



CORDLESS ELECTRIC CUTTER
PROTURF



USE AND MAINTENANCE INSTRUCTIONS

Please read this manual carefully before using the device
and keep it safe with the product.

TRANSLATION OF ORIGINAL AND COMPLETE INSTRUCTIONS

MEANING OF WARNING AND DANGER SYMBOLS

Safety instructions, which must be followed to prevent physical harm, are identified by the following symbols:

CAUTION HAZARD



Indicates operations that can cause generic injuries or trigger malfunctions or damage to the equipment and/or materials if not carried out correctly; particular attention and adequate preparation are therefore required.

CAUTION ELECTRICAL HAZARD



Indicates operations that can cause electrical injuries or trigger malfunctions or damage to the equipment and/or materials if not carried out correctly; particular attention and adequate preparation are therefore required.

DO NOT



Indicates PROHIBITED operations.

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EC - DECLARATION OF CONFORMITY

PRODUCT MANUFACTURED BY:
RASOR ELETTROMECCANICA SRL

Via Giannetto Mattei, 41/43 - 20044 Arese- (MI) - ITALY

Model: PROTURF

Rasor Elettromeccanica s.r.l. declares, under its own responsibility, that the aforementioned products, to which this declaration refers, comply with the Directives on the approximation of the laws of EEC member states relating to:

- Machinery 2006/42/EC;
- Electromagnetic Compatibility 2014/30/EU
- RoHS Directive 2011/65/EU

Milan, 10/10/2025.



Mr Lorenzo Spinelli
CEO

GENERAL INFORMATION

1 GENERAL INFORMATION

1.1 Important safety information

1.1.1 General warnings

- The product user must store the following instructions carefully and follow them closely, as improper use of the device can harm people or damage the product or property, exempting **Rasor Elettromeccanica S.r.l.** from any liability.
- The following instructions must be kept with the product to which they refer and be stored in a place where users can access and view them.
- Reproduction, in whole or in part, of the illustrations or text given in these instructions is prohibited. **Rasor Elettromeccanica S.r.l.** reserves the right to amend the documentation without prior notice.



CAUTION HAZARD

The product must be started and used solely in compliance with all safety guidelines given in these instructions. Failure to follow these instructions, or any product alteration not carried out by our authorised technicians, will void the warranty and relieve the manufacturer of any liability arising from harm to people, damage to property or to the product itself.



CAUTION HAZARD

Check that electrical and mechanical parts are in excellent working order before starting the device.
Use only original spare parts supplied by Rasor Elettromeccanica S.r.l.
Any operation required (maintenance or repair) must be carried out by qualified personnel after having first removed the battery to prevent accidental start-up, which could otherwise cause harm to people or property. Switching the product off is not sufficient.
Users must follow the accident-prevention regulations in force in their country and must use adequate protection when using and maintaining the product.



CAUTION HAZARD

It is particularly important to keep the product out of reach of children and pets.
The product must be used away from heat, wet and humidity.
Clean the product using a dry cloth only. Disconnect the battery before cleaning.
During normal work operations, do not wear loose-fitting clothing or accessories that may be a source of risk.
Wear metal mesh safety gloves and safety goggles during the normal work cycle.



CAUTION HAZARD

The cordless electric cutter also works without a safety guard. This guard must NEVER be removed.
Metal parts may be hot after use.

1.2 Prohibitions

DO NOT



- The product and its electrical or mechanical connections **MUST NOT** be tampered with or modified.
- It is **FORBIDDEN** to remove parts of the product.
- It is **FORBIDDEN** to use the product in areas at risk of explosion and/or fire.
- It is **FORBIDDEN** to use the product or accessories with wet hands. Risk of electrocution.

1.3 Handling and storage

The product must be stored in its original packaging and in a dry, covered location away from heat sources, dirt and humidity. The product can be stored between 0° and 55°C.

1.4 Limits of use

All Rasor Elettromeccanica products are tested before being shipped to the customer to guarantee safe and long-lasting operation.

The product must be used solely for its intended purpose. Any other use is forbidden and constitutes a risk.

The product operates at a maximum temperature of 55°C.

The protection rating of the device is IP 65.

