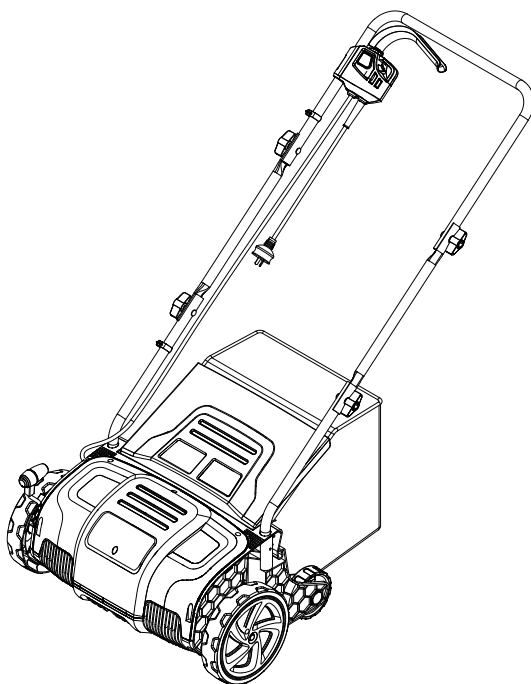




CORDED 32CM (13") LAWN SCARIFIER/DETHATCHER



CAUTION: Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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SAFETY & INTERNATIONAL SYMBOLS

The following table depicts and describes safety and international symbols and pictographs that may appear on this product. Read, understand, and follow all instructions on the machine and in the instruction manual for complete safety, assembly, operating, maintenance, and repair information before attempting to assemble and operate.



WARNING - Read the operator's manual



Wear eye protection.



Wear ear protection.



Wear safety footwear.



Wear protective gloves.



Do not expose the product to rain or wet conditions.



Keep bystanders away.



WARNING - Beware of sharp tines, keep fingers and toes away. Remove plug from mains before maintenance, adjusting, cleaning or

if the cord is entangled or damaged. Tines continue to rotate after the motor is switched off.



Keep supply flexible cord away from tines.



Blades continue to rotate after machine is switched off. Wait until all components have completely stopped before touching the product.



DOUBLE INSULATION - When servicing, use only identical replacement parts.



Guaranteed sound level



RCM Mark



Power tools that are no longer usable and defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

SAFETY INSTRUCTIONS

ELECTRIC SCARIFIER SAFETY WARNINGS

IMPORTANT

READ CAREFULLY BEFORE USE KEEP FOR FUTURE REFERENCE

1. Training

- a. Read the instructions carefully. Be familiar with the controls and the correct use of the equipment.
- b. Never allow children or people unfamiliar with these instructions to use the machine. Local regulations can restrict the age of the operator.
- c. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- d. 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.
- e. Children should be supervised to ensure that they do not play with the product.

2. Preparation

- a. Wear ear protection and safety glasses at all times while operating the machine.
- b. 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.
- c. 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.
- d. Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
- e. Operate the machine in a recommended position and only on a firm, level surface.
- f. Do not operate the machine on a paved

or gravel surface where ejected material could cause injury.

- g. Before starting the machine, check that all screws, nuts, bolts, and other fasteners are properly secured and that guards and screens in place. Replace damaged or unreadable labels.
 - h. Never operate the machine while people, especially children, or pets are nearby.
- ### 3. 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 at all times, especially 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 scarify or aerate excessively steep slopes.
 - h. Use extreme caution when reversing or pulling the machine towards you.
 - i. Stop the tines 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 tines.
 - l. Keep supply and extension cord away from tines.
 - m. Do not tilt 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. Always ensure that both hands are in the operating position before returning the machine to the ground.
 - n. Do not transport the machine while the power source is running.
 - o. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
 - 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.

