

RYOBI POWER EQUIPMENT WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from

misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the service dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.



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THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....

ADDRESS OF DEALER:.....

DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.

RYOBI®

OWNER'S OPERATING MANUAL GRASS TRIMMER MODEL RLT-310

SPECIFICATIONS

Voltage.....	230V~50Hz
Rated input.....	1000W
No load speed.....	7000min ⁻¹
Cutting diameter.....	35cm
Cutting line size.....	Ø2.0mm x 6m
Telescopic shaft diameter.....	22mm
Cable length.....	35cm
Sound pressure level.....	L _{pA} 82.7dB(A),k=3dB(A)
Sound power level.....	L _{WA} 94.5dB(A),k=3dB(A)
Vibration level.....	6.35m/s ² , K=1.5m/s ²
Net weight.....	3.8kg

THANK YOU FOR BUYING A RYOBI GRASS TRIMMER

Your new grass trimmer has been engineered and manufactured to Ryobi's high standard of dependability, ease of operation and operator safety. Properly cared for, it will give you years of rugged, trouble free performance. If you use your grass trimmer properly and only for what it is intended, you will enjoy years of safe, reliable service.



CAUTION: Carefully read through this entire owner's manual, paying close attention to the general safety rules and rules for safe operation, before using.

KEEP THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY INSTRUCTIONS

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



SAFETY ALERT SYMBOL. Indicates danger, caution or warning. May be used in conjunction with other symbols or pictures.

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.

INTENDED USE

This product should only be used outdoors. The product is intended for cutting long grass, weed, and similar vegetation at or about ground level. The cutting plane should be approximately parallel to the ground surface. The product should not be used to cut or trim hedges, bushes or other vegetation where the cutting plane is not parallel to the ground surface.



WARNING

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



WARNING

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

SPECIFIC SAFETY INSTRUCTIONS

Read all these instructions before attempting to operate this product and save these instructions.

When using the unit, basic safety precaution, including the following, should always be followed to reduce the risk or serious personal injury and damage to the unit. Read all these instructions before operating this product and save these instructions.

The device must not be used by people (including children) with limited physical, sensory or mental faculties or who lack the necessary experience and/or knowledge - other than they are supervised by a person responsible for safety or are being instructed to operate the machine by such a person.

Keep children and pets at a safe distance away from the device. Children must be supervised in order to ensure that they do not play with the equipment.

Never allow children or other persons unfamiliar with the user manual to use the grass trimmer. Local regulations or bylaws may determine the minimum age for using the machine.

Observe local noise and other regulations.

CAUTION! When using powered tools, observe the following basic safety measures for the prevention of electric shocks and the risk of injury and fire:

The safety rules must be observed during tool use. Before starting the tool, read the instructions regarding personal safety and the safety of unauthorised persons.

Keep the instructions in a good state for future use.

In order to reduce the risk, disconnect the plug from the supply power, only use recommended accessories as required, otherwise personal injury may result.

Periodically inspect the condition of the cutting head. If the spool is damaged, switch off, remove the plug from the power point and replace the spool.

Do not use the tool to cut grass, which is not on the ground. For example, do not cut grass, which is on walls or rocks.

IMPORTANT SAFETY INSTRUCTIONS

Do not switch on the tool in enclosed or poorly ventilated spaces or in the presence of inflammable and /or explosive substances such as liquid, gases and powders.

Always stop the trimmer and switch off at the mains when cutting is delayed or when walking from one cutting location to another.

Do not cross roads or gravel paths with tool still running.

After use, disconnect the tool from the power supply and check for damage. If you have the slightest doubts, check with the authorised service centre.

Only use the tool according to the instructions given in this manual.

Do not extend the trimming line beyond the guard and do not operate the trimmer without both lines extended and proper line installed.

Check regularly that the nuts, bolts and screws are tight.

USING THE GRASS TRIMMER

When using the tool, always use caution and take on a firm and well-balanced position.

Where possible, avoid working on wet, slippery ground or in any case on uneven or steep ground that does not guarantee stability for the operator.

Never run, but walk carefully paying attention to the lay of the land and any eventual obstacles.

Assess the potential risks of the ground to be mown and take all necessary precautions to ensure your own safety, especially on slopes or on bumpy, slippery or unstable ground.

Do not use the tool if you are unable to hold it with both hands or keep it steady on your legs while working.

