



**SPEAR &
JACKSON**

ORIGINAL INSTRUCTIONS

Please retain for future reference

1400W

ELECTRIC SCARIFIER AND RAKER

S1432ESC



1 of 25

V2:03/21

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 03456052067

**AFTER SALES SUPPORT
0345 605 2067**

SAN NO.: 03218AUA0041

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 YEAR 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 2067 for technical support, we aim to 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.

Produced in China under licence for Spear&Jackson
Argos Limited 489-499 Avebury Boulevard, Milton Keynes, MK9 2NW.
[Argos \(N.I.\) Ltd, Forestside Shopping Centre, Upper Galwally, Belfast, United Kingdom, BT8 6FX.](#)

Argos Distributors (Ireland) Limited, Unit 7, Ashbourne
Retail Park, Ballybin Road, Ashbourne, County Meath, Ireland.

CONTENTS

| | |
|---|-----------|
| SAFETY INFORMATION | 4 |
| Description of symbols | 4 |
| General power tool safety warning | 6 |
| Work area safety | 6 |
| Electrical safety | 7 |
| Personal safety | 7 |
| Power tool use and care | 9 |
| Intended use | 10 |
| Residual risks | 11 |
| IN THE BOX | 12 |
| Parts list | 12 |
| ASSEMBLY | 13 |
| Handle bar assembly | 13 |
| PREPARE | 15 |
| Install correct cutting device | 15 |
| Assemble the raker cylinder | 16 |
| Install debris collection bag | 16 |
| Adjusting the working height setting | 17 |
| Supply power source | 17 |
| OPERATION | 18 |
| Switch on/off | 18 |
| Hold the machine | 18 |
| Scarifying work | 18 |
| Raking work | 19 |
| Stop machine | 20 |
| Disconnected power source | 20 |
| Empty debris collection bag | 20 |
| MAINTENANCE | 21 |
| Cleaning machine body | 21 |
| Clean scarifying cylinder with blades | 21 |
| Clean raking cylinder with fine needles | 21 |
| Storage | 21 |
| TECHNICAL DATA | 22 |
| TROUBLESHOOTING | 24 |
| WARRANTY | 25 |

SAFETY INFORMATION

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

DESCRIPTION OF SYMBOLS

Some of 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.



Read the instruction manual.



Wear hearing protection.



Wear eye protection



Wear gloves and safety boots to protect against electric shock. Clothing must be sturdy and snug-fitting, but allow complete freedom of movement.



Protect the machine from the damp and never expose it to rain.



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.



WARNING-Beware of sharp blades, keep fingers and toes away. Remove plug from mains before maintenance, adjusting, cleaning or if the cord is entangled or damaged. Blades will continue to rotate for some time after the machine is switched off.



Keep power supply flexible cord away from sharp blades.



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.



DANGER-Keep hands away from blade.



Conforms to relevant EU regulatory requirements.



Conforms to relevant UK regulatory requirements.

SAFETY INFORMATION

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

DESCRIPTION OF SYMBOLS

Some of 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.



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 to Directive 2000/14/ EC as amended by 2005/88/EC).

SAFETY INFORMATION


Please read these instructions fully before operating or maintaining your machine

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 toll. Distractions can cause

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

you to lose control.

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) 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

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

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 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 or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

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 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.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

- 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 ensuring that they do not play with the product.

- 1). This scarifier and raker is designated with a rated input of 1400 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 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.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

- 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 to 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:

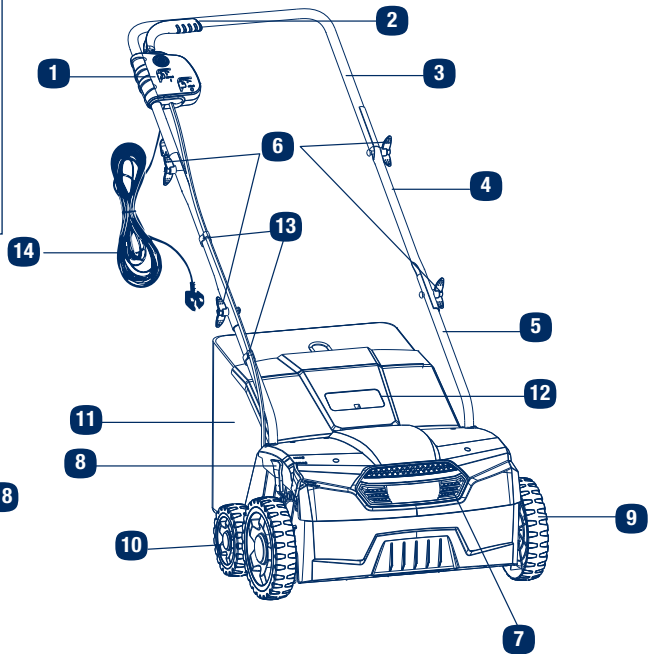
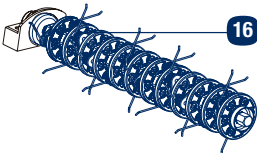
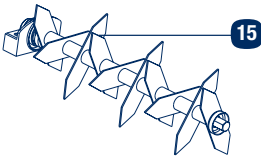
1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.

