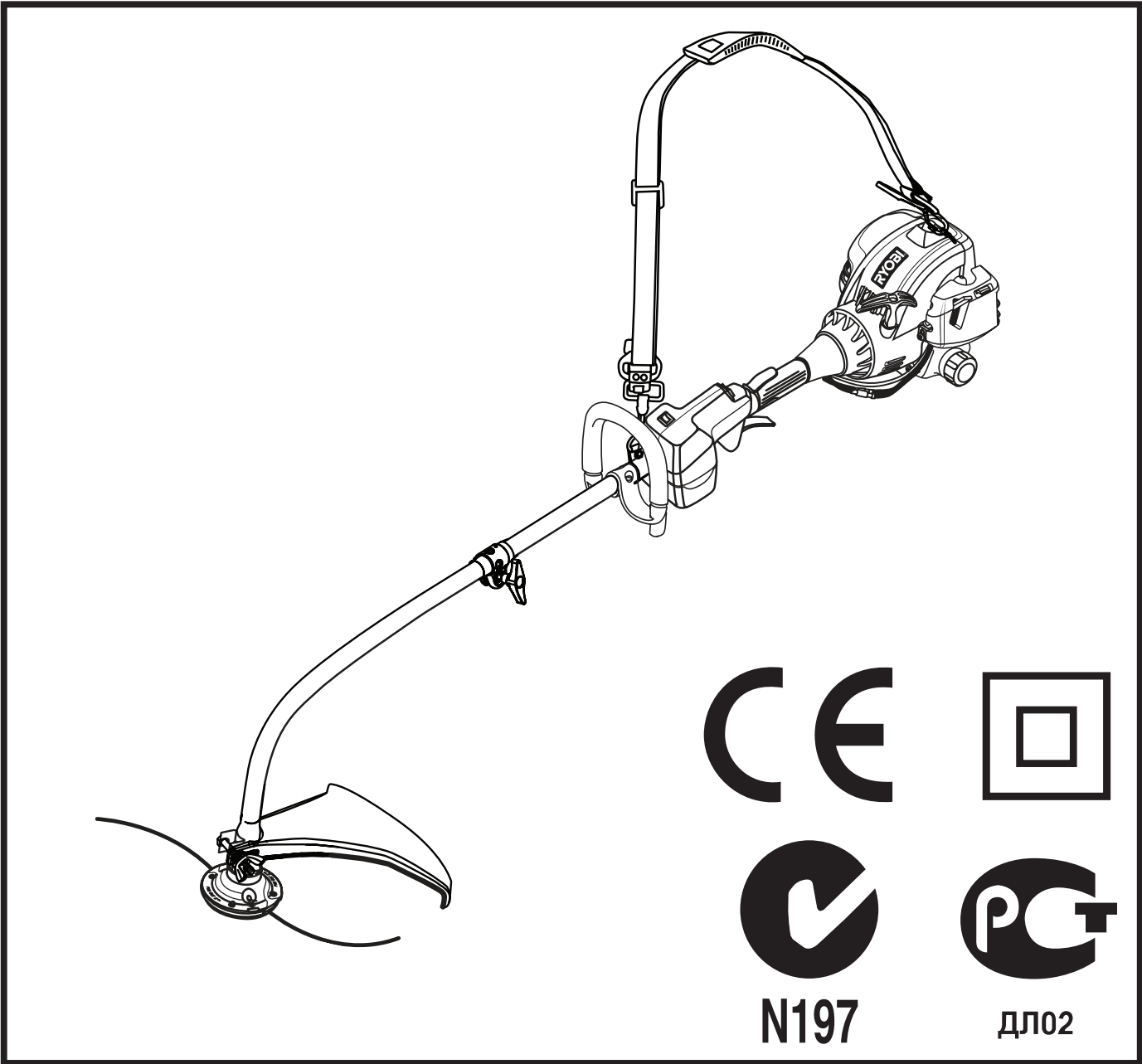




**RLT30CET**

**30cc CURVED SHAFT TRIMMER  
ELECTRIC START  
OPERATOR'S MANUAL**



## **WARNING:**

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

Your string trimmer has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

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## GENERAL SAFETY RULES



### 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

- For safe operation, read and understand all instructions before using this product. Follow all safety instructions. Failure to follow all safety instructions listed below, can result in serious personal injury.
  - Do not allow children or untrained individuals to use this unit.
  - 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 cutting line or blade.
  - Wear safety glasses or goggles that are marked to comply with EN 166 and AS/NZS1337 standards when operating this product.
  - A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
  - Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create a risk of fire.
  - Use battery only with charger listed.
- | MODEL    | BATTERY PACK | CHARGER                              |
|----------|--------------|--------------------------------------|
| RLT30CET | BPH-1215     | BCAH-120-S (only for British market) |
| RLT30CET | BPH-1215     | 7228501                              |
- Wear heavy, long trousers, boots and gloves. Do not wear loose fitting clothing, shorts, sandals or go barefoot. Do not wear jewellery of any kind.
  - Heavy protective clothing may increase operator fatigue, which could lead to heat stroke. During weather that is hot and humid, heavy work should be scheduled for early morning or late afternoon hours when temperatures are cooler.
  - Never operate this unit on the operator's left side.
  - Secure long hair above shoulder level to prevent entanglement in moving parts.
  - Keep all bystanders, children and pets at least 15m away. Bystanders should be encouraged to wear eye protection. If you are approached, stop the engine and cutting attachment. In the case of bladed units, there is the added risk of injury to bystanders from being struck with the moving blade in the event of a blade thrust or other unexpected reaction of the tool.
  - 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 firm footing and balance. 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.
  - To avoid hot surfaces, never operate the unit with the bottom of the engine above waist level.
  - Do not touch area around the muffler or cylinder of the unit, these parts get very hot from operation.

- Always stop the engine and remove the spark plug lead before making any adjustments or repairs except for carburettor adjustments.
