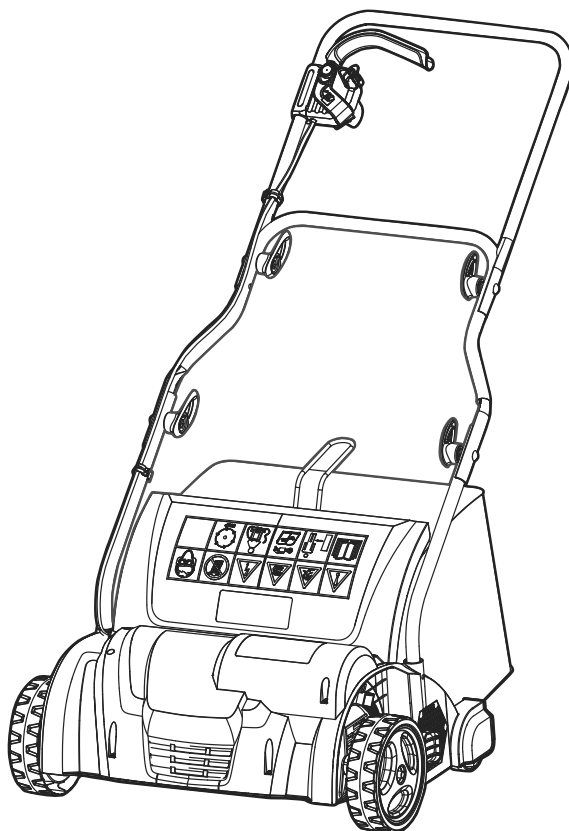


LawnMaster®

Instruction Manual

33cm 1350W 2-in-1 Scarifier and Raker GV1333B Combo



Original Instructions



WARNING: Read all safety instructions carefully before assembling and operating this machine. Ensure the machine has been assembled correctly and safely. Keep the instructions safe and pass them on to any subsequent user so that the information is always available.



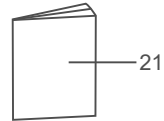
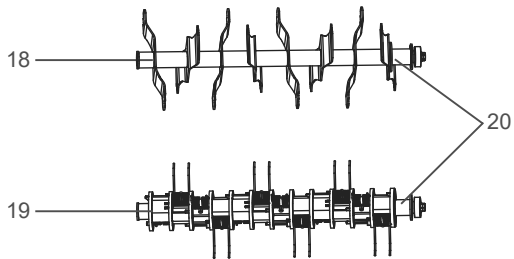
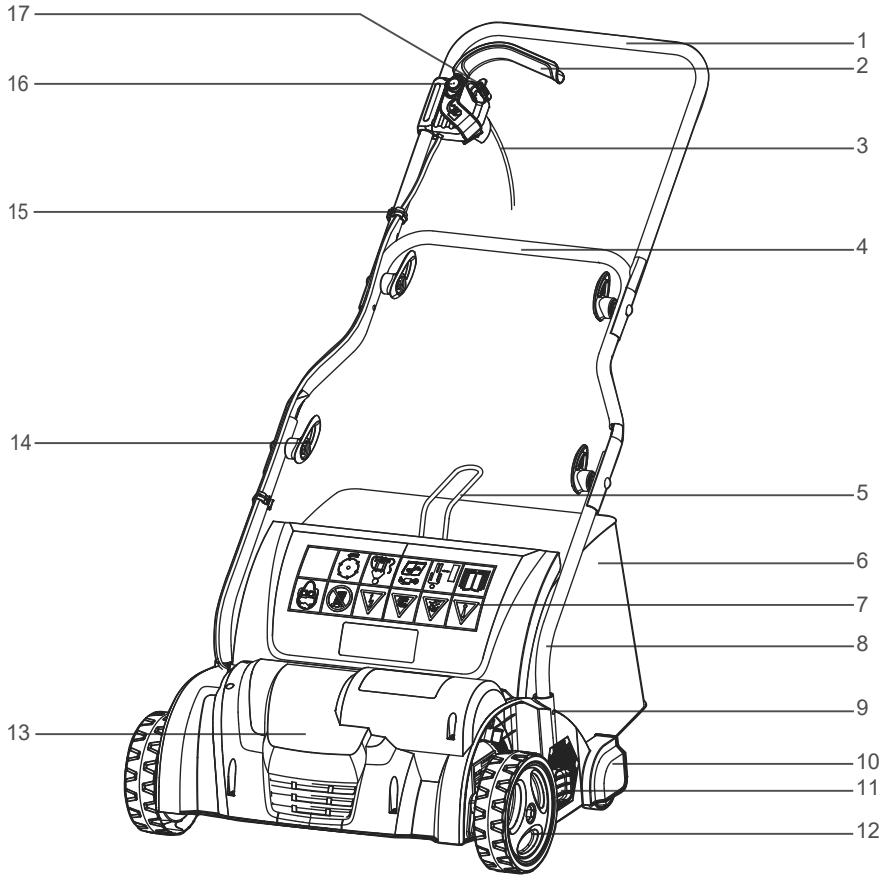