1.5 Technical specifications

Model	PROTURF
Blade diameter	86 mm, with carbide fixed blade
Blade supplied	86THSSTF, 8 sided, HSS Steel, Teflon® Coated
Blade speed	700-900-1100 r.p.m. (adjustable)
Cutting capacity	25 mm (backing)
Motor power	DC 21V, 450 W BRUSHLESS
Battery	21 V Li-Ion®, 4.0 Ah rechargeable with LED charge indicator
Battery Charge time	2 h
Weight (with battery)	2200 gr.
Total weight (with packaging)	5400 gr.
Minimum brightness for use	200 LUX
Start-up vibration	< 2.5 m/sec 2
Usage temperature	0 - 55° C
Usage humidity	10%-95% without condensation

1.6 Noise

The maximum sound pressure level emitted is approximately 60 dB (A). Airborne noise was detected in compliance with EN ISO 15744:2008. The noise levels emitted by the device at various detection distances (with no soundwave filtration system) vary by a few db (A).

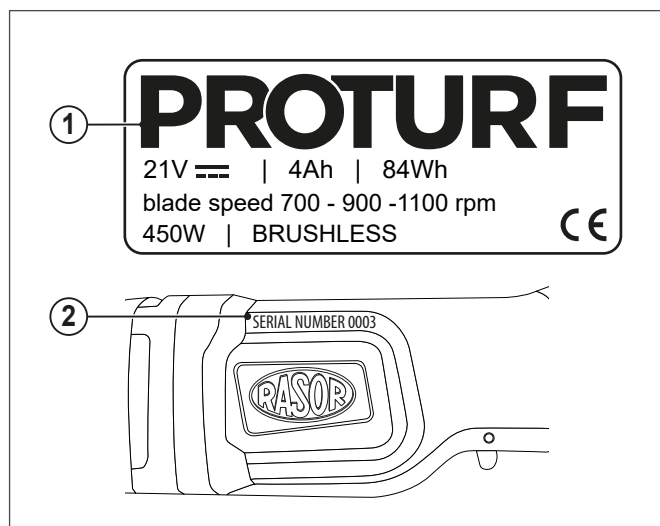
1.7 Limitation of liability

The manufacturer declines all liability for any damage and malfunctions arising from:

- failure to follow the instructions given in this manual
- repairs not carried out in a workmanlike manner (the use of non-original spare parts and accessories can adversely affect product operation)
- damage caused by arbitrary changes by the user or by unauthorised interventions
- failure to carry out maintenance as indicated
- use of non-original batteries
- damage or defects caused by improper use
- use by untrained or unauthorised personnel
- damage or defects caused by failure to follow use and maintenance instructions.

1.8 Identification data

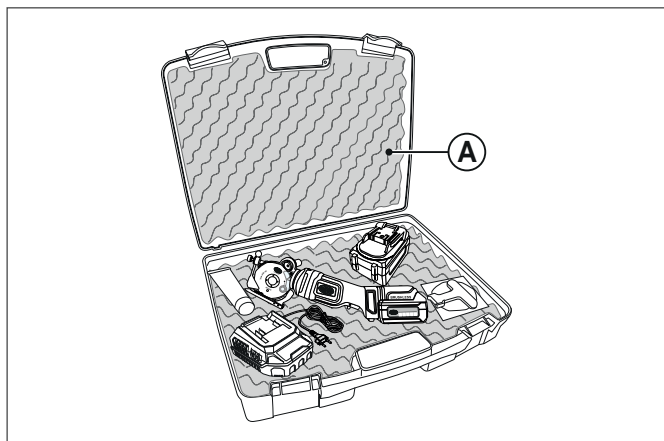
A nameplate (1) stating the product data is applied to the PROTURF. The serial number is engraved onto the machine (2). Ensure the nameplate has been applied to the product; if not, inform the manufacturer and/or retailer immediately. Devices without the nameplate must not be used, or the manufacturer's liability will be voided.