- Inspect the unit before each use. Check for loose fasteners, fuel leaks, etc. Replace any damaged parts before use.
- The cutting attachment should never rotate at idle during normal use. The cutting attachment may rotate at idle during carburettor adjustments.
- Mix and store fuel in a container approved for petrol.
- Mix fuel outdoors where there are no sparks or flames. Wipe up any fuel spillage. Move 10m away from refuelling site before starting engine. Slowly remove the fuel cap after stopping engine. DO NOT SMOKE when refuelling.
- Stop the engine and allow to cool before refuelling or storing the unit.
- Allow the engine to cool; empty the fuel tank and secure the unit from moving before transporting in a vehicle.
- Wear protective equipment and observe all safety instructions. For units equipped with a clutch, be sure the cutting attachment stops turning when the engine idles. When the unit is turned off make sure the cutting attachment has stopped before the unit is set down.

## SPECIFIC SAFETY RULES

- Inspect before use. Replace damaged parts. Make sure fasteners are in place and secure. Check for fuel leaks.
- Replace cutting head if cracked, chipped or damaged in any way. Be sure the cutting head is properly installed and securely fastened. Failure to do so can cause serious injury.
- Make sure all guards, straps, deflectors and handles are properly and securely attached.
- Use only the manufacturer's replacement cutting line in the cutting head. Do not use any other cutting attachment. To install any other brand of replacement line or cutting head to this line trimmer can result in serious personal injury. Never use, for example, wire or wire-rope, which can break off and become a dangerous projectile.
- Never operate unit without the grass deflector in place and in good condition.
- Maintain a firm grip on both handles while trimming. Keep cutting head below waist level. Never cut with the cutting head located over 60cm or more above the ground.
- Do not place battery tools or their batteries near fire or heat. This will reduce the risk of explosion and possibly injury.
- Always shut off engine before fuelling. Never add fuel to a machine with a running or hot engine. Move at least 10m from refuelling site before starting engine. Wipe up any fuel spillage. DO NOT SMOKE. Failure to heed this warning could result in serious personal injury.
- 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.
- 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 charge battery tool in a damp or wet location. Following this rule will reduce the risk of electric shock.