4. Maintenance and storage

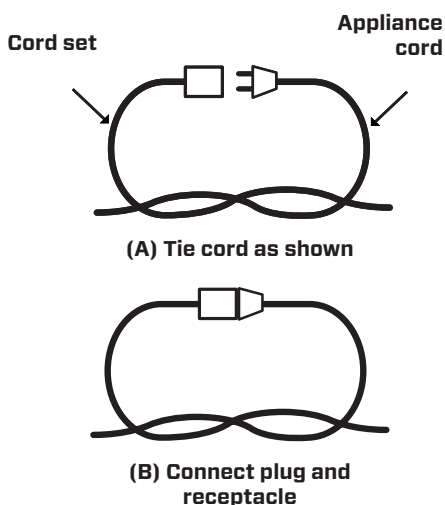
- a. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- b. Check the debris collector frequently for wear or deterioration.
- c. Replace worn or damaged parts for safety.
- d. On machines with multiple tine assemblies, take care as rotating one tine assembly can cause another tine assembly to rotate.
- e. Be careful during adjustment of the machine to prevent entrapment of the fingers between moving tine assemblies and fixed parts of the machine.
- f. Always allow the machine to cool down before storing.
- g. When servicing the tine assembly be aware that, even though the power source is switched off, the tine assembly can still be moved.
- h. Replace worn or damaged parts for safety. Use only genuine replacement parts and accessories.
- i. When the machine is stopped for servicing, inspection, or storage, or to change an accessory, shut off the power source, disconnect the machine from the supply and make sure that all moving parts are come to a complete stop. Allow the machine to cool before making any inspections, adjustments, etc. Maintain the machine with care and keep it clean.
- j. Store the machine out of the reach of children.

5. Recommendation

- a. The machine should be supplied via a residual current device (RCD) with a tripping current of not more than 30 mA.

- b. Only use an extension cord approved for outdoor use. Check that the extension cord is in good condition.
- c. If an extension cord is used the cross-sectional area of the wires must be dimensioned for the power supply to the product. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- d. Do not use extension cords longer than 30 meters.
- e. To prevent the equipment cord from disconnecting from the extension cord during operation, make a knot with the two cords as shown in FIG 1.

FIG 1. Method of Securing Extension Cord



- f. Do not abuse the cord. Never pull the equipment by the cord or yank the cord to disconnect it from the receptacle. Keep the cord away from heat, oil, and sharp edges.
- g. Make sure that no part of product comes into contact with water or any other liquid when it is use. If the product has got wet, wipe it dry before use.
- h. Keep the power cord away from heat, oil and sharp edges, and especially from rotating parts on the product.
- i. Position the cord so that it cannot catch in pieces of wood, tools or other obstacles during the work.

ELECTRICAL SAFETY

- a. Only connect the product to a fused and RCD protected power point.

VIBRATION + NOISE REDUCTION

To reduce the impact of noise and vibration

emission, limit the time of operation, use lowvibration and low-noise operating modes as well as wear personal protective equipment. Consider the following points to minimize the vibration and noise exposure risks.

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well-maintained.
- Use correct attachments for the product and ensure they are in good condition.
- Keep a tight grip on the handles/grip surface.
- Maintain this product by these instructions and keep it well-lubricated (where appropriate).
- Plan your work schedule to spread any high-vibration tool use across a longer period.

EMERGENCY

Familiarize yourself with the use of this product using this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

- Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
- Power off the product if there are malfunctions. Have the product checked by a qualified professional and repaired if necessary before resuming operation.

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:

- Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
- Injuries and damage to property due to broken cutting attachments or the sudden impact of hidden objects during use.
- Danger of injury and property damage caused by flying objects.
- Prolonged use of this product expose the operator to vibrations and may produce

