



## ELECTRIC LAWNMOWER

**RAC1200EM-UK**

WARNING: READ THIS MANUAL CAREFULLY BEFORE USE IT

BUILDER SAS

32, rue Aristide Bergès - ZI 31270 Cugnaux – France

MADE IN PRC 2018



# Contents

- I- Parts list
- Technical data
- Safety instructions
- Getting started
- Operation
- Maintenance
- Guarantee

## II- **Parts list**

1. Upper handle
2. Lower handle
3. Switch box
4. Grass collection box
5. Wheels
6. Motor cover



### III- Technical data

Voltage 230-240V~ 50Hz

Power rating 1200W

No load speed 2450min<sup>-1</sup>

Cutting height 25/45/65mm

Max cutting width 320mm

Weight of tool: 7 kg

This tool is double insulated. There are two independent barriers of insulation to protect you from the possibility of electric shock

## **NOISE DATA**

Declared guaranteed sound power level: 96dB (A)

Sound pressure level: 80,1 dB(A) K= 3 dB(A)

Sound power level: 92,2 dB(A) K= 2,02 dB(A)

The sound intensity level for operator may exceed 85dB(A) and ear protection measures are necessary

Vibration value: Max. 3,24 m/s<sup>2</sup> K= 1,5 m/s<sup>2</sup>

## **IV – Safety instructions**

IMPORTANT READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

Safe operating practices for electrically powered lawnmowers

### Training

- a) Read the instructions carefully. Be familiar with the controls and the correct use of the machine.
- b) Never allow children or people unfamiliar with these instructions to use the machine. Local regulations can restrict the age of the operator.
- c) Never operate the machine while people, especially children, or pets are nearby.
- d) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

### Preparation

- a) While operating the machine always wear substantial footwear and long trousers. Do not operate the machine when barefoot or wearing open sandals. Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
- b) Thoroughly inspect the area where the machine is to be used and remove all objects which can be thrown by the machine.
- c) Before using, always visually inspect to see that the blade, blade bolt and the blade assembly are not worn or damaged. Replace worn or damaged components in sets to preserve balance. Replace damaged or unreadable labels.

d) Before use check the supply and extension cord for signs of damage or aging. If the cord becomes damaged during use, disconnect the cord from the supply immediately. **DO NOT TOUCH THE CORD BEFORE DISCONNECTING THE SUPPLY.** Do not use the machine if the cord is damaged or worn.

## Operation

- a) Operate the machine only in daylight or in good artificial light.
- b) Avoid operating the machine in wet grass.
- c) Always be sure of your footing on slopes.
- d) Walk, never run.
- e) Mow across the face of slopes, never up and down.
- f) Exercise extreme caution when changing direction on slopes.
- g) Do not mow excessively steep slopes.
- h) Use extreme caution when reversing or pulling the machine towards you.
- i) Stop the blade(s) if the machine has to be tilted for transportation when crossing surfaces other than grass, and when transporting the machine to and from the area to be used.
- j) Never operate the machine with defective guards or shields, or without safety devices, for example deflectors and/or grass collector, in place.
- k) Switch on the motor carefully according to instructions and with feet well away from the blade(s).
- l) Do not tilt the machine when switching on the motor, except if the machine has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part, which is away from the operator.
- m) Do not start the machine when standing in front of the discharge opening.
- n) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- o) Do not transport the machine while the power source is running.
- p) Stop the machine, and remove plug from the socket. Make sure that all moving parts have come to a complete stop:
  - whenever you leave the machine,
  - before clearing blockages or unclogging chute,
  - before checking, cleaning or working on the machine,
  - after striking a foreign object.

Inspect the machine for damage and make repairs before restarting and operating the machine;

If the machine starts to vibrate abnormally (check immediately):

- inspect for damage,

- replace or repair any damaged parts,
- check for and tighten any loose parts.

