the hook.
4. Twist the metal spark plug boot and pull it away from

the spark plug.

5. Using a combination wrench, loosen the spark plug by turning it in a counterclockwise direction. Remove the old spark plug and replace with a new one. Tighten it in a clockwise direction using the combination wrench, recommended torque is 23.5 Nm. Assemble back the metal spark plug boot and the rubber protect boot.

### ATTACHING THE HANGER CAP

See Fig. 11

To use the hanger cap, push in the button and place the hanger cap over the lower end of the attachment. Slightly rotate the cap from side to side until the button locks into place.

**NOTE:** The secondary hole in the attachment shaft can be used for hanging purposes as well.

### STORAGE (1 MONTH OR LONGER)

- Drain all fuel from tank into a container approved for fuel. Run engine until it stops.
- Clean all foreign material from the product. Store it in a well-ventilated place that is inaccessible to children. Keep away from corrosive agents such as garden chemicals and de-icing salts.
- Abide by all ISO and local regulations for the safe storage and handling of fuel. Excess fuel should be used up in other 2-stroke engine powered equipment.

## English (Original Instructions)

### TROUBLESHOOTING

IF THESE SOLUTIONS DO NOT SOLVE THE PROBLEM, CONTACT YOUR AUTHORISED SERVICE DEALER.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not start.	<ol style="list-style-type: none"> <li>1. No spark.</li> <li>2. No fuel.</li> <li>3. Engine is flooded.</li> <li>4. Starter rope now harder to pull than when new.</li> <li>5. Old fuel</li> </ol>	<ol style="list-style-type: none"> <li>1. The spark plug may be damaged, remove it and check for dirt and cracks. Replace with a new spark plug.</li> <li>2. Push primer bulb until bulb is full of fuel. If bulb does not fill, primary fuel delivery system is blocked. Contact a servicing dealer. If primer bulb fills, engine may be flooded, proceed to next item.</li> <li>3. Remove spark plug, turn unit so spark plug hole is aimed at the ground. Rotate the choke dial to "F" position and pull starter cord 10 to 15 times. This will clear excess fuel from engine. Remove any fuel which splashed on the product. Clean and reinstall spark plug. Clean up any spilled fuel and move at least 9m away before restarting. Pull starter three times with choke dial at "F". If engine does not start, rotate choke dial to "H" position and repeat normal starting procedure. If engine still fails to start, repeat procedure with a new spark plug.</li> <li>4. Contact a servicing dealer.</li> <li>5. Only use fresh fuel mixed with recommended oil. Fuel over 30 days old may prevent the unit from starting.</li> </ol>
Engine starts but will not accelerate.	Engine requires approximately three minutes to warm up.	Allow engine to completely warm up. If engine does not accelerate after three minutes, contact a servicing dealer.
Engine starts but will only run at high speed at half choke.	Carburetor requires adjustment.	Contact a servicing dealer.
Engine does not reach full speed and emits excessive smoke.	<ol style="list-style-type: none"> <li>1. Check lubricant fuel mixture.</li> <li>2. Air filter is dirty.</li> <li>3. Spark arrestor screen is dirty.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use fresh fuel and the correct 2-stroke lubricant mix.</li> <li>2. Clean air filter. Refer to <b>Cleaning the Air Filter</b> earlier in this manual.</li> <li>3. Contact a servicing dealer.</li> </ol>

## English (Original Instructions)

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine starts, runs, and accelerates but will not idle.	Idle speed screw on carburetor requires adjustment	Contact a servicing dealer.
Line will not advance.	1. Line welded to itself.	1. Lubricate with silicone spray.
	2. Not enough line on spool.	2. Install more line. Refer to "Line Replacement" earlier in this manual.
	3. Line worn too short.	3. Pull lines while alternately pressing down on and releasing bump head.
	4. Line tangled on spool.	4. Remove line from spool and rewind. Refer to "Line Replacement" earlier in this manual.
	5. Engine speed too slow.	5. Advance line at full throttle.
Grass wraps round shaft housing and bump head	1. Cutting tall grass at ground level.	1. Cut tall grass from the top down.
	2. Operating the product at part throttle	2. Operate the product at full throttle.
Bump knob hard to turn.	Screw threads dirty or damage.	Clean threads and lubricate with grease - if no improvement, replace bump knob.
Lubricant drips from muffler.	1. Operating the product at part throttle.	1. Operate the product at full throttle.
	2. Check lubricant/fuel mixture.	2. Use fresh fuel and correct synthetic 2-stroke lubricant mix.
	3. Air filter dirty.	3. Clean per instruction in "Maintenance" section.

## English (Original Instructions)

### SPECIFICATION

Grass Trimmer	RLT254CSEON
Weight	
- Without fuel, cutting attachment and harness	5.02 kg
- Without fuel and harness, with string trimmer head	5.33 kg
Fuel tank volume	620 cm <sup>3</sup>
Cutting swath	432 mm
Engine displacement	25.4 cm <sup>3</sup> cc
Line diameter for Reel Easy™ string head	2.4 mm
Line diameter for Pro-Cut II string head	2.7 mm
Maximum engine performance (in accordance with ISO 8893)	0.85 kW
Maximum rotational frequency of the spindle	12,000 min <sup>-1</sup>
Engine speed (rotational frequency) at idle	2,600-3,400 min <sup>-1</sup>
Fuel consumption (in accordance with ISO 8893) at max. engine performance	0.46 kg/h
Specific fuel consumption (in accordance with ISO 8893) at max. engine performance	0.54 kg/kwh
Vibration (in accordance with ISO 22867):	
Front handle	
- Idling	3.7 m/s <sup>2</sup>
- Racing	8.6 m/s <sup>2</sup>
- Equivalent vibration total value	6.6 m/s <sup>2</sup>
Rear handle	
- Idling	3.6 m/s <sup>2</sup>
- Racing	9.7 m/s <sup>2</sup>
- Equivalent vibration total value	7.3 m/s <sup>2</sup>
Uncertainty	1.5 m/s <sup>2</sup>
Noise emission (in accordance with ISO 22868)	
A-weighted emission sound pressure level at the operator position	

- Idling	71.7 dB (A)
- Racing	100.3 dB (A)
- Equivalent A-weight emission sound pressure level	97.3 dB (A)
Uncertainty	2.5 dB
A-weighted emission sound power level	
- Idling	84.6 dB (A)
- Racing	112.0 dB (A)
- Equivalent A-weight sound power level	112.0 dB (A)
Uncertainty	2.5 dB

### REPLACEMENT PARTS

Part	Part number
Reel Easy™ string head with cutting line	LTA-042
Pro Cut II™ string head with cutting line	LTA-039
Cutting line for Pro Cut II™ string head	RAC1209



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