



ELECTRIC POLE HEDGE TRIMMER

RAC450EPHT-UK

INSTRUCTIONS MANUAL



Before using electric hedge trimmer for the first time, please read this manual

BUILDER SAS
32, rue Aristide Bergès - ZI 31270 Cugnaux – France
MADE IN PRC 2018



CONTENTS

1. SAFETY WARNING	3
2. YOUR PRODUCT	8
3. ASSEMBLY	10
4. USE	11
5. MAINTENANCE AND STORAGE	13
6. DISPOSAL	14
7. TROUBLESHOOTING	14
8. DECLARATION OF CONFORMITY	15

1. SAFETY WARNINGS



WARNING Read all safety warnings and all instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference. *The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

1) Work area safety

- a) **Keep work area clean and well lit.** *Cluttered or 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.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD 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 personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Prevent unintentional starting. Ensure the switch is in the off-position connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing 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 jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry 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 dust collection 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 and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- 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 tool's 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, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those 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.*

- Anyone using or performing maintenance work on the machine must be familiar with it and familiar with these instructions in order to be aware of all possible risks. Prevent children, sick or impaired people from accessing the machine. As you stand in the work area, be aware of the presence of children. Observe local or regional safety precautions in your area. This also applies to all provisions relating to safety at the workplace and to health prevention in the workplace.
- The manufacturer must not be held liable if the machine has been modified in an unauthorized manner or in such a way as to constitute ultimate damage.
- Consider the nature of the area where the work is performed.
- After starting the machine, it produces toxic exhaust gases. These gases are invisible and odorless. Therefore, it is imperative never to use the machine in closed or poorly ventilated spaces.
- When cutting, make sure you have good lighting.
- Ensure stability when working on slopes or on uneven surfaces in the presence of moisture, snow or thaw.
- Do not allow unauthorized persons to approach the machine. Visitors and spectators, mainly children, the sick or impaired, must not be allowed access to the work area.
- Take precautions when storing the tool. When the machine is not in use, it must be stored in a dry place, if possible raised or protected, in order to prevent access.
- Always use the right tool for the jobs you want to perform. In this context, it is advisable, for example, to avoid using a tool or a small accessory for work requiring the use of a heavy tool.
- Use the tool only for the purpose for which it was designed.
- Be sure to wear suitable clothing. Clothing should be appropriate and not hinder you in your work. Wear protective clothing that protects against cuts.

- Use personal protective equipment. Safety equipment includes at least: safety shoes, safety goggles, ear protectors, protective gloves, etc.
- Never work with an unsecured cutting tool. There is a risk of injury from projected objects.
- Before starting the hedge trimmer, remove all the keys and inspect if the tool is well assembled and secure.
- Stay in alert at all times. Be attentive to what you are doing. Make use of your common sense. Do not use the tool when you are tired. Never use the brushcutter under the influence of alcohol, drugs or drugs that alter or decrease concentration. Also do not use the tool when you're sick. .
- After using the motorized machine for an extended period, you may be subject to circulation problems in your hands. You have the possibility to extend the duration of use by wearing suitable gloves and taking breaks regularly. Please note that the operating time of the motorized machine is shortened due to discomfort of the user due to poor circulation, too low outside temperature or excessive driving power of the machine during the work.
- Be alerted to damaged components. Check the machine before using it. Damaged components must be repaired or replaced as soon as possible by authorized persons. Defective switches must be replaced by an authorized dealer. Do not use the machine when it cannot be switched off or on by means of a switch. When repairs are required, please contact your nearest dealer.
- Before carrying out any adjustments or maintenance operations, it is essential that the motor is always switched off. This also applies to all work performed at the cutting head. Remove the spark plug from the engine.
- Use only approved components. Only use spare parts identical to those you are replacing during maintenance or repair work. Contact directly your authorized dealer for advice. Do not use metal multi-piece swivel chains and flail blades.
- When transporting and storing the tool, make sure that it is secure; put the protective device on the blade is being transported, stored, cleaned and maintained.
- To avoid damage and injury, be careful when handling and transporting the tool. Do not forget to put the protective device every time on the blade.
- Do not use the appliance when you are tired, sick or under the influence of alcohol or drugs.
- Use only accessories and protections recommended by the manufacturer. It is recommended that your dealer provides a list of recommended accessories if necessary. The use of parts not recommended by the manufacturer may result in injuries, accidents and malfunction of the tool.
- Maintain a good balance when operating the tool. Keep your feet firmly on the ground so as not to fall. Do not lean excessively, do not put yourself in positions that may unbalance you and hurt you. Use the harness supplied with the tool.
- Regularly check if the cutting elements stop when the machine is idling.
- Warning! The use of another cutting head or other accessories and extensions, even when explicitly advised, may constitute a risk of personal injury or property damage.
- The machine must not be used for purposes other than intended. Any use deviating from these purposes must therefore be considered as unauthorized use. The user is solely responsible, thus releasing the manufacturer systematically from any liability, in case of bodily or material damage resulting from such unauthorized use.
- The manufacturer's warranty is void if the machine has been transformed or used in an unauthorized manner and such situation results in damage
- Keep bystanders at least 15mm away from the working area.
- Before use, check the hedge for foreign objects, e.g. wire fences.
- The use of a residual current device with a tripping current of 30 mA or less is recommended.