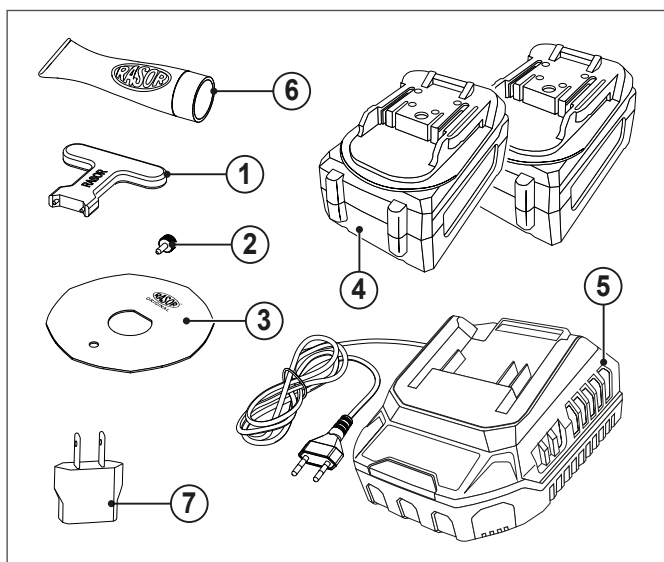
GENERAL INFORMATION

1.9 Package contents

The **PROTURF** is delivered with the batteries, charger and a set of accessories in a plastic case (A).



The following accessories are also included:



- 1 Butterfly key for removing/fitting the blade
- 2 Blade assembly/disassembly punch
- 3 8-sided Teflon®-coated HSS steel blade
- 4 2 x 21 V Li-Ion® batteries, 4.0 Ah
- 5 Charger with EU plug
- 6 Gear grease
- 7 EU-US plug adapter

1.9.1 Information on batteries

Following a few simple guidelines extends the lifespan of the batteries supplied:

- charge the battery fully before using it for the first time
- recharge when it is almost flat (approximately 10-20% charge remaining). The battery cells can be recharged up to 250 times
- avoid letting the battery go completely flat or overcharging it
- recharge at room temperature (+18/21°C)
- do not leave the battery in direct sunlight
- if not used for a prolonged period, store the battery with approximately 50% charge remaining at a room temperature of 5/10°C

- recharge at least every 12 months.

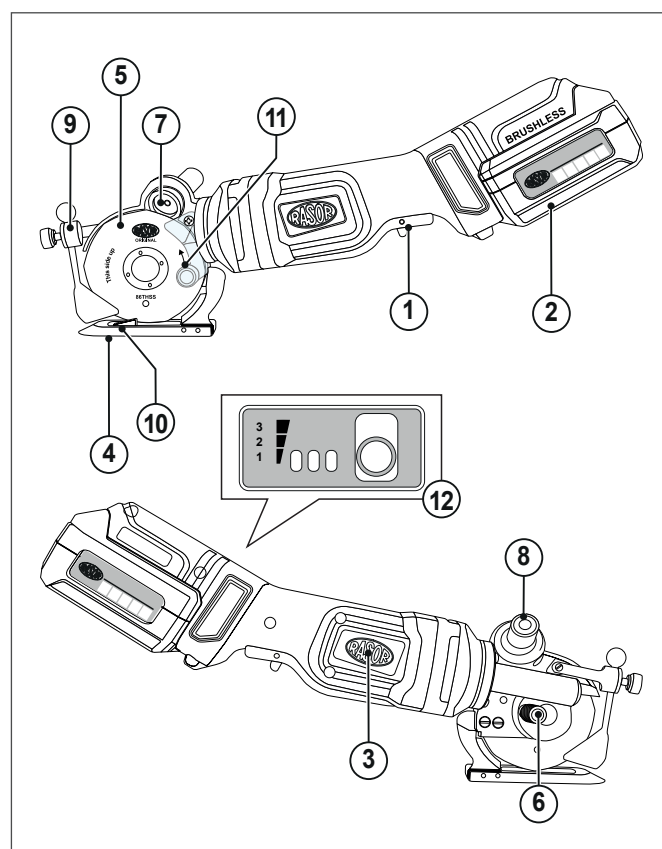
1.10 Description of the device

The **PROTURF** cordless electric cutter has been designed, built and assembled for cutting all types of synthetic sports and ornamental turf, with any kind of backing and any type of fibre/pile, with no height or thickness limits – using a rotary blade.