# ENGLISH

## SPECIFIC SAFETY RULES

- For best results, your battery tool should be charged in a location where the temperature is more than 10°C but less than 38°C. 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 neutralise with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, and seek immediate medical attention. Following this rule will reduce the risk of serious personal 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	EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating Current	Type of current
≡	Direct Current	Type or a characteristic of current
$n_0$	No Load Speed	Rotational speed, at no load
	Class II Tool	Double-insulated construction
.../min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Safety Alert	Precautions that involve your safety.
	Read the Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Wear Eye and Hearing Protection	Wear eye protection which is marked to comply with ANSI Z87.1 as well as hearing protection when operating this equipment.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.
	Ricochet	Thrown objects can ricochet and result in personal injury or property damage.
	No Blade	Do not install or use any type of blade on a product displaying this symbol.
	Petrol and Lubricant	Use unleaded petrol intended for motor vehicle use with an octane rating of 87 [(R + M) / 2] or higher. This product is powered by a 2-stroke engine and requires pre-mixing petrol and 2-stroke lubricant.

# ENGLISH

## SYMBOLS

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

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 **AUTHORISED SERVICE CENTRE** 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.



### 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 EN 166 and AS/NZS1337 standards.

## SAVE THESE INSTRUCTIONS

### INTRODUCTION

This product has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

## DESCRIPTION OF FIGURES

### Figure 1

1. Shoulder strap
2. Pro Cut II string head
3. Drive shaft
4. Coupler
5. Strap hanger
6. Ignition switch
7. Trigger lock
8. Rear handle
9. Primer bulb
10. Fuel cap
11. Recoil starter
12. Throttle trigger
13. 12 Volt battery
14. Front handle
15. Wing screw
16. Grass deflection
17. Reel Easy Cutting head
18. Charger
19. Safety Switch
20. Latch
21. Choke lever

### Figure 2

22. Trimmer attachment
23. Button
24. Guide recess
25. Power head shaft
26. Position hole

### Figure 3

27. Hole
28. Hanger cap
29. Secondary hole

## DESCRIPTION OF FIGURES

Figure 4

- 30. Washer
- 31. Wing nut
- 32. Bolt

Figure 5

- 33. Slot
- 34. Tab
- 35. Wing screw

Figure 6

- 36. Hanger bracket

Figure 7

- 37. Red LED
- 38. Orange LED

Figure 8

- 39. Battery port
- 40. Battery

Figure 10

- 41. Direction of rotation

Figure 11

- 42. Dangerous cutting area
- 43. Best cutting area
- 44. Direction of rotation

Figure 12

- 45. Trimmer line cut-off blade

Figure 15a

- 46. Start position

Figure 15b

- 47. Run position

Figure 16

- 48. Drive shaft
- 49. Cutting head
- 50. Spool retainer

Figure 17

- 51. Pull lines from holes to remove
- 52. Slot
- 53. Hole
- 54. Slot
- 55. Hole

Figure 18

- 56. Idle speed screw

Figure 19

- 57. Latch

Figure 20

- 58. Latch
- 59. Filter screen
- 60. Air filter cover

Figure 21

- 61. Idle speed screw
- 62. Air filter cover

## 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.
- If any parts are damaged or missing do not operate this product until the parts are replaced.

### PACKING LIST

Trimmer Assembly  
Pro Cut II™ Line Head  
Spool Retainer  
Shoulder Strap  
12 Volt Battery  
Charger  
Front Handle  
Wing Screw  
Wing Nut  
Bolt  
Washer  
Grass Deflector  
Bottle of 2-Stroke Lubricant  
Hanger Cap  
Operator's Manual



#### 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:

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

### INSTALLING THE POWER HEAD SHAFT TO THE ATTACHMENT

See Figure 2.



#### WARNING:

Never install, remove, or adjust any attachment while power head is running. Failure to stop the engine can cause serious personal injury.

The attachment connects to the power head shaft by means of a coupler device.

- Loosen the Wing Screw 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 Wing Screw securely.

## ASSEMBLY



### WARNING:

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

### REMOVING THE ATTACHMENT FROM THE POWER HEAD

For removing or changing the attachment:

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

### ATTACHING THE HANGER CAP

See Figure 3.

There are two ways to hang your attachment for storage.

- To use the hanger cap, push in the button and place the hanger cap over end of the lower end attachment shaft. Slightly rotate the cap from side to side until the button locks into place.
- The secondary hole in the attachment shaft can be used for hanging purposes as well.

### ATTACHING THE FRONT HANDLE

See Figure 4.

- Remove wing nut, washer, and bolt from the front handle.
- Install the front handle onto the top side of the drive shaft housing.