- Hold the hedge trimmer properly, e.g. with both hands.

Cutting times

Cutting leavesJune and October

Hedges of conifersApril and August

Evergreen conifer hedges ... from May

Intended use

Your hedge trimmer is a device used by a person to trim hedges and shrubs by working with one or more blades arranged linearly and back and forth. A potential hazard exists if the device is used for other purposes. Improper handling of the hedge trimmer increases the risk of injury from blades. Only the use of spare parts and accessories approved by the manufacturer is permitted.

Residual risk

- Cutting from the cutting elements
- Inhalation of particles of material to be cut
- Projection of parts of the cutting blades
- Contact with uncovered cutting head (cut wounds)
- Contact with the tool in operation (injuries by cuts)
- Development of toxic dusts / fumes when used in confined spaces (vomiting / nausea)
- Hearing loss in the absence of correct hearing protection

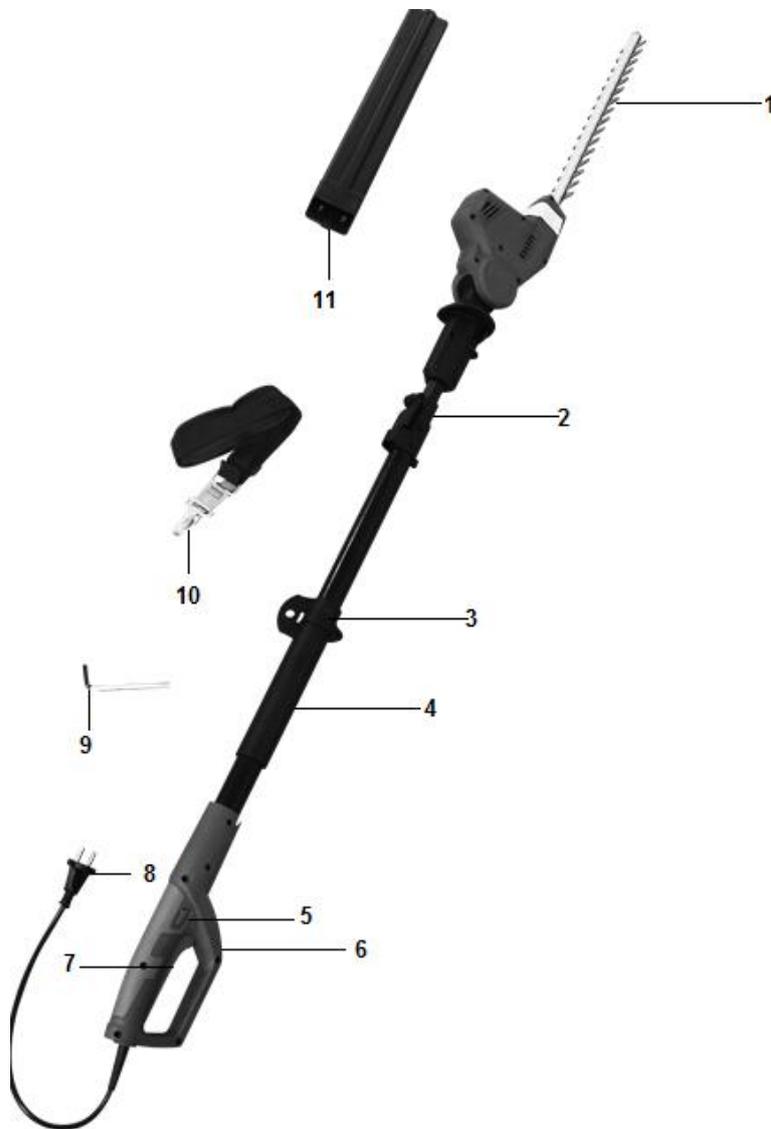
Symbols

	Warning symbol
	Read the instructions manual
	Wear a personal protective equipment including glasses, mask/shield, helmet and hearing protection
	Wear gloves of protection
	Wear anti-slipping shoes
	Beware of falling objects