The equipment must not be used:

- in environments with explosive atmospheres;
- in the presence of fine dust or corrosive gases;
- for cutting plastic, metal or wood materials;
- for cutting turf with sand or rubber.

Any use of the PROTurf cordless electric cutter for purposes other than those indicated above is prohibited and constitutes a hazard.



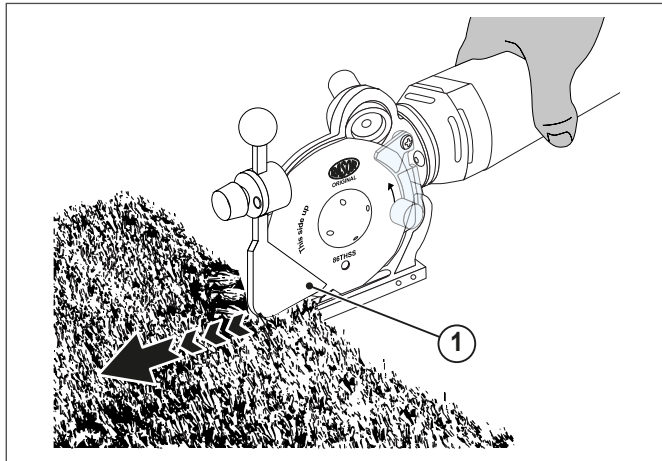
- 1 Ignition lever
- 2 Li-ion 21V battery
- 3 Brushless motor housing
- 4 Steel base
- 5 Polygonal steel blade
- 6 Greaser
- 7 Emery wheel
- 8 Sharpener button
- 9 Fibre opening system
- 10 Carbide fixed blade
- 11 Rear protection
- 12 3-speed adjuster

2 USE

2.1 Cutting

To use the cordless electric cutter:

- Disconnect the battery from the charger (if charged);
- Attach the battery to the motor, fitting it as indicated on the battery itself;
- Position the synthetic turf on top of the steel foot;
- Adjust the fibre opening system to the thickness of the turf (1). A very low setting ensures a minimum amount of cut fibres; or loosen the front knob and let the fibre opening rod fall by gravity;
- The fibre opening system allows the pile to be lifted (especially in long-pile turf), cutting the backing and not the pile;
- Move the safety lever and start the machine by pressing the trigger button;
- Push the cordless electric cutter in the desired direction, while keeping the synthetic turf as taut as possible.



WARNINGS

Apply pressure uniformly to the cordless electric cutter.



2.2 Protection

PROTurf cordless electric cutters have electronic protection in case of overload.

This protection stops the machine if it cuts material that is too thick or too hard.

It also trips when the temperature is too high.

Once the machine has stabilised again, normal operation is resumed.

2.3 Charging the batteries

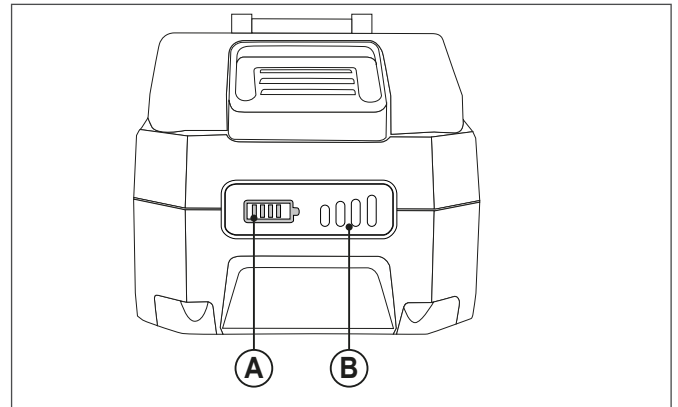


CAUTION

Always check the charger voltage against the mains voltage for the country of use.

2.3.1 Check the battery charge level

On pressing the button (A) the LEDs switch on indicating the battery charge level (B).



