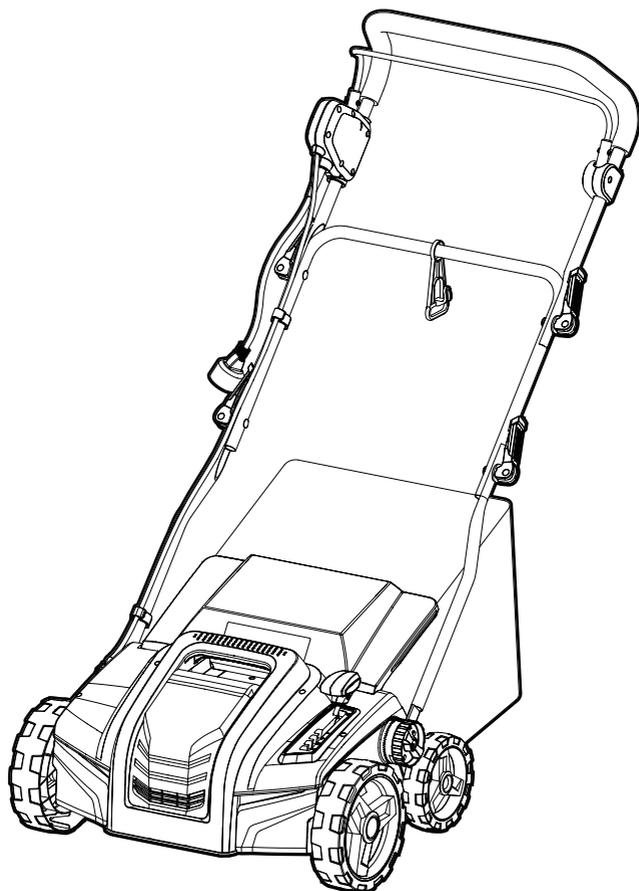


STEELITE

DG595

16-INCH ELECTRIC DETHATCHER & SCARIFIER



Please read this manual carefully before use
and keep it in a safe place

Read all instructions

This scarifier has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

DANGER: People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Safety symbols

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

WARNING: Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as “DANGER,” “WARNING,” and “CAUTION” before using this tool. Failure to follow all instructions listed in this manual may result in electric shock, fire and/or serious personal injury.

Symbol signal meaning

SAFETY ALERT SYMBOL: Indicates DANGER, WARNING, OR CAUTION; may be used in conjunction with other symbols or pictographs.

DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Damage prevention and Information Messages

These inform the user of important information and/or instructions that could lead to equipment or other property damage if they are not followed. Each message is preceded by the word “NOTICE”, as in the example below:

NOTICE: Equipment and/or property damage may result if these instructions are not followed.

WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.



! WARNING: The operation of any power tools can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shield and a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

Save these instructions

Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
min	Minutes	Time
~	Alternating Current	Type of current
==	Direct Current	Type or a characteristic of current
n ₀	No-load Speed	Rotational speed, at no load
	Class II Construction	Double-insulated construction
	Safety Alert	Precautions that involve your safety.
.../min	Per Minute	Revolutions, strokes, surface speed, orbits, etc., per minute
	Read The Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.
	Wear Ear Protection	Noise may damage your hearing. Always wear sound barriers (ear plugs or ear muffs) to protect your hearing.
	Do Not Expose to Rain	Do not expose the unit to rain or wet conditions.
	Wear A Dust Mask	To reduce dust inhalation, please wear a dust mask.

	<p>Wear Protective Gloves And Non-slip Footwear</p>	<p>Wear protective gloves and non-slip footwear when using the machine and handling debris.</p>
	<p>Look Behind While Backing</p>	<p>Look down and behind first to avoid tripping when pulling back.</p>
	<p>Inspect The Work Area Alert</p>	<p>Inspect the work area prior to use and remove all objects that could be thrown by the appliance. If a hidden object is discovered while working, stop the motor and remove the object.</p>
	<p>DANGER — Keep Hands and Feet Away</p>	<p>To reduce the risk of injury, keep hands and feet away from rotating parts. Do not operate unless discharge cover or grass bag is in its proper place. If damaged, replace immediately.</p>
	<p>DANGER — Rotating blades</p>	<p>Keep hands and feet away from moving parts.</p>
	<p>SWITCH OFF Alert</p>	<p>Remove plug from outlet before cleaning or conducting maintenance checks.</p>
	<p>SWITCH OFF Alert</p>	<p>Remove plug from outlet immediately if the cord is damaged or cut.</p>
	<p>DANGER — Keep Bystanders Away</p>	<p>Do not operate the appliance when children or others are around.</p>
	<p>DANGER — Do not push down stairs.</p>	<p>Do not push down stairs.</p>
	<p>DANGER — Thrown Debris</p>	<p>Remove objects that can be thrown by the blade in any direction. Wear safety glasses.</p>

General power tool safety warnings!

WARNING: Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Before using the lawn scarifier, take the time to familiarize yourself with the controls, especially how to stop the machine in an emergency. The only individuals who should use the scarifier are those who have a thorough understanding of the instructions and who know how to operate the machine. Children should never be allowed access to the lawn scarifier.