IN THE BOX

PARTS

- | | | | |
|---|----------------------------|----|--------------------------------------|
| 1 | Switch box | 10 | Rear wheel |
| 2 | Start/stop lever | 11 | Debris collection bag |
| 3 | Upper handle | 12 | Rear flap |
| 4 | Middle handle | 13 | Cord clip (X2) |
| 5 | Lower handle | 14 | Power cord |
| 6 | Handle mounting set (4pcs) | 15 | Cutting device (scarifying cylinder) |
| 7 | Air vents | 16 | Cutting device (raking cylinder) |
| 8 | Depth adjustment lever | 17 | Handle fixing screws(X2) |
| 9 | Front wheel | 18 | Instruction manual |

Scarifying blade supplied pre-assembled in machine



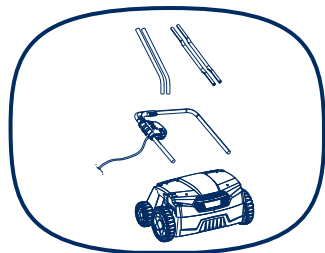
Tools required: PH2 Screwdriver (not supplied)

If there are any parts missing, please call the customer helpline on 0345 605 2067

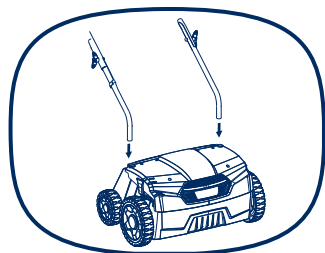
ASSEMBLY

1 Handle Bar Assembly

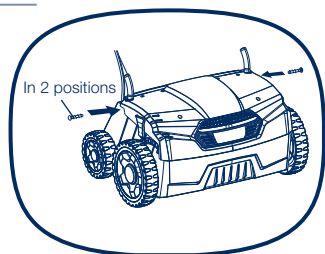
A. Place the machine on firm ground. Take out handles and handle mounting set.



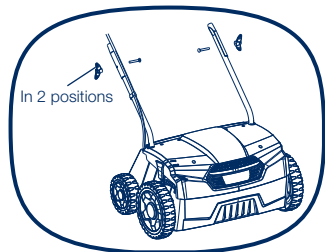
B. Align the lower handle bars with frame (Lower hand bar hole). Keep the direction of both lower handle bar in line with the wheels will assist in aligning the corresponding holes in the frame.



C. Secure the bars with one screw each to both RH and LH support.

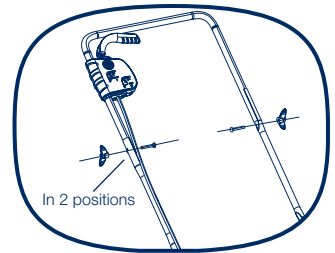


D. Align the middle handle bars to the lower ones. Make sure the holes of the handle bars correspond and secure them with one mounting set on each side.

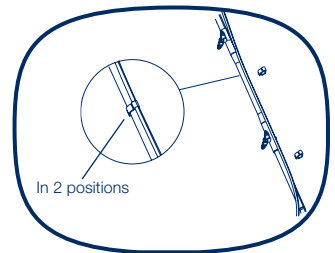


ASSEMBLY

- E. 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.



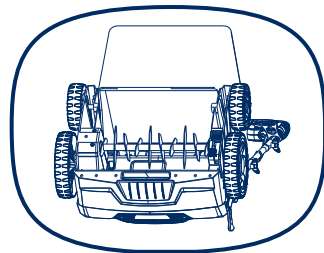
- F. Fix the cord with the cord clips to the handle bar.



PREPARE

1 Install correct cutting device

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



A. For scarifying

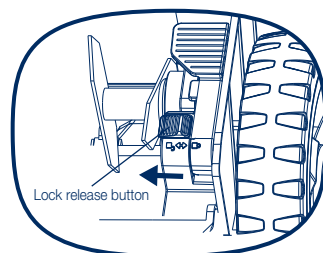
Correct cutting blade is fitted already thus no need for extra installation.