2.3.2 Charging the battery

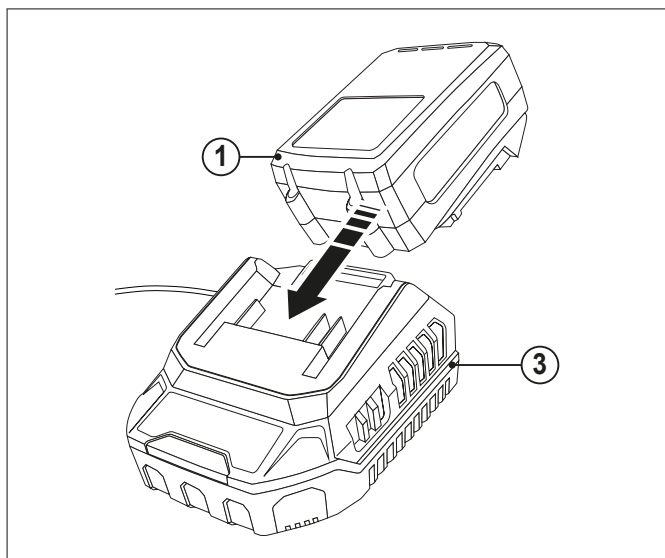
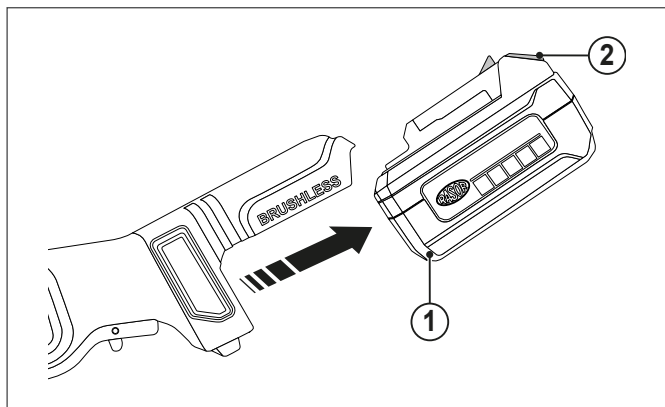
When the battery is flat, recharge it using the docking station supplied with the device only.

- Release the battery (1) from the motor by pressing the orange button (2) on the top.
- Connect the battery charger to the socket without the rechargeable battery. The green LED indicator switches on, signalling it is available for use.
- Insert the rechargeable battery (1) into the charger (3).
- A red light stays on while the battery is charging.
- The green light becomes steady when the battery is fully charged.
- Fast charging starts automatically as soon as the battery temperature is within the charging range of 5°C to 45°C.
- Once rechargeable lithium-ion batteries are charged, the charger automatically switches off.
- A flashing red LED indicates a battery fault.

MAINTENANCE

CAUTION

Repeated charging of a charged battery causes an overcharge and impairs battery life.



CAUTION

Never use batteries other than the one supplied (21 V Li-Ion®, 4.0 Ah).
Only ever use the charger supplied.



CAUTION

If battery performance drops after a short time despite proper recharging, the battery has lost its recharging capacity and must be replaced.



3 MAINTENANCE

3.1 Blade sharpening

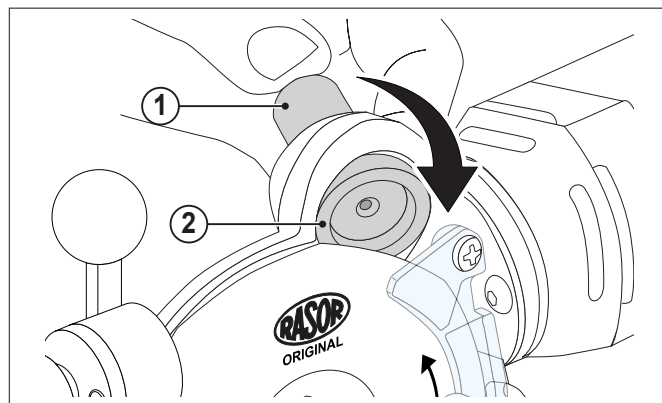
After several hours of continuous use, or if the cutter is no longer cutting as it should, sharpen the blade.

To sharpen the blade, start the **PROTURF** then press and hold the sharpening button (1) for 3-4 seconds.

Repeat 2-3 times.

If sharpening the blade is not effective, check the emery wheel (2) for wear.