General safety

- Keep work area clean and well-lit – Cluttered, dark areas invite accidents.
- Replacement parts – When servicing this unit, use only identical replacement parts. Replace or repair damaged cords immediately.
- Keep children, bystanders, and pets away – All bystanders, including pets, should be kept a safe distance away from the work area.
- Dress properly – Do not wear loose clothing or jewelry as such articles can get caught in moving parts. Wear a protective covering to contain long hair. Wearing rubber gloves and substantial non-slip footwear is recommended when working outdoors.
- Avoid accidental starting – Do not carry the lawn scarifier with your finger on the switch. Make sure the switch is off before plugging in the unit.
- Do not force the tool – It will perform better with less likelihood of personal injury or mechanical damage if it is used at the rate for which it is designed.
- Wear personal protective equipment – When using this tool, wear safety glasses with side shields or goggles to provide necessary eye protection. Wear earmuffs or earplugs to prevent hearing damage. Use a face or dust mask if the work environment is dusty.
- Disconnect the tool – Disconnect the lawn scarifier from the power supply when it is not in use, before servicing it, when changing accessories, and when performing any other maintenance task.
- Store idle tool indoors – When not in use, the lawn scarifier should

be stored indoors in a dry and high or locked-up place out of the reach of children.

- Maintain the lawn scarifier with care – Keep cutting edges sharp and clean for optimal and safest performance.
- Inspect the lawn scarifier cord periodically and if damage is found have it repaired by an authorized service facility. Extension cords should also be inspected periodically and immediately replaced if damaged.
- Keep handles dry, clean and free from oil and grease.
- Use the right tool – Do not use the tool for any job except that for which it is intended.
- Avoid dangerous environments – Do not use the lawn scarifier in rain, damp, or wet locations.
- Stay alert – Watch what you are doing. Use common sense. Do not operate the lawn scarifier when you are tired or under the influence of drugs, alcohol, or other medication.
- Do not overreach – Keep proper footing and balance at all times.
- Check Damaged Parts – Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

Electrical safety

- Ground fault circuit interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the scarifier. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
- To prevent electric shock, use only with an extension cord suitable for outdoor use, such as SW-A, SOW-A, STW-A, STOW -A, SJW-A, SJOW -A, SJTW -A, or SJTOW -A.
- Before use, check that the extension cord is in good condition. When using an extension cord, make sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.



WARNING



Electric shock may cause SEVERE INJURY or DEATH. Heed these warnings:

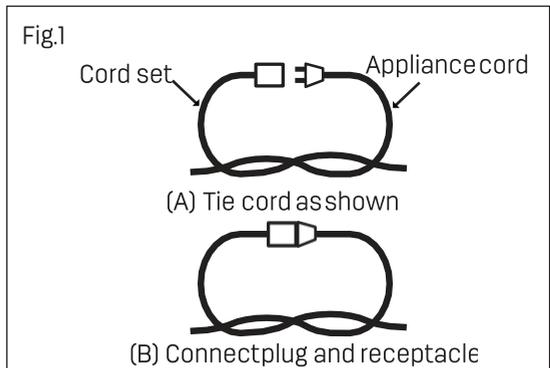
- Do not allow any part of the electric lawn scarifier to make contact with water while it is in operation. If the appliance becomes wet while turned off, wipe dry before starting.
- Use only a UL-, CSA-, or ETL-rated extension cord for outdoor, all-weather use.
- Do not use an extension cord over 100 ft (30 m).
- Do not touch the appliance or its plug with wet hands or while standing in water. Wearing rubber boots offers some protection.

Extension Cord Length	Up to 50 ft (15 m)	+50 ft - 100 ft (+15 m - 30 m)
Wire Gauge (A.W.G.):	14	12

- To reduce the risk of electric shock, this appliance has a polarized plug (i.e. one blade is wider than the other). Use this appliance only with a polarized, UL-listed (CSA certified in Canada) extension cord recommended for outdoor use. The appliance plug will fit into a polarized extension cord only one way.

If the appliance plug does not fit fully into the extension cord, reverse the plug. If the plug still does not fit, obtain a correct polarized extension cord. A polarized extension cord will require the use of a polarized wall outlet. The extension cord plug will fit into the polarized wall outlet only one way. If the plug does not fit fully into the wall outlet, reverse the plug. If the plug still does not fit, contact a qualified electrician to install the proper wall outlet. Do not modify the appliance plug, extension cord receptacle or extension cord plug in any way.

- To prevent the appliance cord from disconnecting from the extension cord during operation, make a knot with the two cords as shown in Fig 1.



- Do not abuse the cord. Never pull the scarifier by the cord or yank the cord to disconnect it from the receptacle. Keep the cord away from heat, oil and sharp edges, especially the rotating tines. Position the cord so that it will not get caught on lumber, tools or other obstructions while working with the scarifier. Failure to heed these warnings can result in serious personal injury.

Personal safety

- Stay alert, watch what you are doing and use common sense when 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hardhat or hearing protection used for appropriate conditions will reduce personal injuries.
- 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 energizing power tools that have the switch on invites accidents.
- 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.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- 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.
- Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Power tool use and care

- 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.
- 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.