#### Maintenance and storage

- a) Keep all nuts, bolts and screws tight to be sure the machine is in safe working condition.
- b) Check the grass collector frequently for wear or deterioration.
- d) On machines with multi blade, take care as rotating one blade can cause other blades to rotate
- e) Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

#### Additional instructions

- Do not use this tool in wet weather.
- Do not use the tool in bad weather conditions (rain, thunderstorms, storms, etc.).
- The handling / connection of the cables must be dry.
- Use a residual current device of 30mA (RCD).
- Always avoid contact between an electrical outlet or cable and a wet area (puddle or wet grass).
- The connections between the cables and the plugs must be sealed. Use extension cords only with commercially available waterproof plugs or standards.
- The power supply cables must not be of a quality inferior to type H05RN-F. H05RR-f.H05WF.H05VVH2-F. for outdoor use, with a minimum section of 1.5 m<sup>2</sup>.
- Secure the cable to the hook before turning on the equipment.
- The permanent connection of any electrical device in a building must be done by a qualified electrician in accordance with the electrical standards in force.
- An incorrect connection can cause serious injury or death.
- Before connecting the appliance, check that the plugs and extension cords are in good condition. Do not use the appliance if the appliance is damaged or worn.
- Never use the appliance if the guards are defective or without safety devices, for example the grass catcher in place.
- Use only an extension cord attached to a coupler according to the IEC 60320-2-3 standard.
- Always direct the cable away from the device.
- Mow by day or under adequate artificial light.
- Avoid operating the unit in wet grass or in the rain.

- Never ride the power cable with the lawn mower.
- When mowing, the cable should always be behind the mower and in the area where grass has already been cut.
- Use the cable hook to prevent unexpected disconnection of the cable.
- Make sure the plug is inserted correctly and do not force the plug.
- Never pull the lawn mower by its power cable, and never pull the cable out of the socket.
- Do not expose the cable to sources of heat. Do not allow it to come into contact with solvents, oil, fuels, or smudged objects.
- If a cable is damaged during use, disconnect the plug immediately. **DO NOT TOUCH THE CABLE BEFORE DISCONNECTING THE SOCKET.**
- Unplug the unit from the power sources:
  - o Whenever you leave the device
  - o Before solving a problem.
  - o Before checking, cleaning or working on the unit.
  - o If the unit starts to vibrate abnormally
- Always ensure your position on the slopes.
- Mow facing slopes, never up and down.
- Be extremely careful when changing direction on slopes.
- Do not mow on slopes of more than 20 °.
- Walk, never run, do not get pulled by the lawn mower.
- Be extremely careful when pulling the lawn mower toward you.
- Stop the engine if you must tilt the lawnmower for transport, when crossing areas other than grass, and when transporting it to another area to be mowed.
- Never operate the lawn mower with defective protections, or without a safety device, such as a deflector or grass catcher that is not in place.
- Start the engine with the switch on, cautiously as instructed, and feet well away from the blade.
- Do not tilt the mower when starting the engine.
- Start the engine on a flat surface with no obstacles or grass too high.
- Do not put your hands or feet under rotating parts.
- When working on the grass catcher or on the ejection duct, stop the engine.
- Never lift or carry a lawnmower with the engine running.

- When mowing, always keep a safe distance from the rotating blade. This distance is the length of the handlebars.
- After a breakdown, stop the engine immediately, do not continue mowing, take the machine to an authorized service center and ask qualified personnel to eliminate the problem.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

#### Residual risks

Even if you use this product in compliance with all safety requirements, the potential risks of injury and damage remain. The following hazards may arise in the structure and design of this product.

- There are adverse health consequences resulting from the emission of vibration if the product is used for long periods of time or not properly managed and properly maintained.
- There are risks of injury and property damage due to attachments or broken the sudden impact of hidden objects when using cutting.
- Risk of injury to persons and property caused by flying objects.
- Prolonged use of this product exposes the operator to vibrations and can produce so-called "white finger" disease. To reduce the risk, wear gloves and keep your hands warm. If any of the symptoms of "white finger syndrome" occur, seek immediate medical attention. Symptoms of "white finger" include numbness, loss of sensitivity, tingling, tingling, and pain, loss of strength, color changes or skin condition. These symptoms usually appear on the fingers, hands or wrists. Risk increases at low temperatures.

#### Intended use

This lawnmower is designed for natural grass mowing. Any other use is prohibited.

It is suitable only for private use in a garden or plot. Lawnmowers designed for private plots or gardens are those used for the maintenance of grassy areas and private lawns and should not be used in public areas, parks, sports, agricultural or forest areas.

#### **ADDITIONAL SAFETY RULES FOR LAWN MOWER**

Read the instructions carefully. Be familiar with the controls and the proper use of the appliance.