	<p>Keep bystanders away at least 15m from the area operation</p>
	<p>Do not expose the electric hedge trimmer to the rain or humidity</p>
	<p>Caution : Very dangerous because of electric shock! Keep it away at least 10m from Transmission lines</p>
	<p>Pull the plug out from the socket immediately when the cable is damaged or entangled or split</p>
	<p>Be careful of sharp blades. Sharp blade is dangerous, so keep hands and foot way from the blades</p>
	<p>Guarantee sound power level</p>
	<p>WEEE symbol for disposal</p>
	<p>Tool with Class II protection</p>

2. YOUR PRODUCT

a. Description



- 1- Blade
- 2- Setting of the height of the tool
- 3- Attachment for shoulder trap
- 4- Pole
- 5- Switch lock release button
- 6- Handle
- 7- ON/OFF switch
- 8- Power plug
- 9- Wrench
- 10- Shoulder trap
- 11- Cover protection of the blade

b. Technical data

Model	RAC450EPHT-UK
Voltage	230-240V~, 50 Hz
Power	500W
Protection class	Class II
Speed	1600/min
Weight	3.95kg
Cutting length	460mm
Sound pressure level L_{pa} Uncertainty K	83.28 dB (A) 2 dB (A)
Sound power level L_{wa} Uncertainty K	91.28 dB (A) 3 dB(A)
Guarantee noise value according to Noise Directive	102 dB (A)
Vibration level (at the handle) Uncertainty K	4.885m/s ² 1.5m/s ²



Wear hearing protection while operating the power tool.

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

The declared vibration total value may also be used in a preliminary assessment of exposure.

Warning

The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.

There is the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

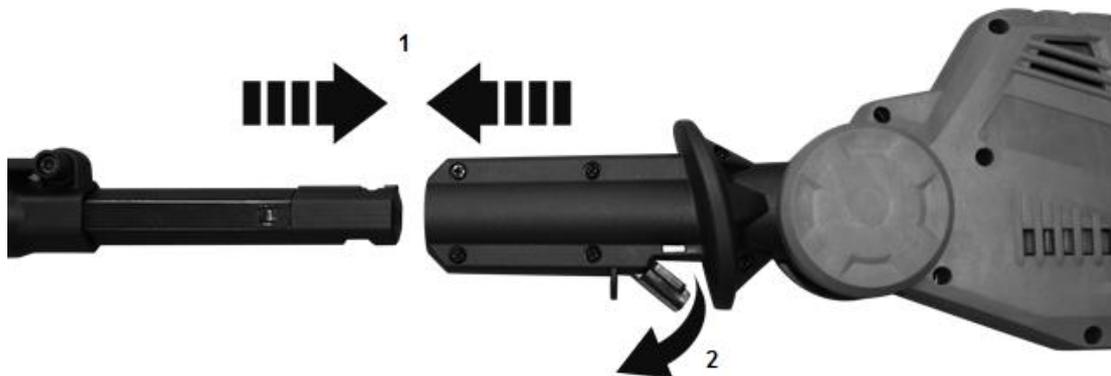
3. ASSEMBLY

Please follow the instructions for assembly carefully. A tool non-correctly assembled will cause accidents and injuries.

Check, after unpacking, if the tool is complete and not damaged. If not complete or damaged, do not use the tool and bring it back to your dealer.

The assembly and the setting of the height must be done with the appliance unplugged, the blade covered with its protection.

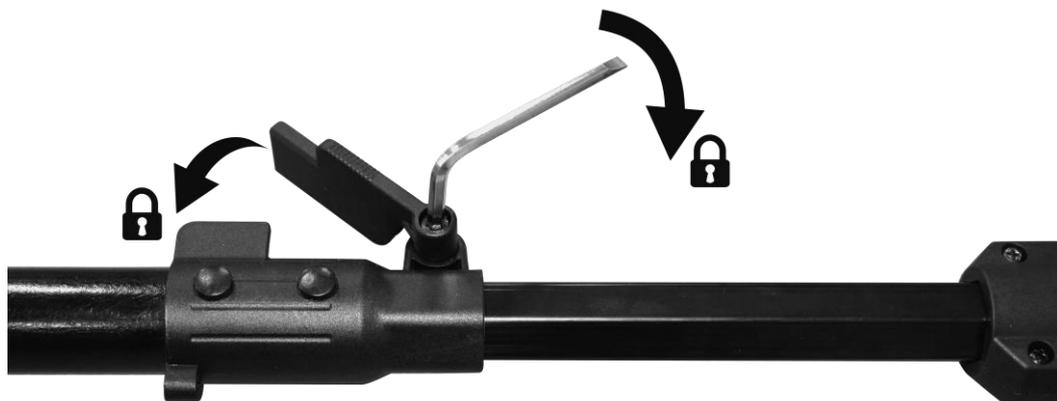
a. Assembly and disassembly of the pole



Insert the pole in the tool (1) and press the tab (2). You should hear a click meaning that the pole is locked in the tool.