- Disconnect the plug from the power source and/ or remove the battery pack, if detachable, 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.
- 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.
- Maintain power tools and accessories. 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Safety instructions for lawn scarifier

General operation

- Read, understand and follow all instructions on the machine and in the manual(s) before starting.
- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.

WARNING: Foreign objects in the work area can be picked up by the lawn scarifier and launched into your eyes, which can result in severe personal injury. In addition to surveying the area and removing foreign objects before beginning work, always wear safety goggles or safety glasses with side shields and, when necessary, a full face shield.

- Use the electric lawn scarifier only in daylight or good artificial light.
- Do not operate the equipment without wearing adequate outer garments. Wear protective footwear that will improve footing on slippery surfaces.
- Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors (Refer to chapter "ELECTRICAL SAFETY").
- Never attempt to make any adjustments while the motor is running.
- Never operate the lawn scarifier in wet grass.

- Always be sure of your footing. Walk, never run, with the machine.
- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic.
- Exercise caution to avoid slipping or falling.
- Stop the motor and disconnect the power supply when leaving the operating position, before unclogging the tines and when repairing, adjusting, inspecting or performing any other maintenance on the machine.
- Take all necessary precautions when leaving the machine unattended. Stop the motor and remove the power cord.
- Before cleaning, repairing or inspecting the unit, shut off the motor, disconnect the power supply and wait until all moving parts have come to a complete stop.
- Never operate the machine without proper guards, plates or other safety protective devices in place and in proper working order.
- Keep children and pets away.
- Do not overload the machine capacity by attempting to detach too deep at too fast a rate.
- Never operate the machine at high transport speeds on hard or slippery surfaces.
- Never allow bystanders near the unit when operating.
- Use only attachments and accessories approved by the manufacturer of the machine.
- Never operate the machine without good visibility or light.
- Be careful when cultivating in hard ground. The tines may catch in the ground and propel the machine forward. If this occurs, let go of the handle and the switch lever and do not restrain the machine.
- Use extreme caution when reversing or pulling the machine towards you.
- Stop the tines if the machine has to be tilted for transportation. Do not operate the tines when crossing surfaces other than grass, and when transporting the product to and from the working area.
- Do not tilt the machine when switching on the motor, except if the product 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.
- Do not start the motor when standing in front of the discharge opening.
- Switch on the motor carefully according to the instructions and keep your feet clear of the rotating tines.
- Never pick up or carry the machine while the motor is running.
- Stop the motor and disconnect the machine from the power supply:

- before clearing blockages or unclogging the discharge opening;
 - 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);
 - whenever you leave the machine.
- Never use the scarifier without the collection bag securely fitted.

WARNING: Beware of sharp tines. Tines continue to rotate for a few seconds after the motor is switched off.

Slope operation

Slopes are major factors related to slip and fall accidents, which can result in severe injury. Operation on all slopes requires extra caution. If you feel uneasy on a slope, do not dethatch it.

- Dethatch across the face of slopes; never dethatch slopes following an up and down traverse. Exercise extreme caution when changing direction on a slope.
- Watch for holes, ruts, bumps, rocks or other hidden objects. These may cause an unexpected slip or fall.
- Do not dethatch on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident.
- Do not dethatch near drop-offs, ditches or embankments. You could lose your footing or balance.

Children safety

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the dethatching activity. Never assume that children will remain where you last saw them.

- Keep children out of the dethatching area and under the watchful care of a responsible adult other than the operator.
- Stay alert and turn the scarifier off if a child enters the area.
- Never let children operate the machine.
- Use extra care when approaching blind corners, shrubs, trees or other objects that may block your view of a child.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account 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 application tools for the product and ensure they are in good condition.
- Keep tight grip on the handles/grip surface.
- Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
- Plan your work schedule to spread any high vibration tool use across a number of days.

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:

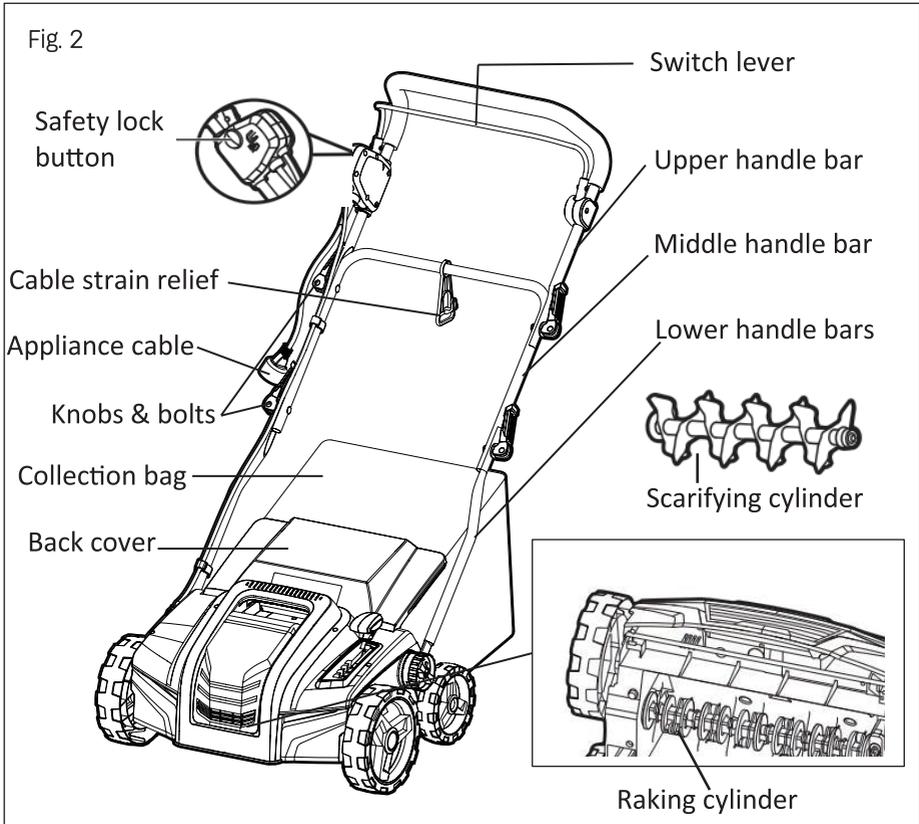
- Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
- Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
- Danger of injury and property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