**NOTE:** The open side of the handle should face the operator.

- Place the bolt through the front handle.

**NOTE:** The hex bolt head fits inside the hex recess moulded into one side of the handle.

- Reinstall the washer and wing nut.
- Tighten wing nut securely.



### WARNING:

The line cutting blade on the grass deflector is sharp. Avoid contact with the blade. Failure to avoid contact can result in serious personal injury.

### ATTACHING THE GRASS DEFLECTOR

See Figure 5.

- Remove the wing screw from the grass deflector.
- Insert the tab on the mounting bracket in the slot on the grass deflector.
- Align the screw hole in the mounting bracket with the screw hole in the grass deflector.
- Insert the wing screw through the mounting bracket and into the grass deflector.
- Tighten the screw securely.

### Attaching the Shoulder Strap

See Figure 6.

Follow these steps to attach the shoulder strap.

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

## FEATURES

### PRODUCT SPECIFICATIONS

Engine Displacement.....	30 cm <sup>3</sup>
Cutting Path Diameter.....	17 in / 432mm.
String Diameter.....	2.4/2.7 mm.
Battery Voltage.....	12 Volt
Mass (without fuel, cutting attachment and guard).....	6.37 kg
Mass (without fuel with string head).....	6.7kg
Volume (fuel tank).....	415cm <sup>3</sup>
Maximum engine perform (in accordance with ISO8893).....	0.70kw
Maximum rotational frequency of the spindle.....	12000/min
Engine speed (rotational frequency) at recommended max. spindle rotational frequency.....	12000/min
Engine speed (rotational frequency) at idling.....	2800-3500/min
Fuel consumption (in accordance with ISO8893) at max. engine performance.....	0.48kg/h or 0.66 L/h
Specific fuel consumption (in accordance with ISO8893) at max. engine performance.....	640 g/kw.h or 0.87 L/kw.h
Vibration levels for idling and racing (for idling and with wide open throttle for grass trimmers) when measured in accordance with 4.2Vibration level idling for Front handle and Rear handle.....	3.5 m/s <sup>2</sup> and 3.3 m/s <sup>2</sup>
Vibration level racing for Front handle and Rear handle.....	14.5 m/s <sup>2</sup> and 10.4 m/s <sup>2</sup>
Sound pressure level (in accordance with EN2791).....	100.7 dB (A)
Sound power level (in accordance with ISO10884).....	109 dB (A)

### KNOW YOUR LINE TRIMMER

See Figure 1.

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

### CHARGER

The charger has a key-hole hanging feature for convenient, space-saving storage. Screws should be installed so that the centre distance is 11.5cm

### ELECTRIC START

The line trimmer has an electric start which can be used in place of the pull start.

### PRO CUT II™ LINE HEAD

The line trimmer is provided with an additional cutting head.

### GRASS DEFLECTOR

The line trimmer includes a grass deflector that helps protect you from flying debris.

### SHOULDER STRAP

The line trimmer includes a shoulder strap that helps support the product.

### TOP-MOUNTED MOTOR

The top-mounted motor improves balance and is located away from the dust and debris of the cutting area.



## 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.

## FUELING AND REFUELING THE TRIMMER HANDLING THE FUEL SAFELY



### WARNING:

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

Always handle fuel with care; it is highly flammable.

Always refuel outdoors, do not inhale fuel vapours.

Do not let petrol or lubricant come in contact with skin. If contact does occur wash immediately with soap and plenty of water.

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 fuel immediately. Refer to Refuelling in the Specific Safety Rules section of this manual for additional safety information.

## MIXING THE FUEL

This 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 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 a high quality 2-stroke self-mixing lubricant for air-cooled engines. Do not use automotive lubricant or 2-stroke outboard lubricant.

Mix 2% lubricant into the petrol. This is a 50:1 ratio.

Mix the fuel thoroughly and each time before fuelling.

Mix in small quantities. Do not mix quantities larger than usable in a 30-day period. A 2-stroke lubricant containing a fuel stabilizer is recommended.

## OXYGENATED FUELS

Some conventional petrol are blended with alcohol or an ether compound. This type of petrol is collectively referred to as oxygenated fuels.