Never allow children to use the appliance.



Never allow people unfamiliar with these instructions to use the appliance. Local regulations may restrict the age of the operator.

Never operate the appliance with people, especially children, or pets are nearby.

The operator or user is responsible for accidents or hazards occurring to other people or their property.

While operating the appliance, always wear substantial footwear and long trousers. Do not operate the appliance when barefoot or wearing open sandals.

Thoroughly inspect the area where the appliance is to be used and remove all stones, sticks, wires, bones, and other foreign objects.

Before using, always visually inspect to see that the rotating parts and cutter assembly are not worn or damaged. Replace worn or damaged parts in sets to preserve balance.

Operate the appliance only in daylight or in good artificial light. Avoid operating the appliance in wet grass, where feasible. Always be sure of your footing on slopes. Walk, never run. Always work across the face of slopes, never up and down.

Exercise extreme caution when reversing or pulling the appliance towards to you.

Do not operate the appliance on excessively steep slopes.

Use extreme caution when reversing or pulling appliance towards you.

Stop the rotating parts if appliance has to be tilted for transportation. Do not operate the cutting means when crossing surfaces other than grass, and when transporting the appliance to and from the working area.

Never operate the appliance with defective guards or shields, or without safety devices, for example deflectors and/or catchers in place.

Switch on the motor according to instructions and with feet well away from rotating parts.

Do not tilt appliance when switching on the motor, except if the appliance has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part, which is away from the operator. Always ensure that both hands are in the operating position before returning the appliance to the ground. Do not put hands or feet near or under rotating parts.

Never pick up or carry an appliance while the motor is running.

Pull the plug from the socket:

- Whenever you leave the machine.

Before clearing a blockage.

- After striking a foreign object. Inspect the appliance for damage and make repairs as necessary.
- If the appliance starts to vibrate abnormally, check immediately.

When the machine is at work in the thick bushes or runs into obstacles it can't cut down, the blade will be stalled so that the machine temperature and current will increase. When the temperature is too high or the current is too large, the overload protection device installed inside the machine will automatically shut off the power to stop the machine ( main purpose is to protect motor and prolong motor life ). At this moment, let go of the trigger and disconnect power supply of the machine, let the machine cool in some time ( 1~2 mins) and then restart switch, the machine can rework.

### Symbols

**The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use**



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.



Denotes risk of personal injury, loss of life, or damage to the tool in case of non-observance



Use eye protection

Use ear protection



Conforms to all regulatory standards in the country in the EU where the products is purchased



Wear sturdy, non-slip footwear



Read the user manual



Use protective gloves



Do not expose to rain



Risk of projections. Keep bystanders away



This product is double insulated electrically



Disconnect from mains power immediately if the power cord becomes damaged.