WARNING: This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Save these instructions!

Description

KNOW YOUR LAWN SCARIFIER (Fig. 2)



Specifications

Model	DG595
Voltage	120V $\overline{\text{---}}$ 60Hz
Rated Current	15 A
No-Load Speed	3500 RPM
Scarifying (raking) Width Max	16 IN (40 cm)
Scarifying (raking) Depth	-1/2 IN - +1/4 IN (-12 mm - +6 mm)
Collection bag Capacity	11.9 gal (45 L)

WARNING: The safe use of this product requires an understanding of the information on the tool and in this operator's manual, as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

SAFETY LOCK BUTTON

The safety lock button must be pressed down before the motor can be started.

SWITCH LEVER

The switch lever is located on the upper handle of the tool. The switch turns the tool on and off.

CABLE STRAIN RELIEF

Prevents the extension cord from disconnecting from the power cord when the tool is in use.

DEPTH ADJUSTMENT LEVER

Adjusts the scarifying/raking depth according to the needs of your lawn.

SCARIFYING CYLINDER

Intended for scarifying.

RAKING CYLINDER

Intended for lawn dethatching.

Unpacking

WARNING: If any parts are damaged or missing, do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

WARNING: Do not attempt to modify this product or create accessories not recommended for use with this machine. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

WARNING: Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

Unpacking

- Carefully remove the tool and any accessories from the carton. Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure that no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please return the product to the place of purchase.

Packing list

- 1 - Lawnscarifier
- 2- Knobs(4) and bolts(4)
- 3 - Angle knobs(2) + adjusting gear wheels(2)
- 4 - Middle handle bar
- 5 - Lower handle bars(2)
- 6 - Collection bag
- 7 - Cable clips(2)
- 8 - Hex key
- 9 - Scarifying cylinder (installed into the machine)
- 10 - Raking cylinder
- 11 - Cable strain relief
- 12 - Operator's manual

Operation

⚠ WARNING: Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

⚠ WARNING: Always wear eye protection with side shields marked to comply with ANSI Z87.1, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.

⚠ WARNING: Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

NOTICE: Before each use, inspect the entire product for damaged, missing, or loose parts, such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced.

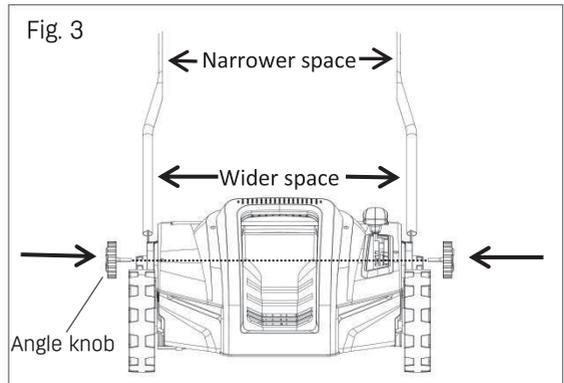
Assembly

⚠ WARNING: Do not connect the law scarifier to the power supply until assembly is complete. Failure to comply could result in accidental starting and severe personal injury.

Always wear gloves during assembly.

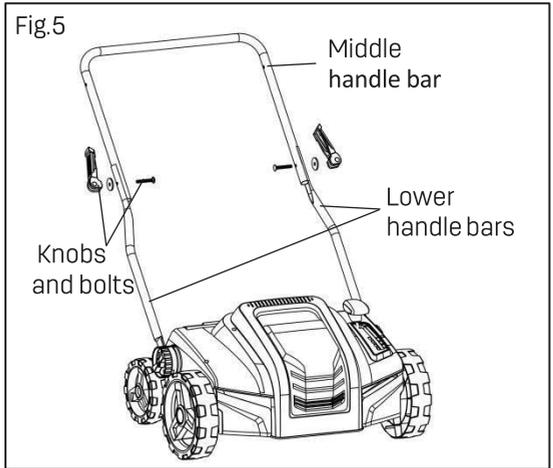
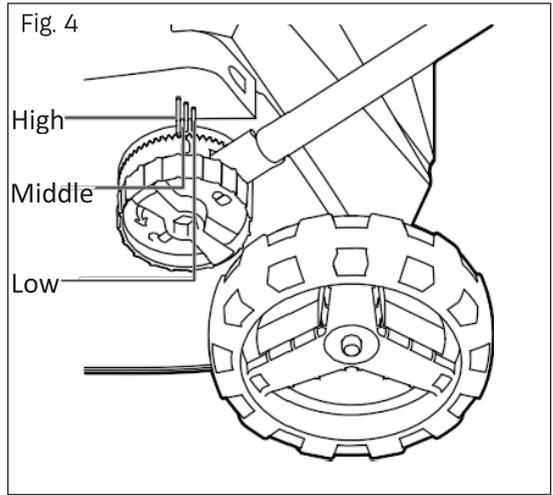
Connect the handle bars (fig. 3 -8)