If using an oxygenated fuel, make sure it is unleaded and meets the minimum octane rating requirements. Before using an oxygenated fuel, try to confirm the fuel's contents. Some areas require this information to be posted on the pump. The following are the EPA approved percentages of oxygenates:

**Ethanol (ethyl or grain alcohol) 10% by volume.** You may use petrol containing up to 10% ethanol by volume. Petrol containing ethanol may be marketed under the name "Gasohol." Do not use E85 fuel.

**MTBE (methyl tertiary butyl ether) 15% by volume.** You may use petrol containing up to 15% MTBE by volume.

**Methanol (methyl or wood alcohol) 5% by volume.** You may use petrol containing up to 5% methanol by volume as long as it also contains co solvents and corrosion inhibitors to protect the fuel system. Petrol containing more than 5% methanol by volume may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the product or your fuel system. If you notice any undesirable operating symptoms, try another service station or switch to another brand of Petrol.

**NOTE:** Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentages of oxygenates stated previously are not covered under warranty.

## FILLING THE FUEL TANK

- Clean the surface around the fuel cap to prevent contamination.
- Loosen the fuel cap slowly.
- Carefully pour the fuel mixture into the tank. Avoid spillage.
- Prior to replacing the fuel cap, clean and inspect the gasket.
- Immediately replace the fuel cap and hand tighten it. Wipe up any fuel spillage.

**NOTE:** It is normal for the engine to emit smoke during and after the first use.



1 litre +	20 ml	=	50:1	} 50:1
2 litres	+ 40 ml	=	50:1	
3 litres	+ 60 ml	=	50:1	
4 litres	+ 80 ml	=	50:1	
5 litres	+ 100 ml	=	50:1	

## CHARGING THE BATTERY PACK

The battery pack for this tool has been shipped in a low charge condition to prevent possible problems. Therefore, you should charge overnight prior to use.

**NOTE:** Batteries will not reach full charge the first time they are charged. Allow several cycles (operation followed by recharging) for them to become fully charged.

- Charge battery pack only with the charger assembly provided (BPH-1215 / 12V Ni-Cd).
- Make sure power supply is normal household voltage, 230V/240V~, 50 Hz.
- Connect charger to power supply.
- Place battery pack in charging stand. Align raised rib on battery pack with groove in charging stand. (See Figure 8.)
- Press down on battery pack to be sure contacts on battery pack engage properly with contacts in charging stand.
- The charge indicator light (LED), located on the charging stand, will light up red when the charger is properly connected to power supply. This light indicates the charger is operating properly. It will remain on until battery pack is removed from charging stand or charger is disconnected from power supply.
- After normal usage, 3 hours or less of charging time is required to fully recharge battery pack.
- Do not leave the battery pack an charge for more than 3 hours, any longer than 3 hours will cause permanent damage to the battery which is not covered by warranty.



## OPERATION

- If both red and orange LED indicators glow, the battery pack is deeply or completely discharged, and 6 hours or longer of charging time is required to fully recharge battery pack.

**NOTE:** If charger does not charge battery pack or orange LED continues to glow after more than 30 minutes of charging, return battery pack and charging assembly to your nearest Ryobi Authorised Service Centre for electrical check.

- The battery pack will become slightly warm to the touch while charging. This is normal and does not indicate a problem.
- Do not place charger in an area of extreme heat or cold. It will work best at normal room temperature.
- When batteries become fully charged, unplug charger from power supply and remove the battery pack.

### OPERATING THE TRIMMER

See Figure 9.



**WARNING:**

Always position the unit on the operator's right side. The use of the unit on the operator's left side will expose the user to hot surfaces and can result in possible burn injury.



**WARNING:**

To avoid burns from hot surfaces, never operate unit with the bottom of the engine above waist level.

Hold the trimmer 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. Trimmer should be held at a comfortable position with the rear handle about hip height.

Always operate trimmer at full throttle. Cut tall grass from the top down. This will prevent grass from wrapping around the shaft housing and cutting head which could cause damage from overheating. If grass becomes wrapped around the cutting head, STOP THE ENGINE, disconnect the spark plug lead, and remove the grass.

Prolonged cutting at partial throttle will result in lubricant dripping from the muffler.



**WARNING:**

Always hold the line trimmer away from the body keeping clearance between the body and the product. Any contact with the housing or line trimmer cutting head can result in burns and/or other serious personal injury.

