



ORIGINAL INSTRUCTION MANUAL

1300W

ELECTRIC SCARIFIER AND RAKER

YT6702



**Important - Please read these instructions
fully before starting assembly**

These instructions contain important information that will help you get the best from your scarifier and rake, ensuring it is assembled correctly and safely. If you need help or have damaged or missing parts, call the Customer Helpline on 0345 605 2070

**AFTER SALES SUPPORT
0345 605 2070**

SPEAR & JACKSON SINCE 1760

For more than 250 years gardeners have enjoyed high quality performance and great results using Spear & Jackson tools.

Our garden power tools combine continuous innovation and the latest in manufacturing technologies with a proud heritage.

Each product is carefully designed with performance, comfort and durability firmly in mind, which has earned Spear & Jackson an enviable reputation as a maker of tools to trust.

3 YEARS GUARANTEE

As a testament to the quality of our products, we offer a 3 year manufacturers warranty and a comprehensive after sales service.

The warranty covers manufacturing faults, however in the event that the item has been deliberately damaged, used in a commercial environment or disassembled then the warranty will be null and void.

Please retain proof of purchase.

7 DAYS A WEEK TECHNICAL SUPPORT

We want you to get the best out of your products. Our easy-to-read instruction manual guides you with best practice use and maintenance tips. Please call 0345 605 2070 for technical support, we can solve around 80% of questions directly over the phone.

We hope you enjoy your product and we look forward to any feedback, as this allows us to develop even better products for the future.

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SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine.

Description of symbols

The following symbols may be used on your tool. Be sure to study them and learn their meaning. Proper interpretation of these symbols will allow you to use the machine more effectively and reduce the risk of accident.



Indicates danger, warning, or caution.



Read the instruction manual.



Wear eye protection, ear protection and breath protection.



Gloves with hand protection and boots with feet protection, steel toecap and non-slip sole.



To avoid potential electric shock, do not use the unit in humid or wet conditions.



Switch off! Remove plug from mains before cleaning or maintenance.



Switch off! Remove plug from three mains immediately if the cable is damaged or cut.



Work across the face of slopes, never up and down.



Inspect the area where the product is to be used and remove all objects which could be thrown by the product. If objects are hidden while operating stop the motor and remove them.



Beware of sharp tines. Tines continue to rotate after the motor is switched off. Remove plug from power supply before maintenance or if the power cord is damaged.



Keep supply cord away from the cutting device.



Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general, children must not come near the area where the product is.

SAFETY INFORMATION

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DESCRIPTION OF SYMBOLS

The following warning symbols appear throughout this manual and indicate the appropriate safety measures you should take when operating and maintaining the pressure washer.



Conforms to relevant safety standards.



This class II symbol indicates that the product is correctly insulated.

Grounding this machine is therefore unnecessary.



WEEE symbol. Tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.




Guaranteed sound power level ((tested according too Directive 2000/14/ EC as amended by 20005/88/EC).

SAFETY INFORMATION


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GENERAL POWER TOOLS SAFETY WARNINGS

General power tool 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.

 **WARNING!** Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into Consideration. Proper measures include among others regular maintenance and care of the product and application tools, keeping hands warm,

periodical breaks and proper planning of work processes.

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.

Electrical Safety

- a) Power tool plugs must match the outlet. Never

SAFETY INFORMATION

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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) The use of a residual current device (RCD) when using this tool is recommended. Use of an RCD reduces the risk of electric shock.

Personal Safety

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

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

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 before connecting to power source and/or battery pack, picking up or carrying the tool.

Carrying power tools with your finger on the switch or energising 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

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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.

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

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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.

Intended use

This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.

Children should be supervised too ensure that they do not play with the product.

- 1). This scarifier and raker is designated with a rated input of 13300 Watts. Depending on the fitted cutting device this product it is either intended for scarifying and removing thatch from lawns or for raking in domestic and hobby

SAFETY INFORMATION

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gardens.