1. Insert the lower handle bars into the adjusting gear wheels. Pay attention to the orientation of the bars. The space between the two bars at the bottom should be wider than the top part. (Fig. 3)
2. Align the holes in the lower handle bars and adjusting gear wheels with the angle knobs protruding from the scarifier. Thread the lower handle bar and adjusting gear wheels onto the bolts and secure them with the angle knobs as shown in Fig. 3.

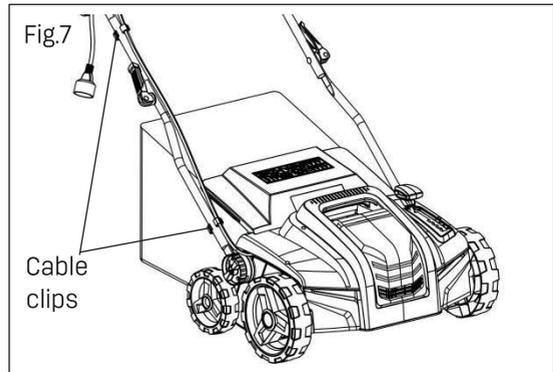
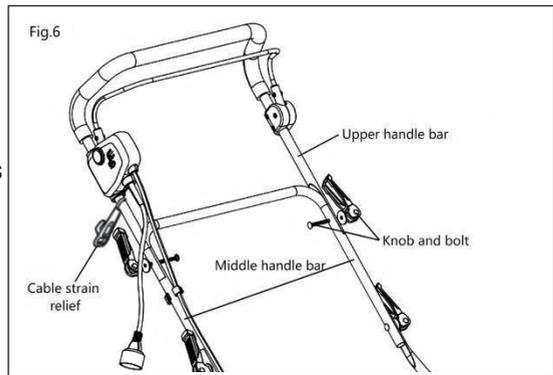


NOTE: Adjust the lower handle bars to the desired angle for comfortable height by aligning the line on the adjusting gear wheel with one of the three lines on the lawn scarifier body (Fig. 4). Make sure both handle bars are positioned at the same angle.

3. Attach the middle handle bar to the lower handle bars using two sets of knobs and bolts as shown in Fig. 5. Tighten the knob on each side to ensure a secure fit.



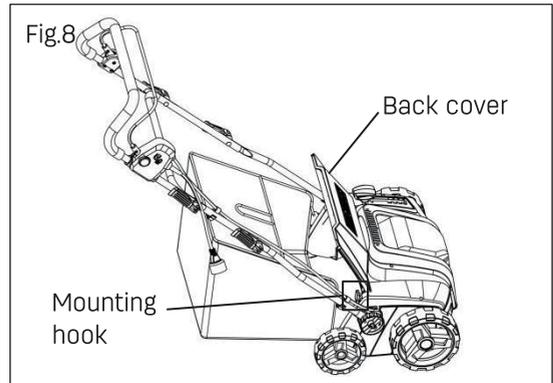
4. Pass the cable strain relief through the upper handle bar first. Connect the upper handle bar to the middle handle bars using two sets of knobs and bolts as shown in Fig. 6. Tighten the knob on each side to ensure a secure fit.
5. Secure the cable to the bars with the included cable clips (Fig. 7).



Attach collection bag (Fig. 8)

WARNING: Do not attempt to use the product without the collection bag attached. This could pose a danger of flying debris.

WARNING: The product must be switched off and the cutting device must have stopped rotating before you attach or remove the collection bag.



NOTICE: A full collection bag will reduce the performance of this product. Attach the collection bag to the lawn scarifier before operation.

Lift the back cover and hang the collection bag onto the mounting hooks (Fig. 9).

Remove and empty the collection bag (Fig. 9)

Empty the collection bag frequently during use. Do not wait until it is completely full. We recommend emptying it when it is half full.

1. Lift the back cover and pull the collection bag off the mounting hooks to remove it.
2. Empty the bag's contents into a suitable waste receptacle.
3. Reattach the bag back into position before resuming work.

Intended use

1. This lawn scarifier is equipped with a 13 -amp motor. Depending on the installed cylinder, this machine is either intended for scarifying and removing thatch from lawns or dethatching of domestic and hobby gardens.

NOTE: the machine is shipped with the dethatching cylinder installed.