To disassemble the tool, unlock the tab (2) and then remove the pole.

b. Setting of the height of the pole



Unscrew, with the provided wrench, the device for the setting of the height of the tool (see above picture). Set the height according to the working to do. Put the device in place and screw it firmly.

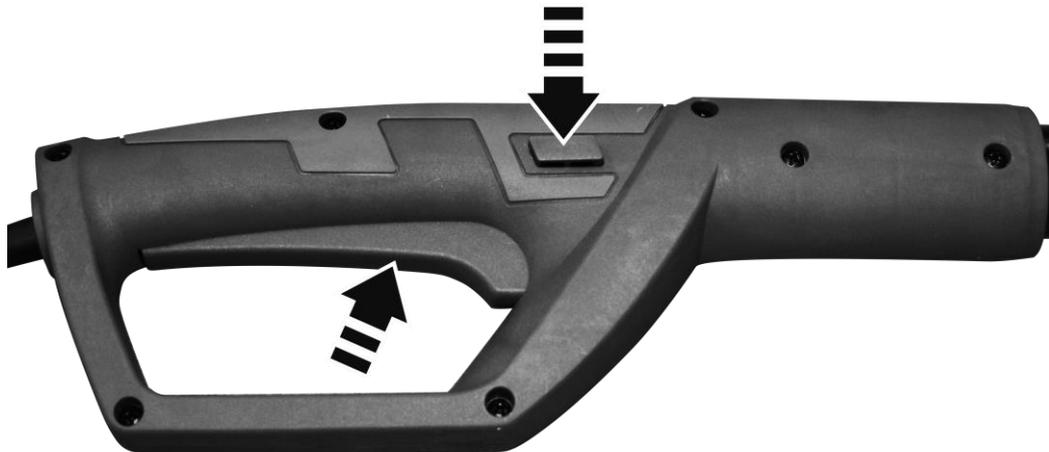
4. USE

- Be sure that the tool is correctly assembled.
- Inspect the working area. Remove all materials and objects which can damage the tool or create accidents.
- Remember that you must wear full protective equipment and put the bystanders far away from the working area.
- Plug the tool into a correct extension cable (when necessary) and then plug this extension cable to a socket (or plug the tool directly into the socket).
- Pay attention to a proper footing. Hold the electric hedge trimmer with both hands firmly and keep an ideal distance to your body.
- Hold the tool correctly and firmly, one hand holding the handle and the other one holding the pole.
- Make sure the extension cord remains out of your work area. Never put the cable over the hedge, where the cable can be cut down by the blades very easily.
- If you cut inadvertently solid objects, and the hedge trimmer is blocked by them, you must switch the electric hedge trimmer off immediately and pull the plug out of the power cord and remove the object.
- Always work in such conditions, that the outlet is put aside. Before starting work, determine the cutting direction.

a. **Switch ON/OFF**

Push and hold (on the left or on the right) the switch-lock release button and then push the On/off switch button.

Stop the operation by releasing the ON/OFF switch.



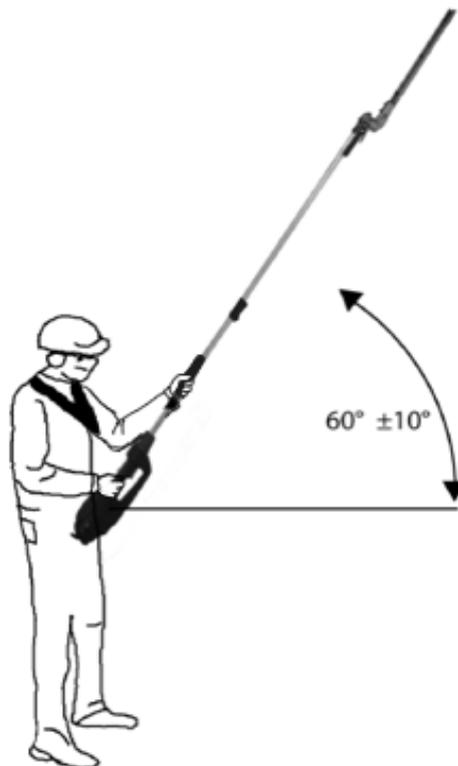
NOTE: if the switch-lock release button is not pushed and held, the ON/OFF switch will not work and the tool will not be able to operate.