- 2). When used as a scarifier, this product works by scratching through and between the grass with specially adapted prongs that collect and remove any unwanted parts from the lawn whilst leaving the grass blades intact. At the same time the product scarifies the ground resulting in a better airing.
- 3). When used as a raker, the fine needles will scratch the surface of the lawn while simultaneously picking light debris for better oxygen absorption, airing and draining.
- 4). This product is not too be used in wet weather conditions and may not be used to mow dry, wet or unusually high grass, e. g. pasture grass or for

shredding leaves.

- 5). This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described .

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.

SAFETY INFORMATION

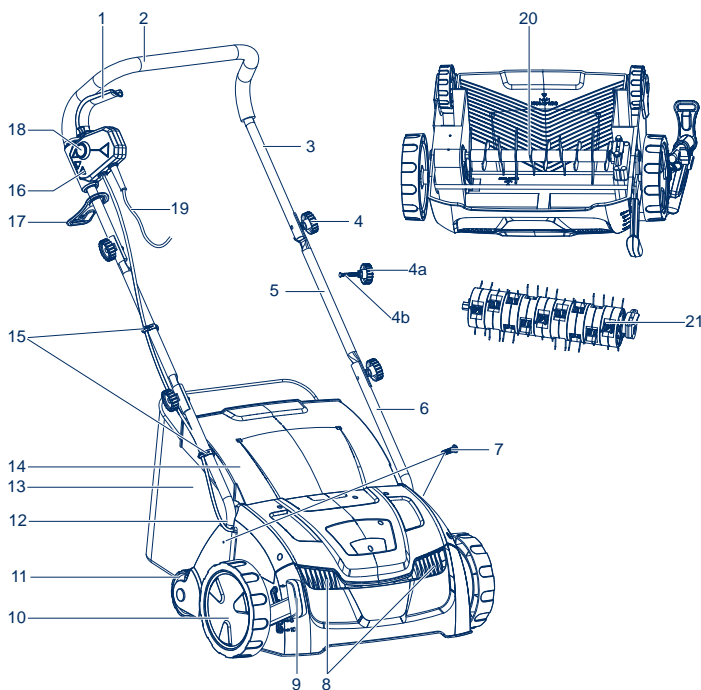
Please read these instructions fully before operating or maintaining your machine

2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.

IN THE BOX

Part list

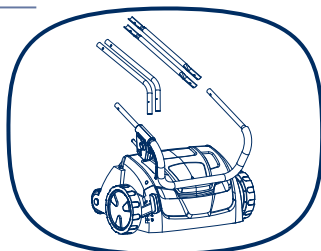
- | | |
|-------------------------------------|--|
| 1. Start/stop lever | 11. Rear wheel |
| 2. Upper handle | 12. Lower handle bar Installation location |
| 3. Upper handle bar | 13. Grass bag |
| 4. Mounting set (X4) for handle bar | 14. Deflector guard |
| 4a. Knob | 15. Cord clip (X2) |
| 4b. Bolt | 16. Switch box |
| 5. Middle handle bar | 17. Cord stain relief |
| 6. Lower handle bar | 18. Lock-off button |
| 7. Screw (x2) | 19. Power cord |
| 8. Air vents | 20. Cutting device (scarifying cylinder) |
| 9. Depth adjustment lever | 21. Cutting device (raking cylinder) |
| 10. Front wheel | |



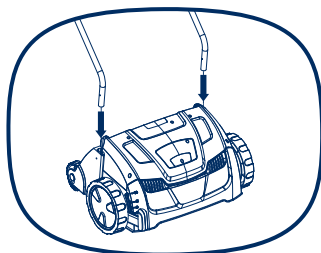
ASSEMBLE

Handle Bar Assembly

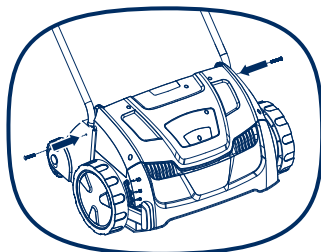
1. Place the machine on a plant ground.Take out handles and hand bars.



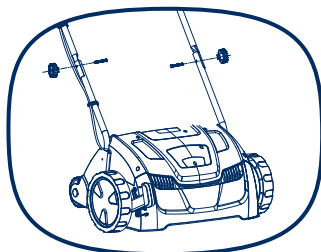
2. Align the lower handle bars with frame(Lower hand bar hole). Keep the direction of both lower handle bar in line with the wheels will be helpful to make the holes on the handle bar correspond those in the frame.