### TO ADVANCE THE CUTTING LINE - REEL EASY

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

- Run engine at full throttle.
- Tap the knob on ground to advance line. The line 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 line is worn too short you may not be able to advance the line by tapping it on the ground. If so, stop the engine, and manually advance the line.

### TO ADVANCE THE CUTTING LINE MANUALLY:

- Stop the engine and disconnect the spark plug lead.
- Push the knob in while pulling on line to manually advance the line.

### CUTTING TIPS

See Figures 9 - 11.

- Avoid hot surfaces by always keeping the tool away from your body. (Proper operating position shown in figure 9.)
- Keep the trimmer tilted toward the area being cut; this is the best cutting area.
- The trimmer cuts when passing the unit from left to right. This will avoid throwing debris at the operator. Avoid cutting in the dangerous area shown in illustration.
- Use the tip of line to do the cutting; do not force cutting head into uncut grass.
- 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 line.

### LINE TRIMMING CUT-OFF BLADE

See Figure 12.

The trimmer is equipped with a line trimming cut-off blade on the grass deflector. For best cutting, advance line until it is trimmed to length by the cut-off blade. Advance the line whenever you hear the engine running faster than normal, or when trimming efficiency diminishes. This will maintain best performance and keep the line long.

### STARTING AND STOPPING

See Figures 13 - 15.

When starting the line trimmer for the first time or when the battery voltage is low, it may be necessary to manually start the line trimmer.

#### FOR MANUAL START:

**To start a cold engine:**

**DO NOT** squeeze the throttle trigger until the engine starts and runs.

- Lay the trimmer on a flat, level surface.
- **PRIME** - Press the primer bulb at least 7 times, so fuel is clearly visible.
- **SET** the start lever to the **START** position.
- Ensure the 'ignition switch' (item 6) is in the centre position.
- **PULL** the recoil starter until the engine starts.
- Wait 6-10 seconds, then gently squeeze the trigger to run.

**NOTE:** Squeezing and releasing the throttle trigger releases the start lever to the RUN position.

**To start a warm engine:**

- Make sure the 'ignition switch' is in the centre position.
- **PULL** the recoil starter until the engine starts.

**To stop the engine:**

- Press the 'ignition switch' (item 6) to the stop "O" position and the engine will stop.

#### FOR ELECTRIC START:

**MAKE SURE THE BATTERY HAS BEEN FULLY CHARGED - SEE CHARGING BATTERY**

To start a cold engine:

- **DO NOT** squeeze the throttle trigger until the engine starts and runs.
- Install the battery onto the unit as shown in figure 8.
- Lay the trimmer on a flat, level surface.
- **PRIME** - Press the primer bulb at least 7 times, so fuel is clearly visible.
- **SET** the start lever (item 21) to the **START** position on the side of the carburettor.
- **PRESS** the 'safety switch' (item 19) and the 'ignition switch' to position 3 (item 6) at the same time.

## OPERATION

- **N.B. The safety switch is a rocker type switch and will automatically reset it's self once released.**
  - **N.B. The ignition switch is a 3 position switch. position 1 is 'off' position 2 is run, and position 3 is a rocker type switch which will automatically reset it's self to position 2 once released.**
  - **RELEASE** the 2 switches after engine starts - they will revert back to their resting place.
  - Wait 6-10 seconds, then squeeze the throttle trigger to run.
- NOTE:** Squeezing and releasing the throttle trigger releases the start lever to the **RUN** position.

### To start a warm engine:

- Lay the trimmer on a flat, bare surface.
- **PRESS** the 'safety switch' (item 19) and the 'ignition switch' (Item 6) at the same time.
- **RELEASE** the 2 switches after engine starts - they will revert back to their resting place.

## 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 tool operation. If operation is dusty, also wear a dust mask.



### WARNING:

Before inspecting, cleaning, or servicing the machine, shut off engine, wait for all moving parts to stop, and disconnect spark plug lead and move it away from spark plug. 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, lubricant, grease.



### WARNING:

Do not at any time let brake fluids, petrol, petroleum-based products, penetrating lubricants, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

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

### INSTALLING PRO CUT II™ LINE HEAD

See Figure 16.

- Stop the engine and disconnect the spark plug wire.
- Remove currently installed line head.
- Install the line head on the drive shaft until fully seated.
- Install the spool retainer and turn counter clockwise.
- Install cutting line as described in the next section of this manual.