b. Cutting techniques

- Move the vertical section of the electric hedge trimmer evenly forward or do curved movements up and down.
- In order to keep long straight lines, we recommend stretching cords.
- It is recommended to cut hedges into trapezoidal shape to avoid lower branches getting naked. Doing so corresponds to the natural growth of plants and hedges can thrive optimally. Cutting reduces new annual shoots, so a dense branching and a good sight protection need to be considered.
- Cut the edges of a hedge first. Move the hedge trimmer to cut the part which grows greatly from bottom to top. If you cut from top to bottom, the thinner branches will move to the outside; thin places or holes may arise.
- Then cut the top of the hedge, just like a roof or round shape.
- Trim out the young plants to the desired shape. The main stem should be intact and remained until the hedge reaches the proposed height. All other shoots can be cut at half.

c. Safe working

- To guarantee a safe working, put the tool in a position of $60^\circ \pm 10^\circ$, as described in below illustration.
- Never use the electric hedge trimmer when you are standing on a ladder or a stable ground.
- Do not begin to cut without enough preparation. Otherwise it could lead to danger to you or others.



5. MAINTENANCE AND STORAGE

Maintain your tool regularly. This will keep your tool in good working order and extend its lifespan. Do not use abrasive, caustic agents to clean the tool. These types of products will damage your tool.

Do not perform repairs by yourself. Repairs and inspection must be carried out by a competent person or at an authorized service center (please contact your service dealer).

a. After each use

Check the blade, cable and body of the tool (cleanliness, wear, damage, etc.). If you notice damage, wear, or malfunction, do not use the tool and bring it to a qualified service for inspection and reparation.

b. Maintenance

There is no specific maintenance to be performed by the user. After each season, please bring the tool to an authorized service center to perform a general cleaning and the following operations:

- Lubrication of the blade
- Mechanical check of motor, spindle, bearings and housing.
- Electrical check.
- Electrical and mechanical performance.

c. Spare Parts

You can order the spare parts directly from our Service Center. Please place your order according to the type of the machine and the parts number given in the explosion drawing.



d. Storage

- After use and cleaning, please store your tool.
- Store the tool in a clean, dry place, preferably in its box.
- During transport and storing always put the protection cover on the blade.
- The tool must be stored away from children and pets.
- Avoid exposing the tool to direct sunlight.

6. DISPOSAL



Electrical products should not be discarded with household products. According to the European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

7. TROUBLESHOOTING

When you meet a problem when operation, please use the following table to find a solution for resolve this problem

If you cannot find your problem in this, please contact our Service Center.

PROBLEMS	POSSIBLE REASON	SOLUTIONS
The tool does not start	Your electrical installation has problem or it is damaged	Call a qualified technician to inspect and modify your electrical information
	Problem with the socket, cable, wire, plug and fuse, switch, etc.	Call a qualified technical for inspection and make repair/replacement when necessary
	Part of the tool is damaged	Do not use the tool and bring it to our service center for repair
Interruptions when operation	damaged electricity cable	Check power cable, if necessary change through our Service Center
Blade turning hot	dull blades	(Exchange service center)
	blades got notches	Check the blade beam or change the blade in our service center
	Too much friction because the blades lack of lubrication oils	Lubricate the blade beam

8. CE DECLARATION OF CONFORMITY



EC Declaration of conformity

BUILDER SAS

32, rue Aristide Bergès - ZI 31270 Cugnaux – France declare that the machine

Designation: ELECTRIC POLE HEDGE TRIMMER

Model: RAC450EPHT-UK

Serial number:

Is in conformity with the European Directives:

Machine Directive 2006/42/EC

EMC Directive 2014/30/EU

Noise emission Directive 2000/14/EC Annex V + 2005/88/EC

Sound power level:

Guaranteed: 102dB(A);

Measured: 98.28dB(A)

This product is also in conformity with the following standards:

EN60745-1:2009+A11:2010

EN ISO12100:2010

EN ISO10517:2009+A1:2013

EN 55014-1:2006+A1:2009+A2:2011

EN 55014-2: 2015

EN61000-3-2: 2014

EN61000-3-3: 2013

The technical documentation is kept by: Olivier Patriarca

Philippe MARIE / PDG

Cugnaux, le 03/12/2018