3. Secure the bars with one screw each to the support.

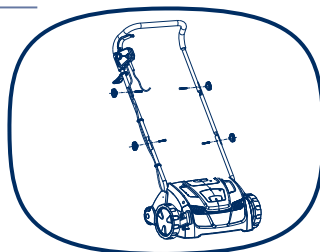


4. Align the middle handle bars to the lower ones. Make sure the holes of the handle bars correspond and secure them with one mounting set on each side.

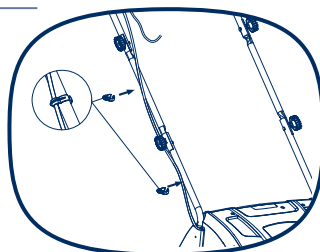


ASSEMBLE

-
5. Put the cord strain relief on the upper handle bar, just under the switch box, align the upper handle bar with the middle handle bar and secure them with one mounting set on each side.
-



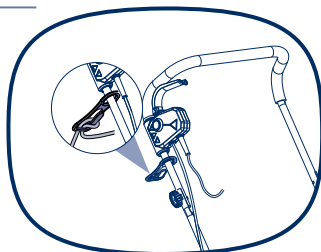
-
6. Fix the cord with the cord clips to the handle bar.
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PREPARE

1. Settle the power cord.

The power cord should be wrapped around the cord stain relief to avoid long lines stumbling pedestrians or causing electric shock. Get children, pets out of working area.

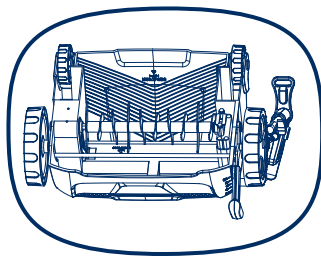


2. Install correct cutting device

The machine is fitted with a scarifying cylinder blade before delivery.

A. For scarifying

Correct cutting blade fitted already thus no need for extra installation.

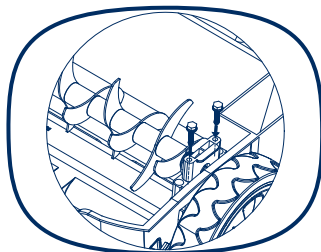


B. For raking

You need to disassemble the scarifying cylinder blade firstly before fitting the raking blade.

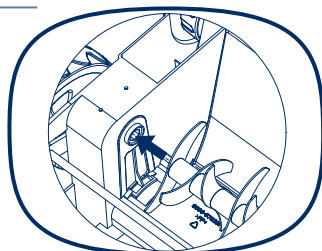
First step, disassemble the scarifying cylinder blade:

- Place the product upside down on a flat stable ground to have access to the under-body.
- Loosen the two bolts with a suitable wrench, remove them together with the spring washers and the presently attached cutting device.
- To remove the cutting device, first lift the bearing and then pull it out from the drive shaft.

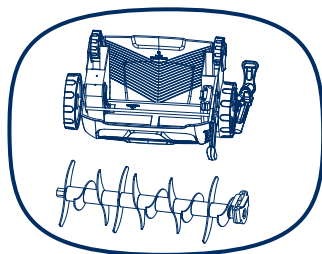


PREPARE

-
- d. Slide the hex nut out the socket of driving shaft and the bearing from the support with the bolts and spring washers.

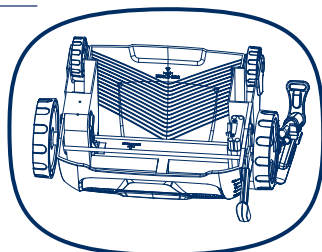


- e. Then you can take out Scarifying cylinder with blades.

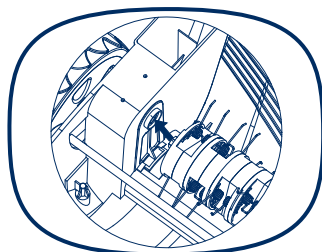


Second step, install the raking cylinder blade:

- a. Place the product upside down on a flat stable ground to have access to the under-body.