B. For raking

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

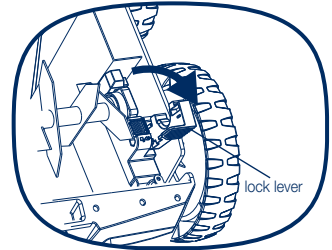
First step, disassemble the scarifying cylinder blade:

- a. Place the product upside down on a flat stable ground to have access to the under-body.
- b. Slide the lock release button towards the blade.



PREPARE

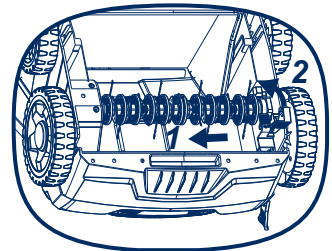
c. Lift the lock lever, and that will release the blade cylinder.



d. Push the scarifying blade cylinder out of the seat.

2 Assemble the raker cylinder

Fix the raker cylinder in the reverse order.

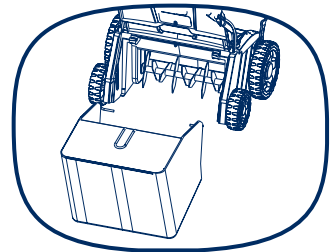


3 Install the debris collection bag

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

For scarifying mode there is no need to do so.

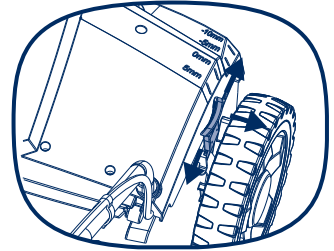
For raking mode, just lift the rear deflector guard and attach the collection bag to the rear side of the machine.



PREPARE

4 Adjust the working height setting

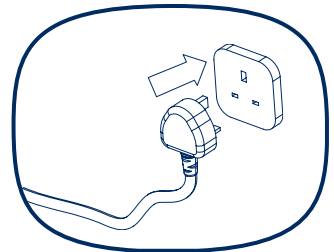
Push the depth adjustment lever towards the wheel and then move it forward or backward to adjust the cutting depth, as per your needs.



| Scale / Position | Setting | Application | | |
|------------------|---------|-------------|-----------------------------------|-------------------------------|
| | | Depth | Scarifying | Raking |
| 1 | minimal | 5 mm | do not use for scarifying | raking healthy lawn |
| 2 | middle | 0 mm | transport, storage and scarifying | transport, storage and raking |
| 3 | deep | -5 mm | use for scarifying | not recommended for raking |
| 4 | deep | -10 mm | use for scarifying | do not use for raking |

5 Supply the power source

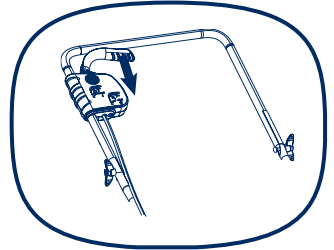
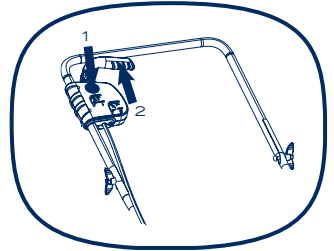
Insert the power cord/plug to the power source before starting to work.



OPERATION

1 Switch on/off

First, press the lock-off button fully, then hold the start/stop lever. When machine is operated, the lock-off button can be released.



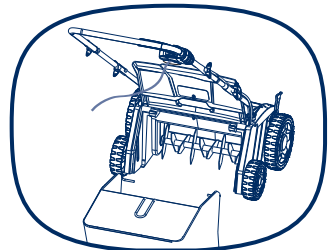
2 Hold the machine

Keep your body straight to the work with double hands and keep your feet away from the moving cylinder blade.

3 Scarifying work

Scarifying work is run with scarifying cylinder with blades, you can adjust the working depth by setting the height lever at the required setting.

Consider the weather when scarifying. Scarify the lawn with an increased depth setting between April and May as the lawn is better able to recover during these months. During a wet summer scarify again in late summer with a decreased depth setting. Do not scarify during periods of dry hot weather. During a dry rainless summer do not scarify a second time in autumn.



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 raking your lawn every 4 - 6 weeks depending on the state of your lawn.