Never allow children or persons unfamiliar with these instructions to use the tool. Local regulations can restrict the age of the user.

The tool must never be used by more than one person.

Never use the tool:

When people, especially children or pets are in the vicinity.

If the user is tired or unwell, or has taken medicine, drugs alcohol or any substances which may slow his reflexes and compromise his judgement;

If the guards are damaged or have been removed.

ELECTRICAL SAFETY

CAUTION! The following states how damage to the grass trimmer and possible injury to people can be avoided:

Handle the unit with care. Clean the ventilation slots regularly, follow the maintenance instructions.

Do not overload your device. Work only within the indicated range of performance. Do not use low power machines for heavy duty work. Do not use your device for purposes for which it has not been designed.

Do not attempt to repair the machine yourself unless you are qualified to do so. Any work not specified in this manual may only be carried out by a qualified service centre.

Only use extension cables that have been approved for outdoor use and are resistant to splash water. The core diameter for extension cables measuring up to 25m must be at least 1.5 mm², and 2.5 mm² for cables longer than 25m. Always roll the whole cable off the reel before use. Check the cable for damage.

The supply voltage must correspond to the voltage specified on the modelplate.

Do not abuse the cable. Never move the unit by the cable or pull the cable to disconnect it from the mains socket. Keep the cable away from heat, oil and sharp edges. Ensure that the cable is arranged so that it cannot be tripped over, stepped on or have heavy weights rested on it. Make sure the cable will not be subjected to any damage.

Do not use the machine if the cables are damaged or worn.

Do not connect a damaged cable to the mains supply or touch a damaged cable before it is disconnected from the mains supply. A damaged cable can lead to an electric shock.

IMPORTANT SAFETY INSTRUCTIONS

GENERAL SAFETY RULES

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) WORK AREA

- a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

3) PERSONAL SAFETY

- a) Stay alert, watch what you are doing and use common sense when operating a power tool.

Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on.
A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