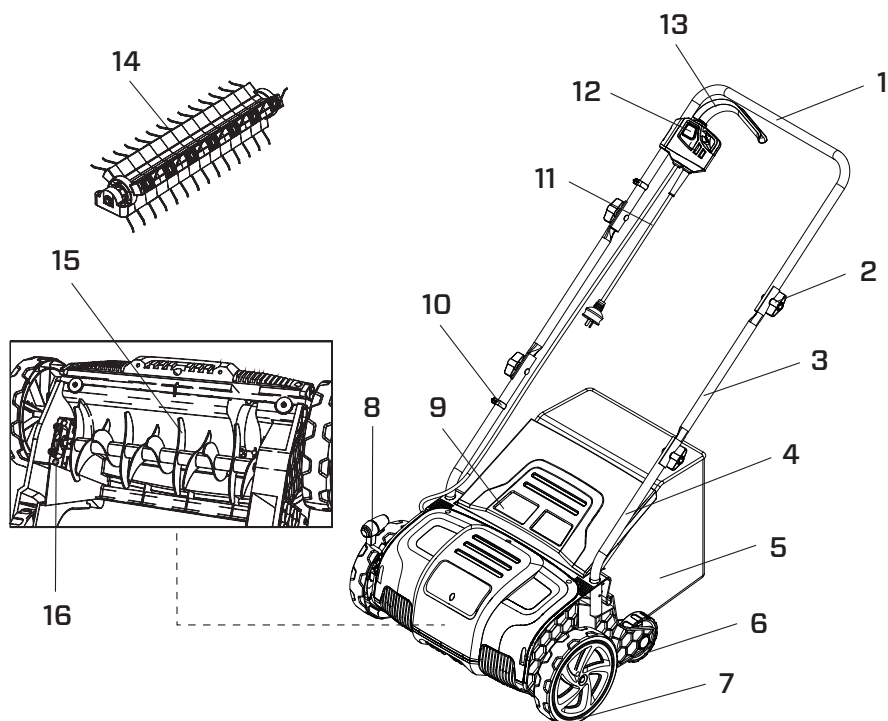
‘whitefinger’ disease. In order to reduce the risk, please wear gloves and keep your hands warm. If any of the ‘whitefinger’ symptoms appear, seek medical advice immediately. ‘Whitefinger’ symptoms include: numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.

SAVE THESE INSTRUCTIONS

INTENDED USE

This product is intended for scarifying and removing thatch from lawns and for raking in domestic and hobby gardens. Do use it for other purposes.

KNOW YOUR UNIT



APPLICATIONS

Model: SCE12-L-EU

As a electric scarifier and rake:

- scarify and remove thatch from lawns.
- rake surface of the lawn for better oxygen absorption, airing and draining.

1	Upper handle
2	Knob
3	Middle Handle
4	Lower Handle
5	Grass Bag
6	Rear Wheel
7	Front Wheel

8	Working Height Adjustment Lever
9	Rear-discharge door
10	Cord Clip
11	Power Cord
12	Safety Button
13	Switch Trigger
14	Dethatcher Cylinder
15	Scarifier Cylinder
16	Bearing Seat

SPECIFICATIONS

Model	SCE12-L-EU
Voltage	220-240 V ~ 50 Hz
Power	1300 W
No-Load Speed	3000 RPM
Working Width	32 cm
Height Adjustment	-10/-5/0/5 mm (4 positions)
Collection Bag	30 L
Sound Level L_{PA} and K	89.5 dB(A) K=3.0 dB(A)
Sound Level L_{WA} and K	106.2 dB(A) K=3.0 dB(A)
Guaranteed sound level	108 dB(A)
Vibration total level a_h and K	2.5 m/s ² K=1.5 m/s ²
Recommended Operating Temperature	-15°C - 40°C
Recommended Storage Temperature	-20°C - 70°C
Weight	8.1 kg

ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant.
 - Scarifier x1
 - Wing Nuts x4
 - Bolts x4
 - Screws x2
 - Grass Bag x1
 - Switch Box x1
 - Upper Handle x1
 - Middle Handle x2
 - Lower Handle x2

- Cord Clip x2
- Hex Wrench x1
- Rake Cylinder x1
- Instruction Manual x1

4. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

! WARNING!



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling.



Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Do not connect to the power supply before the power tool is completely assembled or adjusted!

! WARNING!

Do not attempt to modify this equipment or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to serious injury.