**Beware of sharp blades. Blades continue to rotate after the motor is switched off-**

**Remove plug from mains before maintenance or if cord is damaged.**



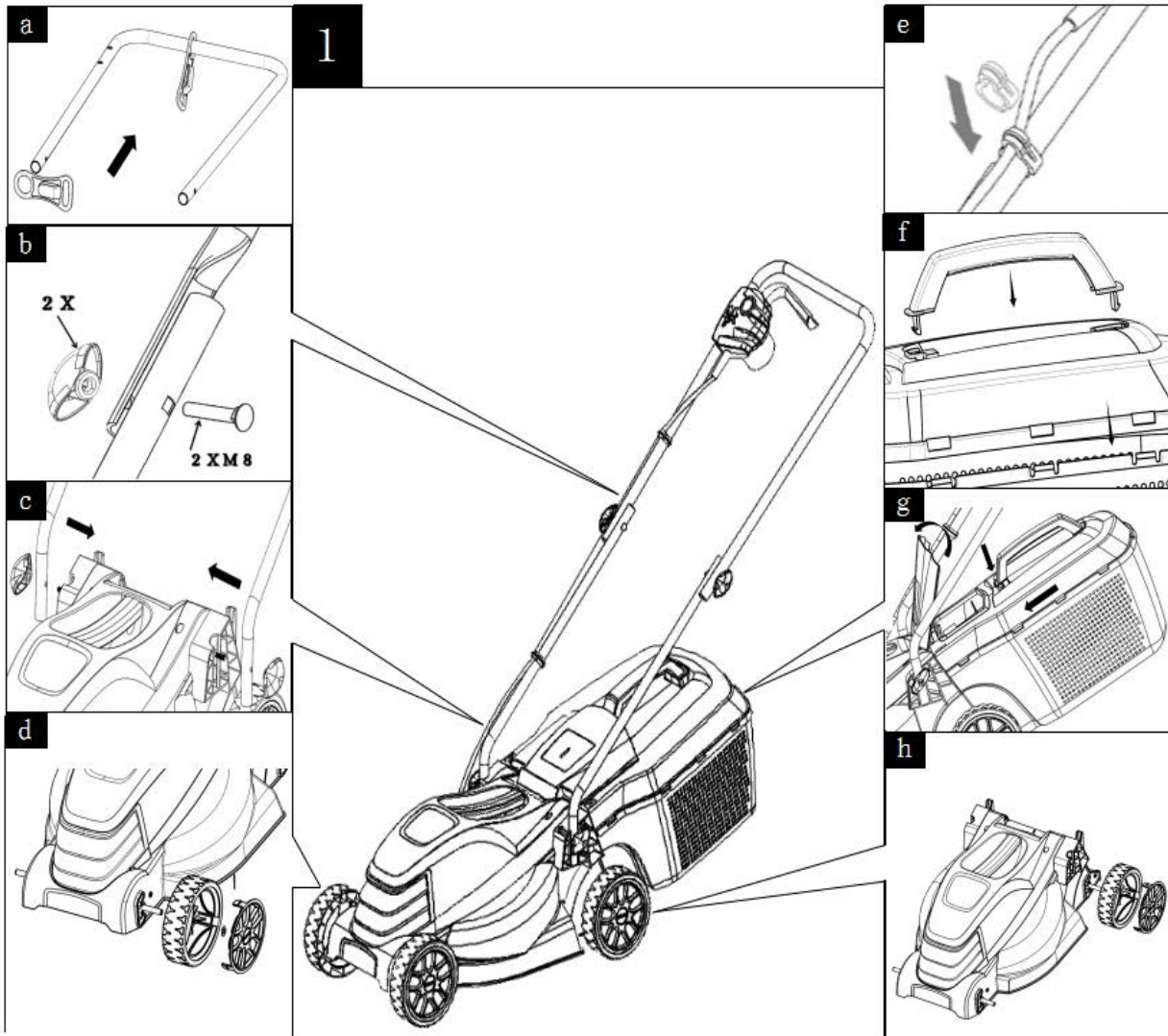
**Keep supply flexible cord away from cutting mains**

## V-ASSEMBLY INSTRUCTIONS

### Preparation:

1. Put the cable hook on upper handle.(Fig.1a)
2. Connect upper and lower handles with supplied screws and knobcs.(Fig.1b)
3. Insert the handles into the mower body.(Fig.1c)

4. Fit each wheels over the axles, secure in place with the “R” pins (Fig.1d)
5. Fix the cable holders.(Fig.1e)
6. Grass collecton box assembly. Assemble two halves and fix them together.(Fig.1f)
7. Lift the flap and place the grass box over the lugs.(Fig.1g)
8. Press the wheel covers into place. (Fig.1h)



## CUTTING HEIGHT ADJUSTMENT

To obtain the desired cutting height, the front and rear axles are repositioned on the underside of the mower housing.



**Warning!** Disconnect the mower from the power supply and ensure the blade has stopped coasting before adjusting the height.

1. To adjust the front wheel cutting height position (fig. 2a)
  - 1) Turn the mower upside down.
  - 2) Pull the wheel axle towards the front of the mower.
  - 3) Locate the wheel axle into the desired cutting height adjustment position.



**Note:** Make sure that both front right and left wheels are located in the same cutting height adjustment position.

2. To adjust the rear wheel cutting height position (fig. 2b)
  - 1) Turn the mower on its side.
  - 2) Pull the rear wheel axle towards the mower's catcher flap.
  - 3) Locate the wheel axle into the desired cutting height adjustment position.