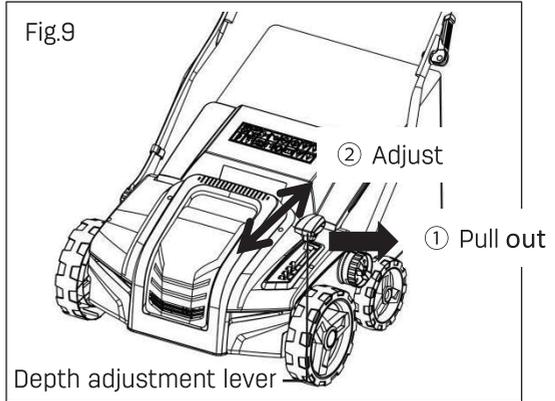
2. When used as a scarifier, this machine works by scratching through and between the grass with specially adapted prongs that collect and remove any unwanted parts from the lawn while leaving the grass blades intact. At the same time the machine scarifies the ground resulting in a better aeration.
3. When used as a dethatcher, the fine needles will scratch the surface of the lawn while simultaneously picking up light debris for better oxygen absorption, aerating, and drainage.
4. This machine 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 machine 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.

Operation

ADJUST cutting depth (Fig. 9)

WARNING: The unit must be switched off and disconnected from the power supply before adjusting the depth setting.

Adjust the depth according to the needs of your lawn. The most suitable depth depends on the kind of lawn and the actual height of the grass.



1. To raise the cutting depth, grasp the depth adjustment lever and move it toward the back of the scarifier (Fig. 9).

To lower the cutting depth, grasp the depth adjustment lever and move it toward the front of the scarifier (Fig. 9).

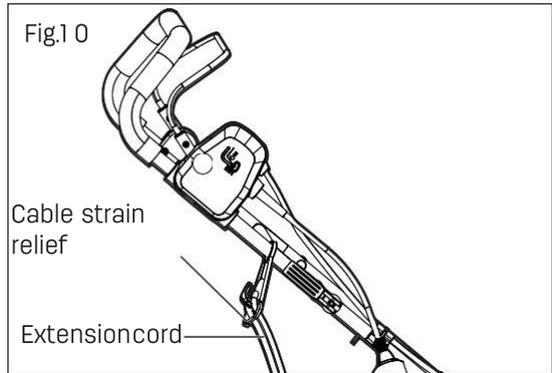
2. Adjust the lever to one out of the five stages. Refer to the table below.

Scale	Depth
0	1/4" (6 mm)
1	-1/8" (-3 mm)
2	-1/4" (-6 mm)
3	-3/8" (-9 mm)
4	-1/2" (-12 mm)

Connect to extension cord (fig. 1 0)

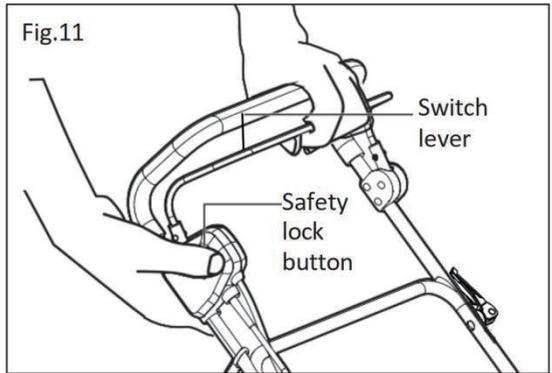
Use a proper outdoor extension cord (see the chapter "ELECTRICAL SAFETY").

Push a loop of the extension cord (not included) through the slot on the extension cord restraint holder from the opposite side of the restraint holder (Fig. 1 0). Insert the appliance cord into the extension cord outlet.



Start/ stop the tool (Fig. 11)

WARNING: Before switching on the lawn scarifier, make sure that it is not in contact with any foreign objects. Keep your feet and hands a safe distance away from the rotating cylinder and the rear door. Failure to comply with these warnings can result in severe personal injury.



1. To start, press and hold the safety lock button, then pull the switch lever toward you. Once the tool is on, release the safety lock button and proceed with operation (Fig. 11).
2. To stop the tool, release the switch lever.

WARNING: The cylinder continues to rotate for a brief period after the motor has been switched off. Do not tilt or carry the unit while the motor is still running and do not touch the cylinder while it is still rotating. Failure to comply could result in severe personal injury.

Overload protection

The overload protection will automatically turn off the tool in the following circumstances:

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

When the overload protection has been activated, switch off the tool and disconnect from the power supply.

Let the tool cool down and eliminate the cause before starting the tool again.

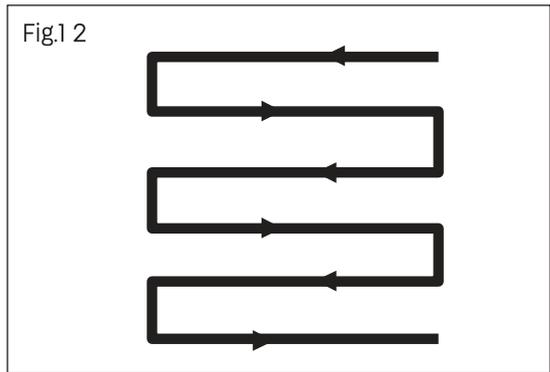
General protection

WARNING: If the tool strikes a foreign object, switch the motor off, disconnect it from the power supply and let it cool down. Inspect the tool thoroughly for damage. Have any damage repaired before restarting.