4) POWER TOOL USE AND CARE

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

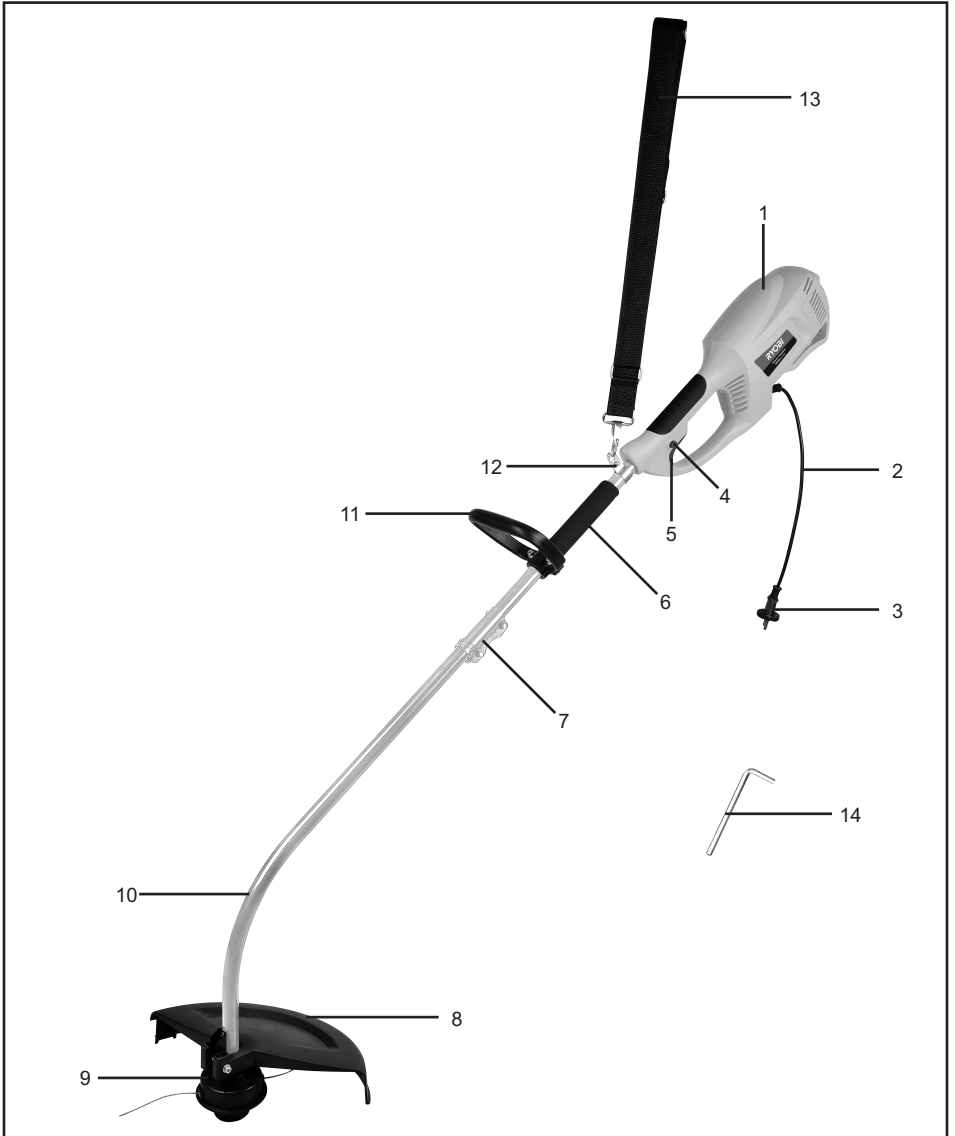
IMPORTANT SAFETY INSTRUCTIONS

- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

5) SERVICE

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

DESCRIPTION



1. Motor housing
2. Power cable
3. Plug
4. Trigger safety lock button
5. Switch trigger
6. Soft grip
7. Shaft attachment coupler

8. Grass deflector
9. Cutting line spool
10. Cutting head assembly
11. Auxiliary front handle
12. Harness hook
13. Harness
14. S5 Allen key

UNPACKING



CAUTION. This packaging contains sharp objects. Take care when unpacking. Remove the machine, together with the accessories supplied, from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete.

If any parts are found to be missing, the machine and its accessories should be returned together in their original packaging to the retailer. Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means. Do not let children play with empty plastic bags due to the risk of suffocation.

ASSEMBLY

PACKING CONTENTS

- Cutting head assembly
- Upper motor assembly
- Grass deflector
- Auxiliary front handel
- Allen key
- Harness
- Operator's manual.



WARNING. If any parts are damaged or missing, do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in 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.



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.

INSTALLING THE CUTTING HEAD ASSEMBLY

Slacken the shaft attachment coupler knob Fig.1 on the shaft attachment coupler on the upper motor assembly. Carefully slide the cutting head assembly into the shaft attachment coupler on the upper motor assembly, Fig.2.

When doing so, take care to ensure that the drive shafts on the insides of the shafts slide into each other (turn the spool head gently, if required) and that the lock on the cutting head assembly latches securely in the shaft attachment coupler, Fig.3.

Now retighten the shaft attachment coupler knob. To dismantle, proceed in reverse order.

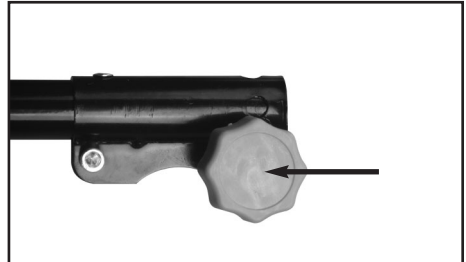


Fig. 1

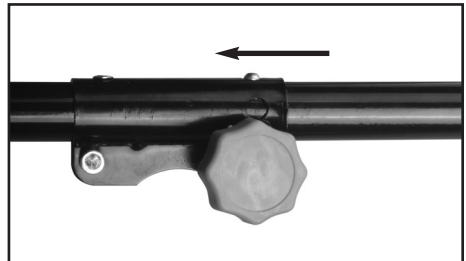


Fig. 2

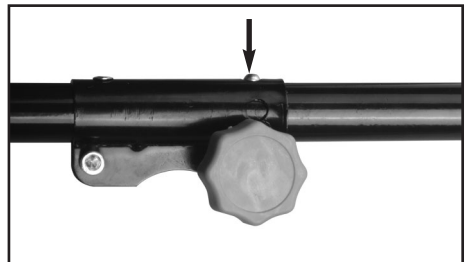


Fig. 3

ASSEMBLY

ATTACHING THE CUTTING HEAD GUARD



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.