INSTALLING THE HANDLES

1. Insert the lower handles into mounting holes on both sides, then secure the handles with supplied two screws.

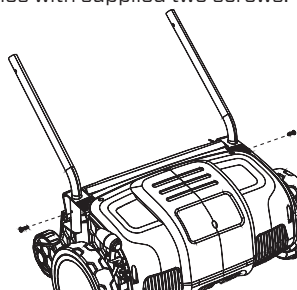


Fig. 1

2. Align the holes of middle handles with lower handles' holes. The middle handles should be in the inner side. Secure them with

supplied wing nuts and bolts.

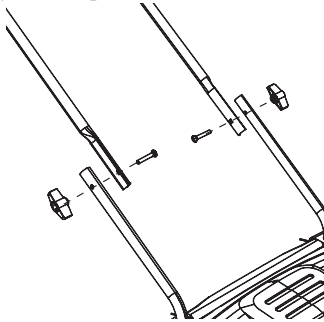


Fig. 2

- Slide the switch box along the switch box lock until you hear a click indicating that the switch box is secured in place.

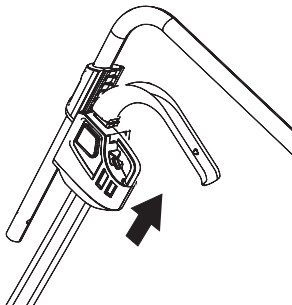


Fig. 3

- Align the holes of upper handle with middle handles' holes. The upper handle should be in the outer side. Secure them with supplied wing nuts and bolts.

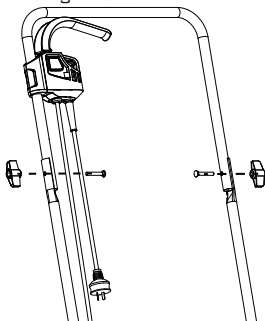


Fig. 4

- Secure the power cord with the cord clips on the middle and lower handle. secure power

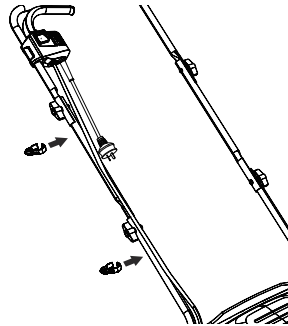


Fig. 5

INSTALLING/REMOVING THE GRASS BAG



WARNING!

Never use the scarifier without the bag in place. There is a high risk of personal injury from ejected object. Always make sure the bag is in correct place before use.

To Install:

- Lift up the rear-discharge door and hang the bag on the mounting hooks.

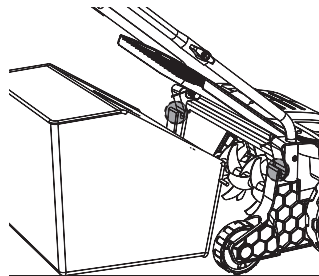


Fig. 6

To Remove:



NOTE:

The scarifier works less effectively when the bag is full. Empty the bag at regular intervals during the work. Do not wait until it is full. It is recommended to empty it when it is half full.

- Lift up the rear-discharge door and lift the bag off the mounting hooks.
- Empty the bag before resuming work.

OPERATION



WARNING!

Inspect the tool for complete installation. Any missing ,damaged or misplace may cause serious injury.



WARNING!

To reduce the risk of injury to persons, do not operate without guards in place.



WARNING!

Wear eye and ear protection, gloves, long trousers and boots at all times while operating the tool.

WORKING DEPTH ADJUSTMENT



WARNING!

Switch off the scarifier, pull out the plug and wait until all moving parts having completely stopped before adjusting the depth.

1. Pull the lever away from the wheel and move it forwards or backwards to adjust the required working depth.
2. Choose one of working depths shown nearby.

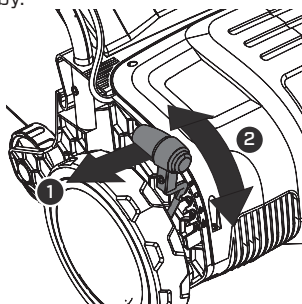


Fig. 7

Setting	Working Depth	How To Use
Minimum depth	5 mm	For raking of healthy lawns. Do not use for scarifying.