**Note:** Make sure that both rear right and left wheel are located in the same cutting height adjustment position.

3. Cutting height positions (fig.2c)
  - 1) 20mm (lowest cutting height position)
  - 2) 40mm
  - 3) 60mm(highest cutting height position)



## VI-OPERATING

### Connect to power supply

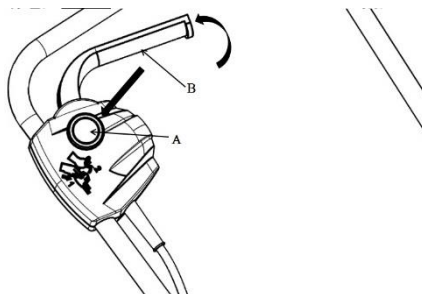
**Warning!** Before connecting to the mains supply, always check the switch is in off position. Connect the plug into the RCD protected power supply.

### Starting

On/Off switch fig.3)

Caution! Do not start the mower if it is standing in long grass. Press the safety button (A) of the switch assembly and then pull the switch lever (B) against the bar. Keep the switch lever held whilst releasing the safety button. To stop the mower release the switch lever and it automatically returns to its off position.

3

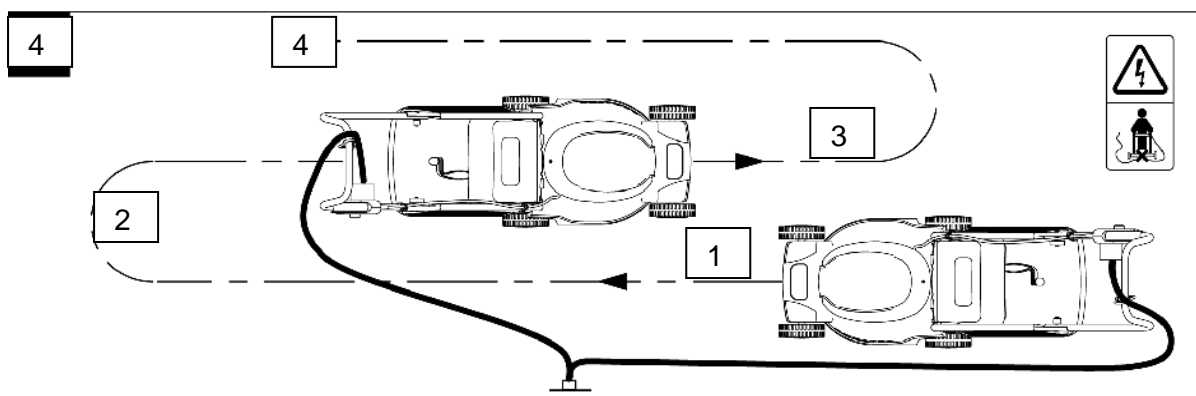


## Mowing (fig.4)

We recommend to use your mower as outlined in this section in order to achieve optimum results and to reduce the risk of cutting the mains cable.

- Place the bulk of the mains cable on the close to the starting point.
- Switch the mower on as described above.
- Proceed as shown in fig.4
- Move from position 1 to position 2
- Turn right and proceed towards position 3
- Turn left and move towards position 4
- Repeat the above procedures as required.

**Warning!** Do not work towards the cable.



### **Blade maintenance(fig.5)**

- Regularly remove grass and dirt from the blade.
- At the beginning of the gardening season, carefully examine the condition of the blade.
- If the blade is very blunt, sharpen or replace the blade.
- If the blade is damaged or worn, fit a new blade.

**If the blade is slipping, put the screwdriver into the location hole, tighten the blade by wrench. see fig.6 and fig.7**