If the emery wheel (2) is excessively worn or dirty, replace it. To do this, first remove the blade using the relevant accessories.



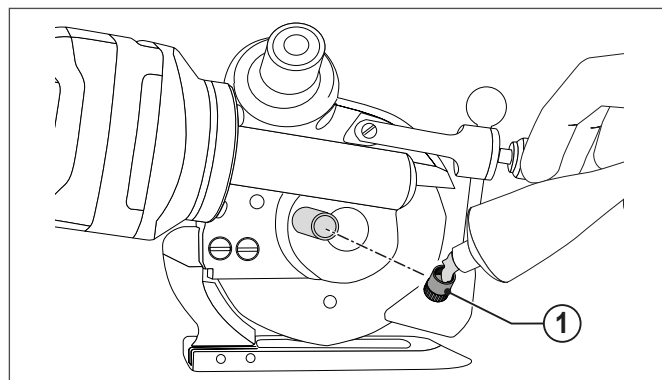
3.2 Lubrication

Lubricate the pair of gears every week of use.

To do this, remove the protective cap (1) on the cutter head and fill with grease (supplied).

Turn the cap (1) a few times to screw it back on.

Tighten the cap (1) by a few turns every day the cutter is used.



CAUTION

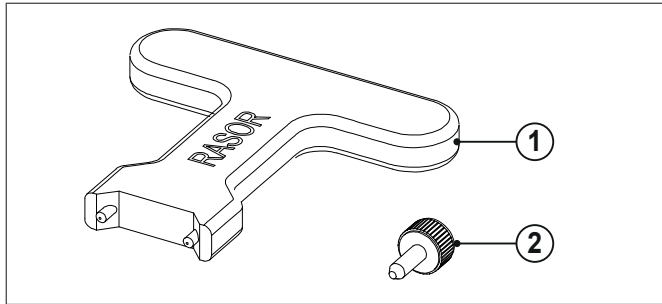
The blade must never be dirty with grease or oil.



3.3 Replacing the blade

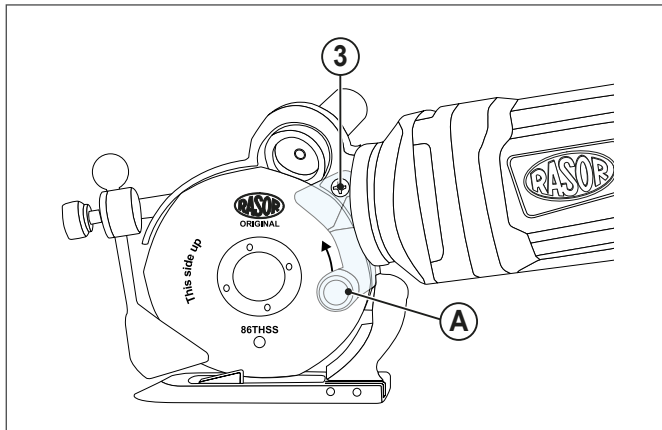
If the blade no longer cuts the material (even after repeated sharpening), replace it.

To do this you need the butterfly key (1) and blade-locking punch (2).

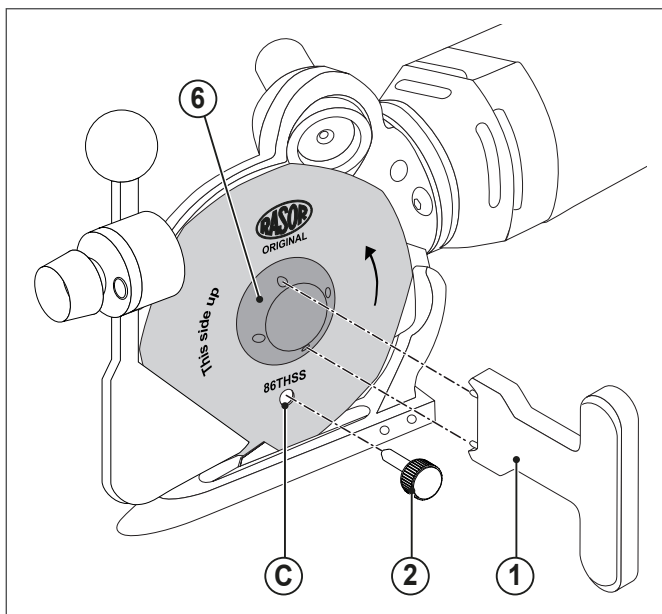


To replace the blade:

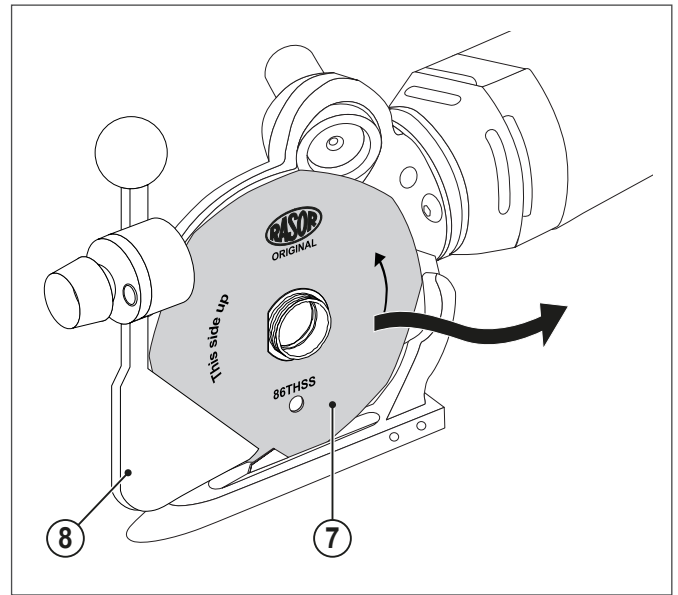
- 1 Disconnect the battery from the tool;
- 2 Wear protective gloves in accordance with Italian Legislative Decree 81/08;
- 3 Unscrew the screw (3) and remove the rear protection (A);



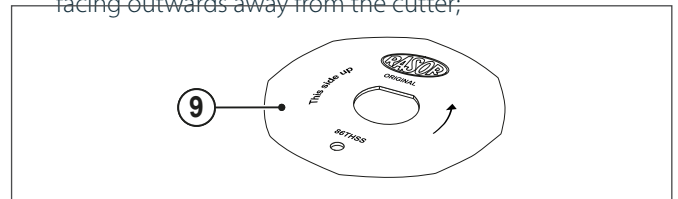
- 4 Insert the punch (2) in the hole (C) to lock the blade;
- 5 Position the butterfly key (1) on the blade fixed ring nut (6) and unscrew the ring nut;



- 6 Remove the blade (7) by sliding it out of the fibre opening system (8);



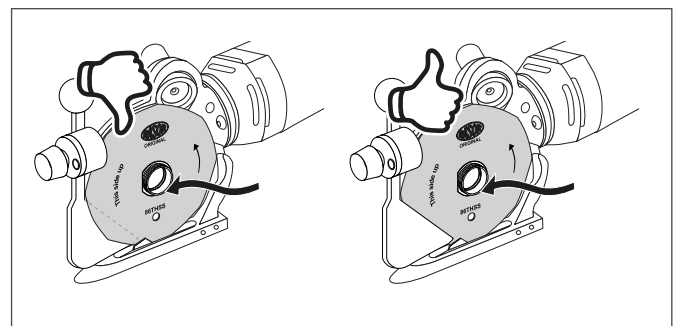
- 7 Replace the worn blade with a new one (9) of the same size and with the same specifications. Make sure the blade is centred on the gear in the correct position. Fit the blade with the blunt side (the side with the word RASOR on it) facing outwards away from the cutter;



CAUTION



The new blade must fit into the milling of the fibre opening system.



- 8 Refit all parts and test both cutting and sharpening.