NOTE: Overload protection

The overload protection will be activated in the following circumstances:

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

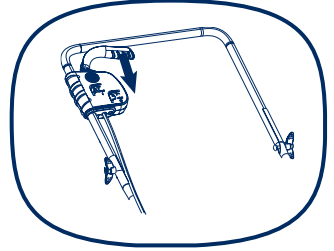
When the circuit breaker has been activated switch off the product and disconnect from the power supply.

Let the product cool down eliminate cause and wait for 5 minutes before using the product again.

OPERATION

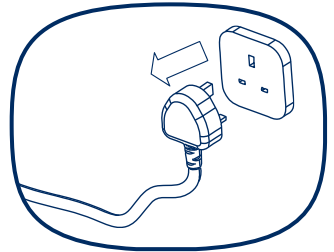
5 Stop machine

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



6 Disconnect power source

When you finish work, remember disconnect power source.

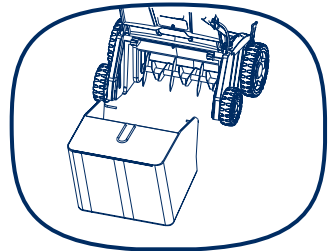


7 Empty debris collection bag

Empty the bag frequently during use. Do not wait until it is completely full.

We recommend emptying it when it is half full.

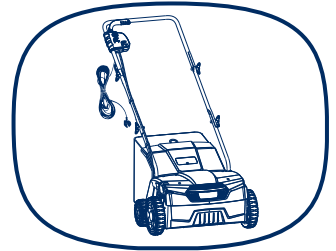
- Lift the deflector guard and pull the bag off the hinges to remove it.
- Empty the collected material onto a compost heap and reattach it onto the product.
- Re-attach the collection bag by aligning the hooks on the bag to the hinges on the machine



MAINTENANCE

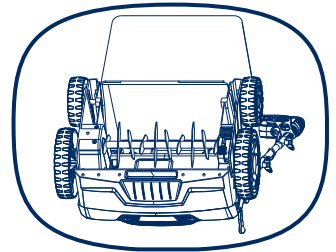
1 Clean machine body

When you have finished using the machine, always clean the deflector guard, handle bars and all main parts with a clean cloth after use.



2 Clean scarifying cylinder (with blades)

Once you have scarified the lawn, always clean the cylinder, blade, plastic body with a clean cloth or soft brush ensuring all residual dirt and sand are removed.

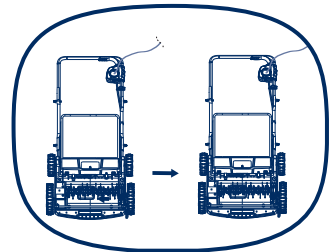


WARNING!

Be aware of sharp edges, blades, etc.

3 Clean raking cylinder (with fine needles)

Once the lawn has been raked, carefully remove any residual grass, moss etc from the metal tines with a dry cloth or brush.



WARNING!

Be aware of sharp edges, needles, etc.

4 Storage

Store your product in a dry place. Clean and oil all the screws after each use to extend the service life of this tool.

TECHNICAL DATA

| Model | S1432ESC |
|--|---|
| Rated voltage | 220-240V~50Hz |
| Rated power | 1400W |
| Replacement fuse rating | 13A |
| No-load speed | 3000/min |
| Max.cutting width | 32cm |
| Working height setting | 4 adjustments(-10/-5/0/5mm) |
| Grass catcher bag | 40L |
| Vibration | 3.591m/s ² K=1.5m/s ² |
| Measured sound power level L _{WA} | 98.16dB(A) |
| Guaranteed sound power level L _{WA} | 103dB(A) |
| Protection class | II |
| Degree of protection | IPX4 |
| Machine net weight | 10.8kg |
| Cable length | 10m |

| PARTS NUMBER | ACCESSORIES |
|--------------|--------------------------------------|
| DT5307-1 | Cutting device (scarifying cylinder) |
| DT5307-2 | Cutting device (raking cylinder) |
| DT5307-3 | Handle mounting set |



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.

TECHNICAL DATA



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.

The sound values have been determined according to noise test code given in EN 50636-2-92, using the basic standards EN ISO 11201 and EN ISO 3744.

The noise figures quoted are emission levels and are not necessarily safe working levels. Factors that influence the actual level of exposure of work-force include the characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes, and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

Wear hearing protection! The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary!

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 press | <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.- Overload protection device activated(wait 5 minutes) |
| Product does not reach full power | <ul style="list-style-type: none">- Power source(e.g. generator)has to 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 cutting device- 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 2067, we aim to 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 2067.

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