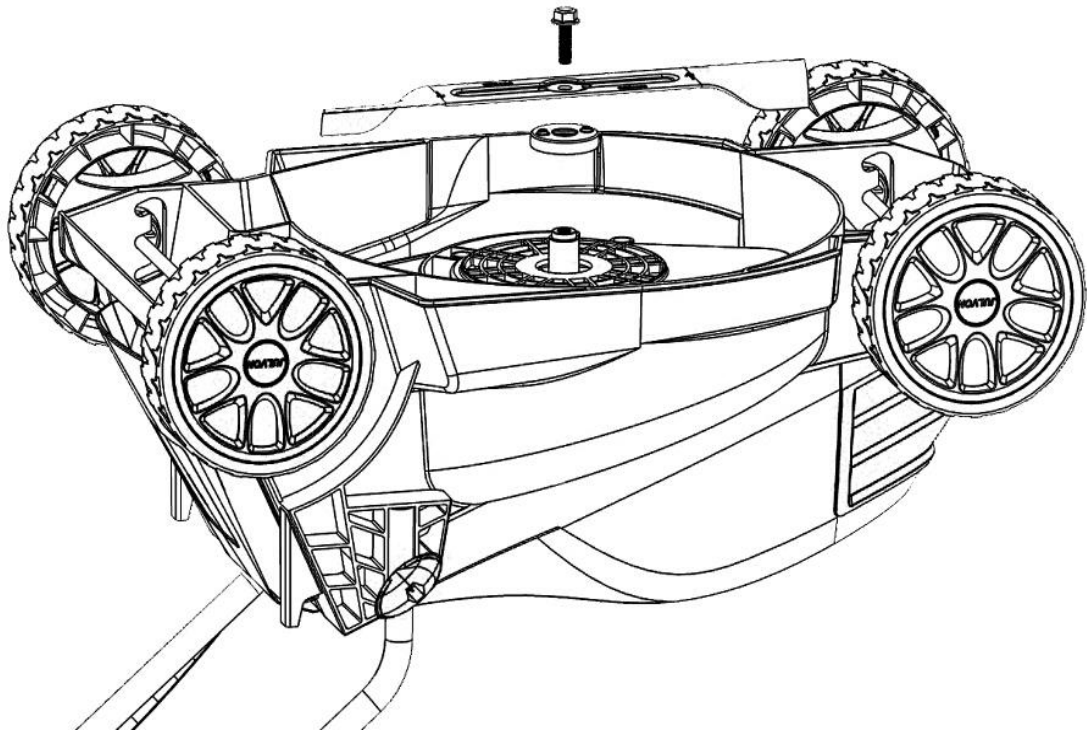
**Warning!** Observe the following precautions:

- Disconnect the mower from the mains and wait until the blade has stopped rotating before proceeding.
- Be careful not to cut yourself. Use heavy-duty gloves or a cloth to grip the blade.
- Only use the specified replacement blade.
- Do not remove the impeller (A)for any reason.

### **To replace the blade:**

- Turn the mower onto its side.
- Place bushing into shaft of motor
- Place blade, flat pad and spring washer alignly
- Place blade screw into the holes
- Tighten blade screw with sleeve.





## **MAINTANCE**

1. Keep all nuts, bolts and screws tight to be sure the lawn mower is in a safe working condition.
2. Check the catcher frequently for wear or deterioration.
3. Replace worn or damaged parts for safety.
4. Only use the replacement blade, blade bolt and impeller specified for this product.
5. Be careful during adjustments of the lawn mower to prevent entrapment of the fingers between moving blade and fixed parts of the machine.
6. Oil the wheel pins.
7. Store the lawn mower in a dry place.

## **VII-Guarantee**

1. This product has been manufactured to a high quality standard. It is guaranteed against defects in materials and workmanship for 12 months from purchase. Please retain your receipt as proof of purchase.
2. If the product is found to be defective within the relevant time period, we will either replace all defective parts or at our discretion, replace the unit free of charge with the same item or one of a greater value and/or specification.
3. This guarantee does not cover defects caused by or resulting from:
  - a) Misuse, abuse or neglect
  - b) Trade, professional or hire use;
  - c) Damage caused by foreign objects, substances or accident.
4. This guarantee is offered in addition to and does not affect, your statutory rights, which may additionally enable you to cancel the contract.



## DISPOSAL

Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU 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.

## EC DECLARATION



EC Declaration of conformity

### **BUILDER SAS**

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

**Designation: ELECTRIC LAWNMOWER**

**Model: RAC1200EM-UK**

**Serial number:**

Is in conformity with the European Directives:

Machine Directive 2006/42EC

EMC Directive 2014/30/EU

ROHS directive 2011/65/EU

This product is also in conformity with the following standards:

EN 60335-1:2012/A11:2014

EN 60335-2-77:2010

EN 62233:2008

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

EN 55014-2:2015

EN 61000-3-2:2014

EN 61000-3-3:2013

Philippe MARIE / PDG

A handwritten signature in black ink, appearing to be 'Philippe MARIE', written over a faint dotted grid background.

Cugnaux, le 04/12/2018

Responsible of technical file: Mr Olivier Patriarca