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

See Figure 17.

Use monofilament line diameter 2.4mm or 2.7mm. Use original manufacturer's replacement line for best performance.

- Stop the engine and disconnect the spark plug lead.
- Gather two of the pre-cut lengths of trimmer line provided or cut two pieces of trimmer line, in 28cm lengths.
- Insert the line into the slots located on the sides of the line head. Line should be pushed in until approximately 2.5cm protrudes from the holes on the top of the line head.
- Remove old line by pulling it from the holes located on the top of the line head.

### CLEANING THE EXHAUST PORT, MUFFLER AND SPARK ARRESTOR

**NOTE:** Depending on the type of fuel used, the type and amount of lubricant used, and/or your operating conditions, the exhaust port, muffler, and/or spark arrestor screen may become blocked with carbon deposits. If you notice a power loss with your petrol powered tool, you may need to remove these deposits to restore performance. We highly recommend that only qualified service technicians perform this service.

The spark arrestor must be cleaned or replaced every 50 hours or yearly to ensure proper performance of your product. Spark arrestors may be in different locations depending on the model purchased. Please contact your nearest service dealer for the location of the spark arrestor for your model.

### IDLE SPEED ADJUSTMENT

See Figure 18.

If the cutting attachment turns at idle, the idle speed screw needs adjusting on the engine. Turn the idle speed screw counter clockwise to reduce the idle RPM and stop the cutting attachment movement. If the cutting attachment still moves at idle speed, contact a service dealer for adjustment and discontinue use until the repair is made.



### WARNING:

The cutting attachment should never turn at idle. Turn the idle speed screw counter clockwise to reduce the idle RPM and stop the cutting attachment, or contact a service dealer for adjustment and discontinue use until the repair is made. Serious personal injury may result from the cutting attachment turning at idle.

### CLEANING AIR FILTER SCREEN

See Figures 19 - 20.

For proper performance and long life, keep air filter screen clean.

- Remove the air filter cover by pushing down on the latch with your thumb while gently pulling on the cover.
- Brush the air filter screen lightly to clean.
- Replace the air filter cover by inserting the tabs on the bottom of the cover into the slots on the air filter base; push the cover up until it latches securely in place.

### FUEL CAP



### WARNING:

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

The 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 may be faulty or filter clogged. Replace fuel cap if required.

# ENGLISH

## MAINTENANCE

### SPARK PLUG REPLACEMENT

This engine uses a Champion RCJ-6Y or NGK BPMR7A spark plug with .025 in.(6.35mm) electrode gap. Use an exact replacement and replace annually.

### STORING THE PRODUCT

- Clean all foreign material from the product. Store idle unit indoors in a dry, well-ventilated area that is inaccessible to children. Keep away from corrosive agents such as garden chemicals.

#### When storing 1 month or longer:

- Drain all fuel from tank into a container approved for petrol. Run engine until it stops.

## 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></ol>	<ol style="list-style-type: none"><li>1. Clean or replace spark plug. Reset spark plug gap. Refer to Spark Plug Replacement earlier in this manual.</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 service dealer. If primer bulb fills, engine may be flooded, proceed to next item.</li><li>3. Set the start lever to the START position. Squeeze the trigger and pull the rope repeatedly until the engine starts and runs.</li></ol> <p><b>NOTE:</b> Depending on the severity of the flooding, this may require numerous pulls of the rope.</p>
Engine does not reach full speed and emits excessive smoke	<ol style="list-style-type: none"><li>1. Incorrect lubricant/fuel mixture.</li><li>2. Air filter screen is dirty.</li><li>3. Spark arrestor screen is dirty.</li><li>4. Spark plug fouled.</li></ol>	<ol style="list-style-type: none"><li>1. Use fresh fuel and the correct 2- stroke lubricant mix. (50:1).</li><li>2. Clean air filter screen.</li></ol> <p>Refer to Cleaning Air Filter Screen earlier in this manual.</p> <ol style="list-style-type: none"><li>3. Contact a servicing dealer.</li><li>4. Clean or replace spark plug. Reset spark plug gap. Refer to Spark Plug Replacement earlier in this manual.</li></ol>
Engine starts, runs, and but will not idle	Idle speed screw on carburettor needs adjustment.	Turn idle speed screw clockwise to increase idle speed. accelerates See Figure 21.
Line will not advance	<ol style="list-style-type: none"><li>1. Line is welded to itself.</li><li>2. Not enough line on spool.</li><li>3. Line is worn too short.</li><li>4. Line is tangled on spool.</li><li>5. Engine speed is too slow.</li></ol>	<ol style="list-style-type: none"><li>1. Lubricate line with silicone spray.</li><li>2. Install more line. Refer to the applicable line replacement section in this manual.</li><li>3. Pull line while alternately pressing down on and releasing spool</li><li>4. Remove line from spool and rewind.</li><li>5. Advance string at full throttle.</li></ol> <p>Refer to the applicable line replacement section in this manual.</p>
Spool retainer hard to turn	Screw threads are dirty or damaged.	Clean threads and lubricate with grease - if no improvement, replace the spool retainer.
Grass wraps around driveshaft housing and cutting head	<ol style="list-style-type: none"><li>1. Cutting tall grass at ground level.</li><li>2. Operating trimmer at part throttle.</li></ol>	<ol style="list-style-type: none"><li>1. Cut tall grass from the top down to prevent wrapping.</li><li>2. Operate trimmer at full throttle.</li></ol>