WARNING: Extensive vibration of the tool during operation is an indication of damage. The tool should be promptly inspected and repaired.

- Check the machine, its power cord, and plug, as well as accessories for damage before each use. Do not use the machine if it is damaged or shows wear.
- Double check that accessories are properly fixed.
- Push the machine forward by its handle. Keep the handle dry to ensure safe support.
- 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 machine.
- Switch the machine off immediately if you are disturbed while working by other people entering the working area. Always let the machine come to complete stop before letting go of the handle.
- Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the machine.
- Mow the lawn before working and fertilize afterwards.
- Make sure that the lawn is clear of stones, sticks, wire, or other objects that could damage the machine or its motor.
- Select the suitable operating depth for the actual grass height.
- Do not work with this machine on a wet lawn because it tends to stick to the underbody of the machine, preventing the proper discharge of collected material, and it could also cause you to slip and fall.
- Slowly push the machine forward. Move the machine at appropriate speed. Do not move it too fast to prevent the discharge from getting blocked and engine from useless overload.

- Work in slight overlapping rows. The most effective pattern for scarifying/dethatching lawns is straight lines along one of the sides. This will keep the rows even and ensures that the entire lawn is scarified/dethatched without missing any spots (Fig. 1 2).
- Circle around flower beds. When reaching a flower bed in the middle of the lawn, make a row or two around the circumference of the bed.
- Pay special attention when changing direction.



Scarify

In order for a healthy lawn to develop in the spring, it is necessary for greater amounts of air to penetrate the area around the roots of the grass. We recommend scarifying the lawn every 4 – 6 weeks depending on the state of your lawn.

Dethatch

Consider the weather when dethatching. Dethatch the lawn with an increased depth setting during springtime between April and May as the lawn is better able to recover during this season. During a wet summer dethatch again in late summer with a decreased depth setting. Do not dethatch during periods of hot weather condition. During a dry rainless summer do not dethatch a second time in autumn.

Maintenance

WARNING: Before carrying out any repairs or servicing work, you must ensure that the machine has been disconnected from the power supply.

WARNING: Repairs and maintenance work other than described within this instruction manual must be performed only by qualified specialist!

Service and storage

To ensure long and reliable service, carry out the following maintenance regularly. Servicing and cleaning work on the machine and the removal of the guards may only be carried out after the motor has been switched off and the plug disconnected from the power supply.

- Keep all nuts, bolts and screws tight to be sure the product is in a safe working condition.
- Allow the product to cool before storing in any enclosure.
- Check the collection bag frequently for wear or deterioration.
- Examine the product regularly and replace worn or damaged parts for safety.
- Check that covers and guards are undamaged and correctly fitted. Carry out necessary maintenance or repairs before using the machine.
- If the machine happens to fail despite the care taken in manufacturing and testing, repairs should be carried out by an authorized repair facility.
- Do not clean the machine while it is running.
- Ensure that all the fasteners (screws, nuts, etc.) are tight at all times so that you can safely operate the machine.
- Store your machine in a dry place. To ensure a long service life all screws and bolts should be cleaned and then oiled.
- Clean the machine with a brush or cloth. Do not use any solvents or water to remove dirt.
- The component that is subject to most wear is the (scarifier or scarifying) cylinder. You should therefore check the condition of the cylinder and its mounting at regular intervals.
 - If the cylinder is worn or blunt it must be replaced immediately.
 - If the machine starts to suffer from excessive vibrations, this means that the cylinder has not been balanced correctly or has suffered deformation due to impacts. In this case it must be repaired or replaced.

Replace/ change cylinder (Fig. 13-16)

WARNING: Always switch the machine off, disconnect it from power supply and let it cool down before changing/ replacing the cylinder.

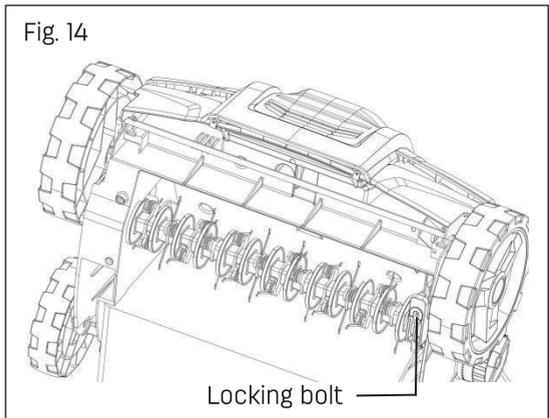
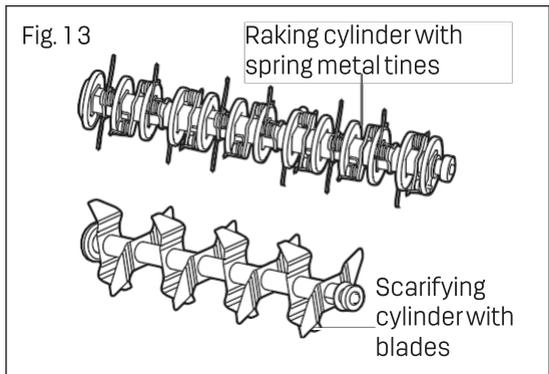
WARNING: Cylinders are very sharp and become hot during use. Handle them carefully.