1. Locate the bolt, nut and washer used to fix the grass deflector.
2. Align the screw hole in the mounting bracket with the screw hole in the grass deflector.
3. Push the bolt through the mounting bracket and into the grass deflector and fix the washer and nut and tighten with the allen key, Fig.4. Ensure it is tightly fitted before use.

INSTALLING AND ADJUSTING THE HANDLE

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

Fix the auxiliary front handle to the upper shaft using the 2 bolts, washers and nuts supplied with the S5 Allen key, Fig.5. The auxiliary handle can be moved either up and down the shaft or rotated 360° around the shaft.



Fig. 4



Fig. 5

OPERATION



WARNING. Do not allow familiarity with products to make you careless. Remember that a careless fraction of a second is sufficient to inflict severe injury.



WARNING. Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.



WARNING. Never use blades, flailing devices, wire or rope on this product. 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.

CONNECTING TO A POWER SUPPLY

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

Form a loop with the end of the extension cord.

Insert loop portion of extension cord through the opening in the bottom of the rear handle and place over power cable retainer, Fig.6.

Slowly pull loop against power cable retainer until the slack is removed.

Plug product into extension cord.



Fig. 6

OPERATION

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

NOTE: Use only approved outdoor extension cords.

NOTICE: Always use cord retainer to properly attach extension cord to string trimmer. Failure to use cord retainer may result in damage to string trimmer and/or extension cord.

STARTING/STOPPING THE TRIMMER

Push in the safety lock button (A) and squeeze the On/Off trigger (Fig.7)(B) to start the grass trimmer. To stop the Grass Trimmer, simply release the trigger.



WARNING. The motor will continue to run for approximately 5 seconds after it has been switched off. Let the motor come to a complete stop before setting the tool down.

EXTENDING THE LINE

As the grass trimmer is used the cutting line will become worn down and less efficient. To increase the length of the cutting line with the grass trimmer running, bump the centre button in the cutting line spool, Fig.8, on the ground. This will release more cutting line which will be cut to the correct length by the blade fitted in the cutting head guard.

The line will be cut to the correct length by the cutting blade, Fig.9 everytime the cutting head is started.

Note: You will need to exert a certain force to pull out the line when the trimmer is used for the first time. To do so, press on the push button and pull out the line as far as the edge of the grass deflector.

ATTACHING THE SHOULDER HARNESS

Connect the latch on the shoulder harness to the harness hook, Fig.10.

Adjust the strap to a comfortable position.

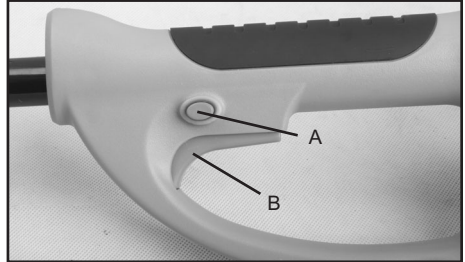


Fig. 7

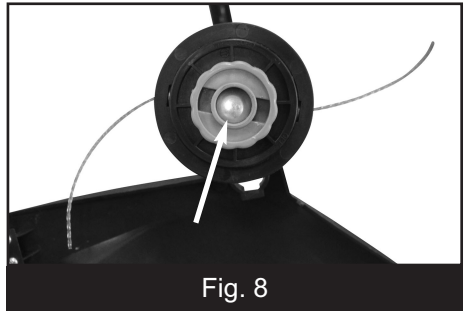


Fig. 8



Fig. 9

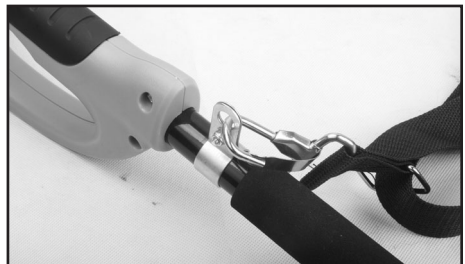


Fig. 10

OPERATION

PREPARING TO WORK

CHECKING THE TOOL

Ensure that the trimmer is not connected to a power supply.

Before starting work please:

Check that the trigger switches and the safety switch should move freely without forcing and return automatically and rapidly back to their neutral position;

Check that the cooling air vents are not obstructed;

Check that hand grips and protection devices are clean and dry, correctly mounted and well fastened to the tool;

Check that the tool is not showing signs of wear or damage due to knocks or other causes, and carry out the necessary repairs.