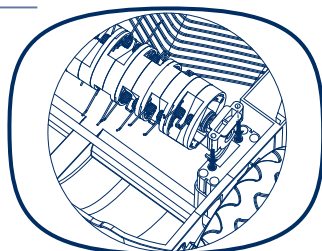


- b. Slide the hex nut into the socket of driving shaft. Put drive shaft into socket stably.

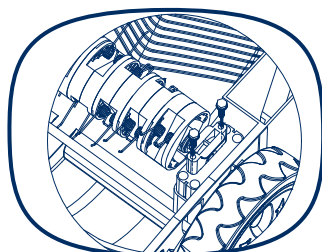


PREPARE

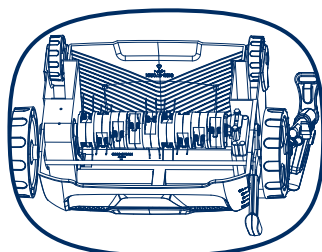
- c. Put the the drive shaft on upper bearing seat, and keep it in correct position steadily.



- d. Tighten drive shaft with two bolts by suitable wrench with the spring washers and fix cutting device tightly.



- e. Check the installation, and keep it can work normally.

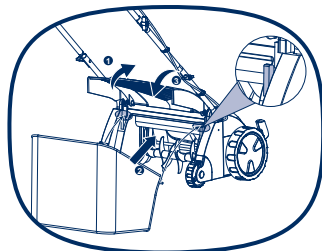


3. Install the grass bag.

Depending the work you intend to do, you may need to install the grass bag.

For scarifying mode there is no need to do so.

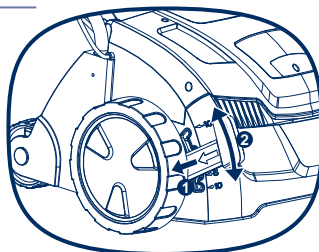
For raking mode, just lift the rear deflector guard and attach the grass bag to the rear side of the machine.



PREPARE

4. Adjust the working height setting

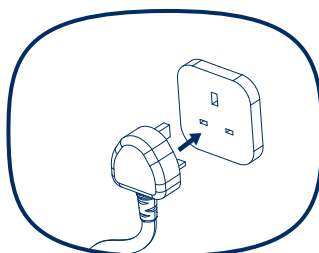
Push the depth adjustment lever towards the wheel and then move it forward or backward to adjust the cutting depth. as per your needs.



Scale / Position	Setting	Application		
		Depth	Scarifying	Raking
1	high	10 mm	do not use for scarifying	for pushing behind with the machine; and removing thin thatch layers
2	minimal	5 mm	do not use for scarifying	raking healthy lawn
3	middle	0 mm	transport, storage and scarifying	transport, storage and raking
4	deep	-5 mm	use for scarifying	not recommended for raking
5	deep	-10 mm	use for scarifying	do not use for raking

5. Connect to the power source

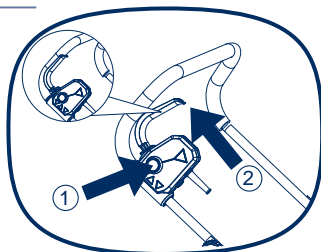
Insert the power cord/plug to the power source before starting to work.



OPERATE

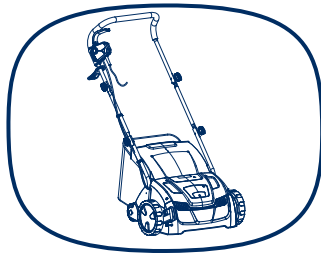
1. Switch on/off

Firstly,press the lock-off button① fully,then hold the start/stop lever② .when machine is operated,the lock-off button can be released.



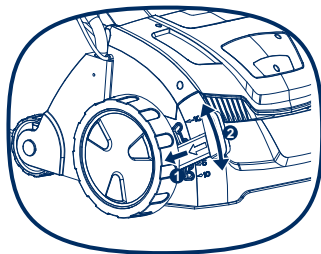
2. Hold the machine

Keep your body straight to work with double hands,and keep your feet away from dangerous zone,and avoid hurting by blades or needles of devices.