Medium depth	0 mm	For transport, storage, scarifying and raking.
Deep depth	-5 mm	For scarifying, not recommended for raking.
Maximum depth	-10 mm	For scarifying, do not use for raking.

SECURING THE EXTENSION CORD



WARNING!

Do not connect the tool directly to the power supply. A proper extension cord is required for operation.

1. Form a loop with the extension cord and push the loop through the slot on the cord restraint hook.
2. Position the loop over the hook and pull the cable back through the slot. Securing the extension cord in this manner will prevent it from accidentally disconnecting from the power supply during operation.

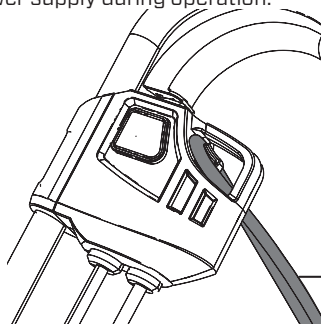


Fig. 8

SWITCHING ON/OFF



WARNING!

Check before starting that the moving parts on the scarifier are not in contact with any foreign objects. Keep your hands and feet away from the ejector opening and moving parts.



WARNING!

Keep the supply cord away from the tines. A damaged supply cord may result in electric shock, fire and/or serious injury.

To Start:

Press and hold the safety button while pulling the switch trigger toward you. Once the tool is running, release the safety button.

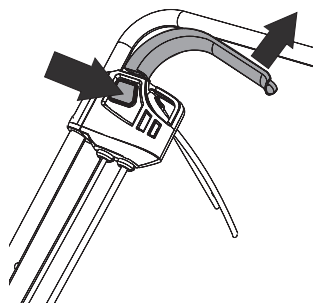


Fig. 9

To Stop:

Release the switch trigger to stop. Disconnect with the power supply.



WARNING!

The cylinder continues to rotate for a short while after turning off the scarifier. Do not tilt or lift the scarifier when the motor is running and do not touch the cylinder until it has completely stopped. Failure to follow these instructions can lead to serious personal injury.

OPERATION TIPS

GENERAL TIPS

1. Check the product thoroughly, including its power cord and plug as well as accessories, for damage before each use. Do not use the product if it is damaged or shows wear.
2. Check the accessories to make sure that they are properly secured.
3. Push the product forward by its handle. Keep the handle dry to ensure safe support.
4. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
5. Switch off the product immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before

putting it down.

6. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
7. Mow the lawn before working and fertilise afterwards.
8. Make sure that the lawn is clear of stones, sticks, wire or other objects that could damage the product or its motor.
9. Select the appropriate cutting depth for the actual grass height.
10. Do not work with this product on a wet lawn because it tends to stick to the underbody of the product, prevent the proper discharge of collected material, and cause you slipping and falling.
11. Slowly push the product forward. Move the product at an appropriate speed. Do not move it fast to prevent the discharge opening from getting blocked and engine from useless overloading.
12. Work in slight overlapping rows. The most effective pattern for scarifying/raking lawns is straight lines along one of the sides. This will keep the rows even and ensures that all the lawn is scarified/raked without missing any spots.
13. Pay attention when changing direction.

SCARIFYING

- Taking the weather into consideration when scarifying.
- Deeper scarifying should be done in April or May, because the lawn then has more time to recover during the season.
- If it has been a rainy summer, carry out scarifying with less depth during the late summer.
- Do not rake during extended hot periods.
- Do not scarify in the autumn if there has been a dry summer.

RAKING

- For well growth of the grass in the spring, air must be able to penetrate down to the grass roots.
- Raking should be carried out every 4 or 6 week, depending on grass growth.

OVERLOAD PROTECTION

The overload protection will be activated in the following circumstances:

- If accumulated material blocks the cutter unit.

- If the motor is too weak to handle the material fed in.
- If the cutter unit is blocked.

If the overload protection have been activated, switch off the scarifier, remove the plug and wait until all moving parts have completely stopped. Allow the scarifier to cool and rectify the reason before starting it again.

MAINTENANCE

WARNING!

Always switch off the scarifier, remove the plug and wait until all moving parts have completely stopped before service, cleaning, storage and transportation.