WARNING: Wear safety gloves when handling the cylinders in order to avoid injuries like burns and cuts.

WARNING: Make sure all bolts are completely tightened before operating the machine. Don't operate the machine if any bolts are missing, loose, or damaged.

The product has two functions, scarifying or dethatching. The scarifying cylinder is factory-installed on the machine. The dethatching cylinder is included in the box. The cylinder can be changed according to the application (Fig. 14).

1. Turn the machine off, disconnect it from power supply, and allow it to cool down. Wear safety gloves.
2. Remove the collection bag.
3. Place the machine upside down on a flat stable surface to access the underbody.
4. Loosen the locking bolt with the provided hex key, remove the locking bolt together with the cylinder (Fig. 14). Do not discard the locking bolt!
5. To remove the cylinder, first lift the bearing seat and then pull it out from the drive shaft.



6. Align and insert the replacement cylinder: Slide the hex nut into the socket of the drive shaft and fix the bearing seat to the support with the locking bolt (Fig. 15).

WARNING : Make sure the cylinder is inserted properly. Make sure the semi-circle on the bearing seat of the cylinder faces downward into the unit. If the semi-circle is face up, it has been inserted incorrectly (Fig. 16).

After use

1. Switch the machine off, disconnect it from the power supply and let it cool down.
2. Turn the lawn scarifier on its side to clean the cylinder area.

NOTE: Due to heavy use or when the grass is wet, clippings tend to stick to and accumulate around the cylinder, which will cause overheating. To prevent this, clean the cylinder of all the grass clippings after every use.

3. Store the lawn scarifier in a dry place. Do not place other objects on top of the lawn scarifier during storage.

Collection bag

1. Inspect the collection bag before each use. Do not use it if you find any damage.
2. Clean the collection bag after operation. To avoid mildew, let the collection bag dry thoroughly before storing.

Transportation

1. Switch the product off and disconnect it from power supply before transporting it anywhere.
2. Adjust the cutting depth to "0" position (refer to the chapter "ADJUST CUTTING DEPTH").
3. Always transport the product by its handle.
4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
5. Secure the product to prevent it from slipping or falling over.

Fig. 15

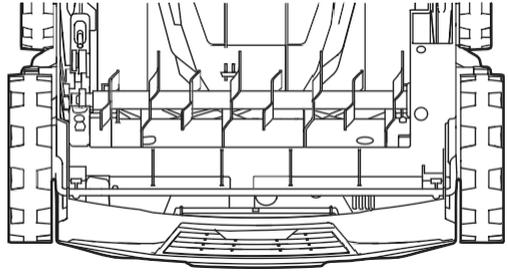
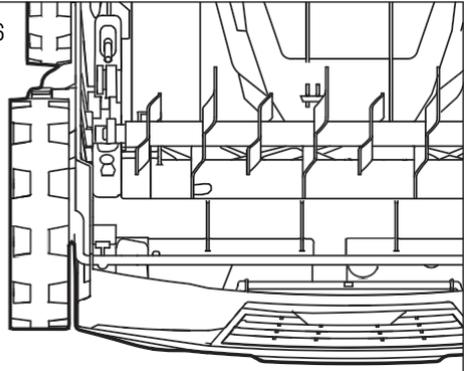


Fig. 16



Troubleshooting

PROBLEM	CAUSE	SOLUTION
Motor does not start	1. Not connected to power supply.	1. Connect to power supply.
	2. Power cord or plug is faulty.	2. Contact an authorized service agent.
	3. Other electrical malfunction.	3. Contact an authorized service agent.
	4. Safetylock button not pressed.	4. Press Safety lock button first, then pull the switch lever.
	5. The machine is overheated.	5. Clean the grass clippings around the cylinder. Wait a while for the machine to cool down, then restart again.
Product does not reach full power/speed	1. Extension cord not suitable for operation with this machine.	1. Use a proper extension cord. Refer to chapter "ELECTRICAL SAFETY".
	2. Air vents are blocked.	2. Clean the air vents.
Unsatisfactory results	1. Worn cylinder.	1. Replace the cylinder. Refer to chapter "REPLACE/CHANGE CYLINDER".
	2. Scarified lawn exceeds capacity.	2. Only scarify lawns according to capacity of the product.
	3. Scarifying depth is incorrect.	3. Adjust depth.

STEELITE

Product Warranty Card

Dear users :

Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product failures due to quality problems.

Warranty Notice:

1. We will provide a 2-year limited warranty for the machine and a 1-year limited warranty for the battery, starting from the date of your purchase.
2. This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.
3. In one of the following cases, free warranty service will be invalid, and maintenance fees will be required:
 - (1) Exceed the expiration date.
 - (2) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage.
 - (3) Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company.
 - (4) Machine breakdown or damage caused by force majeure.
 - (5) Consumable accessories.

This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

Purchase Date: _____ (Year/Month/Day)

Product Certificate

Inspector:

01

Date of manufacture:

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