### CALL US FIRST

For any questions about operating or maintaining your product, call the Ryobi® Help Line!  
Your product has been fully tested prior to shipment to ensure your complete satisfaction.

## LIMITED WARRANTY

TTI warrants this outdoor product to be free of defects in material or workmanship for 24 months from the date of purchase by the original purchaser, subject to the limitations below. Please keep your invoice as proof of date of purchase.

**This warranty is only applicable where the product is used for personal and non-commercial purposes.** This warranty does not cover damage or liability caused by / due to misuse, abuse, accidental or intentional acts by user, improper handling, unreasonable use, negligence, failure by end user to follow operating procedures outlined in the user's manual, attempted repair by non-qualified professional, unauthorized repair, modification, or use of accessories and/or attachments not specifically recommended by authorized party.

This warranty does not cover belts, brushes, bags, bulbs or any part which ordinary wear and tear results in required replacement during warranty period. Unless specifically provided under applicable law, this warranty does not cover transportation cost or consumable items such as fuses.

This limited warranty is void if the product's original identification (trade mark, serial number, etc.) markings have been defaced, altered or removed or if product is not purchased from an authorized reseller or if product is sold AS IS and / or WITH ALL FAULTS.

Subject to all applicable local regulations, the provisions of this limited warranty are in lieu of any other written warranty, whether express or implied, written or oral, including any warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL WE BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES. OUR MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID BY YOU FOR THE PRODUCT.

**This warranty is valid only in the European Union, Australia and New Zealand. Outside these areas, please contact your authorized Ryobi dealer to determine if another warranty applies.**

## CE DECLARATION OF CONFORMITY

We declare in sole responsibility that the product: - to which this certificate applies, conforms to the basic health and safety requirements of the Machinery Directive 98/37/EC and other relevant directives, like EMC Directive 2004/108/EC, Noise Emission Directive 2000/14/EC amended by 2005/88/EC, Battery Directive 2006/66/EC and Gas Emission Directive 97/68/EC amended by 2004/26/EC.

To effect correct application of the health and safety requirements stated in the EEC directives, the following European and/or national standards and/or technical specifications were consulted: ISO 11806:1997 / ISO 22868:2005 / ISO 22867:2004 / EN ISO14982:1998.

We declare this product complies to the requirements of the Directive. 2000/14/EC, amended by 2005/88/EC.

## RLT30CET

Measured Sound Power Level	107.6 dB (A)
Guaranteed Sound Power Level	109 dB (A)
Date of issuance	09 / 2008

Technical documents are kept by Homelite Far East Co., Ltd. 24/F, 388 Castle Peak Road, Tsuen Wan, N.T., Hong Kong.

Declared in May 2008 by Homelite Far East Co., Ltd.

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Address: 24/F, CDW Building,  
388 Castle Peak Road,  
Tsuen Wan, Hong Kong.

Type: **RLT30CET**

Name/Title: Andrew Eyre  
Vice President, Engineering

Signature:



09/2008