WARNING!

Only perform cleaning and maintenance work according to these instructions! All further works must be performed by a qualified specialist! And only use specified spare parts for replacement.

WARNING!

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.

REPLACE THE CUTTING UNIT

This scarifier has two functions: scarifying and raking. A raking cylinder is shipped with the tool assembled with the scarifying cylinder. Fit the cutter unit according to the work to be performed.

1. Place the tool on a level, stable surface so that the underside is accessible. Remove the bag if necessary.
2. Unscrew the two bolts with the supplied wrench and remove them together with the cutter unit.

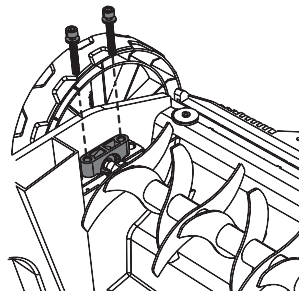


Fig. 10

3. To remove the cutter unit, first lift the bearing seat and pull it out off the drive shaft.
4. Fit the required cutter unit. Put the hex nut in the recess on the drive shaft and screw the bearing seat in place with the bolts.

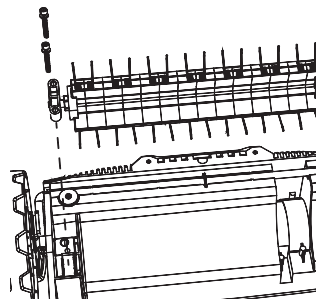


Fig. 11



NOTE:

Check if the cutter unit is correctly installed. The circular side of the cylinder bearing seat should facing down.

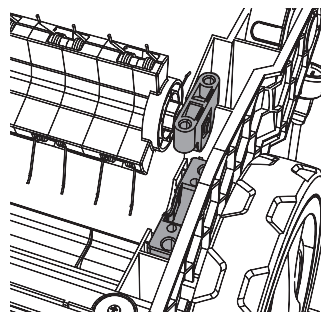


Fig. 12

CLEANING

- Switch the product off, remove the plug and wait until all moving parts have completely stopped.
- Clean the bag after use. Allow the bag to dry before putting it away.
- Always keep the tool clean and free of grass, dirt, or other debris.
- Keep the handles dry, clean, and free of oil and grease.
- Use a small brush to clean the outside of the product. Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic. Wipe off any moisture with a soft cloth.
- After each cutting session, remove accumulated grass clippings and debris using either a dry cloth or hand brush.
- Inspect the product before and after each use for worn and damaged parts. Do not operate it if you find worn and damaged parts.

TRANSPORTATION

- Clean the product as described above.
- Always carry the product by its transport handle.
- Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
- Secure the product to prevent it from slipping or falling over, damage or injury.

STORAGE

- Clean the tool as described above.
- Inspect the cutting unit and replace it if required.
- Store the tool in a dry, clean location. Do not store it next to corrosive materials, such as fertilizer or rock salt.
- Store the tool in a covered and enclosed space that is cool and dry and out of the reach of pets and children.
- Do not cover the tool with a solid plastic sheet. Plastic coverings trap moisture around the tool, which causes rust and corrosion.

DISPOSAL



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Product does not start	Product is unplugged	Verify that the product is plugged into an electric outlet
	Power cord or plug is defective	Have the power cord or plug checked by a qualified electrician
	Other electrical defect	Have the product checked by a qualified electrician or an authorized service point
	Improper startup sequence is performed	Press the safety button first and then pull the switch trigger
	Product is overheated	Remove grass that accumulated around the scarifying and raking device. Allow the product to cool down before starting it again.
Product does not reach full power	Unsuitable extension cord	Use a suitable extension cord
	Air vents are blocked	Clean the air vents
Working result is unsatisfactory	Cutting and raking device is worn	Replace with a new one
	Scarified material exceeds the capacity of the product	Only scarify materials according to the capacity of the product
	Working height is incorrect	Adjust the working height
Vibration or noise is excessive	Bolts or knobs are loose	Tighten bolts or knobs