3. Scarifying work

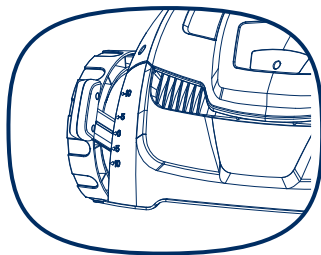
Scarifying work is run with scarifying cylinder with blades,you can adjust the working depth by depth adjustment lever accordingly. Consider the weather when scarifying. Scarify the lawn with an increased depth setting during spring time between April and May as the lawn is better able to recover during this season. During a wet summer scarify again in late summer with a decreased depth setting. Do not scarify during periods of hot weather condition. During a dry rainless summer do not scarify a second time in autumn.



OPERATE

4. Raking work

Raking work is run with raking cylinder with fine needles, you can adjust the working depth by depth adjustment lever accordingly. In order that a healthy lawn can develop in the spring, it is necessary for greater amounts of air to penetrate the area around the roots of the grass. We recommend aerate the lawn every 4 - 6 weeks depending on the state of your lawn.



NOTE: Overload protection

The overload protection will be activated the following circumstances:

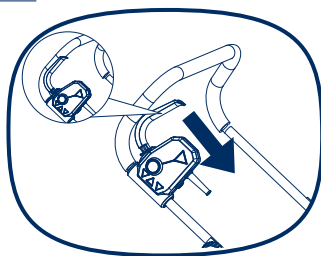
- 1). A build up of scarified material around cutting device.**
- 2). If the material scarified is larger then motor capacity.**
- 3). Where there is too much resistance against the cutting device.**

When the circuit breaker has been activated switch off the product and disconnect from the power supply.

Let the product cool down and eliminate cause before using the product again.

5. Stop machine

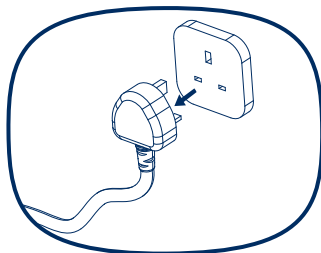
Release the start/stop lever, machine will stop running. press the lock-off button and hold the Start/stop lever, restart the machine.



OPERATE

6. Disconnect power source

When you finish work,remember disconnect power source.



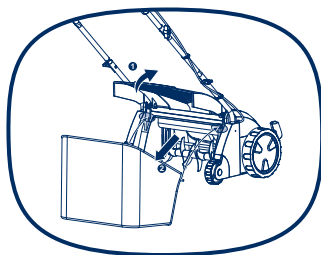
7. Empty grass bag

Take out grass bag,clean out grass what you raked in this bag.and keep grass bag clean and intact.

- a) Open the deflector guard , hold it in position and align the hooks on the grass bag with the hinges to hang it onto.
- b) Empty the grass bag frequently during use. Do not wait until it is completely full.

We recommend emptying it when it is half full.

- c). Lift the deflector guard and pull the grass bag off the hinges to remove it.
- d) Empty the collected material onto a compost heap and reattach it onto the product.

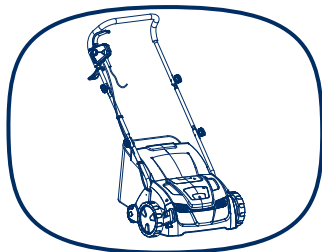


MAINTENANCE

1. Clean machine body

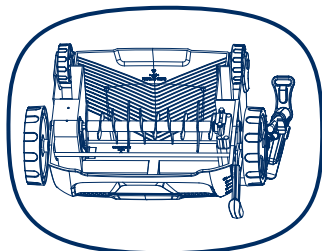
Clean the deflector guard and handle bars, and other necessary parts with clean cloth

When you end work, or it will be with dust and dirt, etc. Reduce the life of components.