Check that the mains cable is in good working condition and there are no signs of damage.

Never use the tool with a damaged or worn mains cable.

TRIMMING AND EDGING

For the most effective grass trimming, ensure the tool is operating at full speed and then use slow shallow sweeps of the line, ensuring that you do not overload the tool by cutting too fast or cutting through heavy terrain.

Make sure that the work area is free of rock, debris, lines and other foreign objects.

Put the shoulder strap over your shoulder opposite side to the unit.

Hold the trimmer with your right hand on the trigger handle and your left hand on the front handle.



Fig. 11

NOTE: Keep a firm grip with both hands during operation. Place the trimmer on the side your body with the motor behind and away from your body. (Fig.11)

Start the tool before approaching the grass to be cut.

If you need to release the line, please "bump" the spool button of the trimmer on the ground to feed out more line. If too much line is fed out and it projects beyond the guard edge it is cut by the line trimming blade.

Cut the grass by swinging the tool from right to left and proceed slowly keeping the trimmer inclined forwards at an angle of about 30°. Light cuts are better than heavy cuts as they allow the cut grass to fall away from the spool preventing the grass from clogging the spool.

High grass should be cut in layers always beginning from the top. Do not cut damp or wet grass. Do not overload your tool.

Avoid wearing the line out quickly by knocking against hard objects (stones, walls, fences etc).

Watch out for kickbacks in the events of impact with hard objects.

After finishing the cutting operation, keep the head close to ground level, release the trigger switch and allow the motor to come to a complete stand still.

Place the trimmer on the ground, remove the power cord.

For edging, rotate the grass trimmer 180°

Note. Periodically clean out the grass between the spool and the rim of the guard to prevent the tool from vibrating.

TIPS FOR TRIMMING

Avoid hot surfaces by always keeping the tool away from your body.

Cut all grass from top to down. This will prevent grass from wrapping around the shaft housing and string head which could cause damage from overheating. If grass becomes wrapped around the string head, Stop the grass trimmer, disconnect the power supply, and remove the grass.

Use the tip of line to trim grass; do not force string head into uncut grass.

Avoid trees, flowers, stones, walls and other objects which can cause the line breakage.

MAINTENANCE



WARNING. Before inspecting, cleaning, or servicing the machine, shut off motor, wait for all moving parts to stop, and disconnect extension cord. 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.



WARNING. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Periodically, clean all foreign material from the trimmer head air vents.

You can often make repairs described here. For other repairs, have the trimmer serviced by an authorized service center.

STORAGE

After every work stint, clean the machine thoroughly to remove all dust and debris, and repair or replace any faulty parts.

The machine must be stored in a dry place away from the elements and out of the reach of children.

SPOOL REPLACEMENT

Line diameter: Ø2.0mm x 6m

Stop the machine, disconnect the plug from the mains supply. Hold the line head and unscrew the spool in an anticlockwise direction, Fig.12.

Remove the empty spool from the string head. Keep the line attached to the spool, Fig.13.

To install the new spool, make sure the two lines are captured in the slots opposite each other on the spool and each line is extended approximately 150 mm beyond each slot.

Thread the strings into the spool holes in the line head. Carefully push the spool into the line head (gently pull the lines to the outside if necessary).



Fig. 12















Fig. 13

When the spool is positioned in line string head, grasp the strings and pull sharply to release them from the slots in the spool. Screw on the spool in a clockwise direction making sure it is securely fastened.

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
	Safety Alert Symbol	Indicates danger, warning or caution. It means attention!!! Your safety is involved.
	Read Your Operator's Manual	Your manual contains special messages to bring attention to potential safety concerns as well as operating and servicing information. Please read all the information carefully to ensure satisfaction and safe use.
	Wear eye, hearing and head protection	Wear eye, hearing and head protection when operating this equipment.
	Keep bystanders away	Keep all bystanders at least 15 m away.
	Ricochet	Danger of Ricochet.
	Damaged cable	Remove cable from power if it is damaged.
	Wet conditions alert	Do not expose to wet or damp conditions.
	Boots	Wear non-slip safety footwear when using this equipment.
	Gloves	Wear non-slip, heavy-duty gloves.
	Insulation Symbol	Double insulated for additional protection.
	Recycle Symbol	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	CE Marking	Conforms to relevant safety standards.

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