SPARE PARTS

3.3.1 Available blades

CODE	DESCRIPTION
86THSS	Ø 86 mm 8-sided HSS steel blade. Suitable for all types of grass.
86THSSTF	Ø 86 mm 8-sided HSS steel blade with non-stick Teflon® coating. Suitable for cutting turf, even with glue or adhesive.
86PHSS	Ø 86 mm 5-sided HSS steel blade. Suitable for all types of grass.
86PHSSTF	Ø 86 mm 5-sided HSS steel blade with non-stick Teflon® coating. Suitable for cutting turf, even with glue or adhesive.
86THSSTN	Ø 86 mm 8-sided HSS steel blade with Titanium Carbo-Nitride coating (TiCN). TiCN coating makes the surface of the blade particularly hard and resistant to abrasive and adhesive wear.

Technical data are indicative and subject to change without notice.

3.4 Problems and possible causes/solutions

ANOMALY	SOLUTION
The material is not cut or gets stuck between the blade and the fixed blade	Check that the blade and fixed blade are touching and that there is no residual material on the fixed blade
	Check that the fixed blade is integral
	Check the type of material
	Sharpen the blade
	Check the material thickness
	Check compatibility between the blade and the material
	Check the motor turns correctly
The cutter is noisy	Check the battery charge level
	Reduce the speed
	Lubricate
The cutter is slow to start, works on and off, or does not start	Dismantle the blade and remove residual material
	Check the batteries are inserted correctly
	Check the battery charge level
	Leave the machine to cool down

WARNINGS

Contact the retailer for problems not included in this table

4 SPARE PARTS

WARNINGS

Use only original spare parts to replace faulty components.

When requesting spare parts, always state the exact model name and the device's serial number.

DO NOT

Use unsuitable spare parts. They can cause anomalous operation and harm people or property.

WARNINGS

For an exploded diagram of spare parts with item codes, visit www.rasor-cutters.com

5 DISPOSAL

5.1 Disposal at end of life

CAUTION

Some parts of the product may contain polluting or hazardous substances that, if leaked, could harm the environment and human health.



PRODUCT CONFORMING TO EU DIRECTIVE 2012/19/EU on waste electrical and electronic equipment (WEEE).

The crossed out wheeled bin symbol on the equipment or its packaging indicates that the product must be collected separately from other waste at the end of its life.



As such, the user must take the product at the end of its life to a suitable centre for recycling electrical and electronic waste.

Separate collection enables the decommissioned equipment to be properly recycled, treated and disposed of whilst preventing harm to the environment and to health and facilitating the reuse and/or recycling of the device's component materials.

Spent batteries must be disposed of according to current regulations.



CAUTION

Existing local regulations may impose heavy penalties for improper disposal of this product.

6 WARRANTY

Rasor® Elettromeccanica S.r.l. PROTURF cordless electric scissors are covered by a 12-month warranty from the manufacture date, barring other written agreement.

The warranty covers all material and manufacturing defects and envisages the replacement of spare parts or the repair of defective parts solely by us at our workshop.

If returning the product to us for repair, the customer must always send the complete scissors to Rasor®. Individual defective parts will not be accepted for repair under warranty.

Material for repair must be sent CARRIAGE PAID.

Once repaired, the device will be returned to the customer CARRIAGE FORWARD.

The warranty does not cover our technicians working on the customer's premises or dismantling the product.

If one of our technicians has to be sent out for practical reasons, labour will be charged at current rates plus travel expenses.

THE WARRANTY DOES NOT COVER:

- faults caused by incorrect use or assembly;
- faults caused by external agents;
- faults caused by neglect or poor maintenance;
- normal wear and tear on the blades and products.

THE WARRANTY IS VOIDED:

- in the event of delinquency or other breach of contract;
- if repairs or changes are made to our cordless electric scissors without our consent;
- if the serial number is tampered with or erased;
- if damage is caused by improper use or poor treatment, e.g. knocks, falls or other causes not attributable to normal operating conditions;
- if the device is dismantled, tampered with or repaired by personnel not authorised by Rasor® Elettromeccanica S.r.l.;
- if the cordless electric scissors are used for purposes other than those stated in this manual;
- if parts other than Rasor® original spare parts are used.

Repairs made under warranty do not interrupt its duration.

The competent court for all disputes is the court of Milan.

RASOR ELETTROMECCANICA SRL

Via Giannetto Mattei 41/43

20044 Arese (MI) · Italy

ph. +39 02 66 22 12 31

info@rasor-cutters.com

www.rasor-cutters.com

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