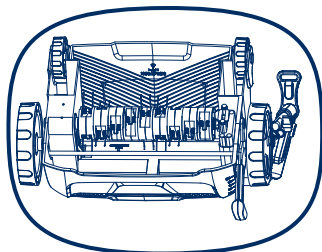
2. Clean scarifying cylinder with blades.

After scarifying work, clean the scarifying cylinder and blades, Plastic frame with clean cloth or Brush, or water it and keep it clean. Get blades and drive shaft out of sand and dust.



3. Clean raking cylinder with fine needles

After raking work, clean the raking cylinder and needles, remove the grass from needles carefully, keep it clean and sweep plastic frame with clean cloth or Brush.




4. Storage

Store your product in a dry place. You'd better use original package to maintain.

To ensure a long service life all screw parts should be cleaned and then oiled.

TECHNICAL DATA

Model	YT6702
Rated voltage	220-240V/50Hz
Power input power	1300W
No-load speed	3000/min
Max.cutting width	32cm
Working height setting	5 adjustments(-10/-5/0/5/10mm)
Grass catcher bag	30L
Vibration	3.591m/s ² K=1.5m/s ²
Measured sound pressure level LPA	84.5dB(A) K=3dB(A)
Measured sound power level LwA	97.9dB(A) K=3dB(A)
Guaranteed sound power level LwA	104dB(A)
Protection class	II 
Degree of protection	IPX4
Machine weight	12.25KG
Cable length	10m

PARTS NUMBER	ACCESSORIES
L1710033	Cutting device (scarifying cylinder)
L1710034	Cutting device (raking cylinder)



WARNING! Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into consideration.



Proper measures include among others regular maintenance and care of the product and application tools, keeping hands warm, periodical breaks and proper planning of work processes.

Environmental Protection



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.

TROUBLESHOOTING

TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorized service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
Product does not start	<ul style="list-style-type: none">- Not connected to power supply- Power cord or plug defective- Other electrical defect to the product- Lock-off button not pressed	<ul style="list-style-type: none">- Connect to power supply- Check by a specialist electrician- Check by a specialist electrician- Press lock-off button first, then the start/stop lever.
Product does not reach full power	<ul style="list-style-type: none">- Power source (e.g. generator) has too low voltage.- Air vents blocked	<ul style="list-style-type: none">- Connect to another power source- Clean the air vents
Power result	<ul style="list-style-type: none">- Cutting device is dull/damaged- Scarified material exceeds capacity- Scarifying depth is incorrect	<ul style="list-style-type: none">- Replace a new one- Only scarify materials according to capacity of the product- Adjust depth

WARRANTY

If your device develops a fault, please don't hesitate to contact our customer service department on 0345 605 2070, we can solve 80% of problems via the phone.

1. These warranty terms cover additional warranty rights and do not affect your statutory warranty rights. All our products are covered by a 3 year manufacturer warranty.
2. Claims must be accompanied by proof of purchase. This must be in the form of a sales receipt or bank statement and must show that the product has been purchased within the warranty period as described under point 1, from the retailer that it was originally bought from. Please keep your receipt safe or staple it to the back of this manual for future reference.
3. Our warranty covers problems caused by material or manufacturing defects, and will result in the repair of these defects or replacement of the device with a like for like or similar article.
4. Our devices have not been designed for commercial, trade or industrial applications, any signs of use of the equipment in these application or equivalent activities, invalidates the warranty.
5. The following are also excluded from our warranty:
 - A. Faults due to accidents, customer misuse or unauthorized repairs
 - B. Consumable Parts such as cutting device (scarifying cylinder), cutting device (raking cylinder) and other accessories that are compatible with the product.
 - C. Failure due to lack of routine maintenance.
 - D. Failure as a result of not using the equipment in accordance with the manual and safety instructions.

Warranty claims should be submitted before the end of the warranty period, see point 1, but a paid service exists for repairs commissioned after this period. The original warranty period remains applicable to the device even if repairs are carried out or parts are replaced. In such cases, the work performed or parts fitted will not result in an extension of the warranty period, and no new warranty will become active for the work performed or parts fitted.

If you have any problems or questions concerning your garden power tool, please contact our after sales service at 0345 605 2070.

This device may be re-conditioned, like for like or upgraded replacement.