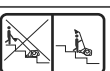






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SYMBOLS

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

SYMBOL	DESIGNATION/EXPLANATION
	Caution
	Read instruction manual.
	Keep bystanders away.
	Beware of thrown objects.
	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.
	WARNING! Beware of electric shocks. Keep power cord away from tines.
	Do not use the machine or leave it outdoors when it is raining.
	Wait until all moving parts have stopped completely before touching them. The cutting tools may continue to rotate after the machine is switched off. Rotating cutting tools can cause injury.
	Wear eye and ear protection (PPE).
	Take care with steps! Turn off the power when the machine is to be carried up/down steps!
	Noise level specification LWA in dB.
	Protection class II (Double insulation)
	Electrical appliances must not be disposed of with the domestic waste.
	Working width

SYMBOLS



WARNING

To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the instruction manual.

If you do not understand the warnings and instructions in the instruction manual, do not use this product.

SAFETY INFORMATION



IMPORTANT

When using equipment, the following safety precautions must be followed to avoid injuries and damage:

- Read all operating instructions carefully and comply with them. It is important to understand these instructions and to acquaint yourself with the machine, its correct usage and all safety requirements.
- Keep this manual in a safe place so that the information is available to the operator at all times.
- If you give the equipment to any other person, give them these operating instructions as well.
- We accept no liability for damage or accidents which result from non-compliance with these instructions.

IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

Intended usage

- This machine is used:
 - As a lawn rake to rake leaves, moss and weeds out of the lawn, and to collect these leaves and plant residues;
 - As a scarifier to deeply cut through grass thatch to the topsoil layer and help regenerate the lawn.
- This appliance is not suitable for commercial use. Commercial use will void the warranty.
- Any other use that is not specifically approved in these instructions can result in damage to the machine and could be a serious danger to the user.

SAFETY INFORMATION

- The machine must only be operated by adults. Children and people who are not familiar with these instructions must not be allowed to use this machine. Never operate this machine while it is raining and in a wet environment.
- The owner or operator is responsible for accidents or harm to people and their property.
- The manufacturer cannot be held liable for damage caused by incorrect operation of the machine or if it is not used in conformity with its intended purpose.

Operating the machine



WARNING

The machine can cause serious injuries. To avoid accidents and injuries:

Preparations:

- Never allow children and people who are not familiar with these operating instructions to use the machine. Local regulations may stipulate a minimum age for operators.
 - This device can be used by individuals with reduced physical, sensory or mental capabilities, or a lack of experience or knowledge, if they are supervised or have been instructed in how to use the device safely and understand the associated dangers. Children must not play with the device.
 - Never start up the machine while other people, but especially children and pets, are in the vicinity.
 - Check the area on which the machine is to be used. Remove all stones, sticks, wire and other foreign bodies
-

SAFETY INFORMATION

that could be caught up and flung out. Never use the machine to level out uneven patches.

- Wear ear protection and safety glasses at all times while operating the machine.
- Always wear appropriate protective work clothes and firm shoes with non-slip soles, strong long trousers, ear defenders and goggles. Never operate the machine while bare footed or when wearing open-toed sandals.
- Never operate the machine if it is damaged, incomplete or has been modified without the consent of the manufacturer. Never work with damaged or missing protective devices (e.g. starting lever, safety lock-off button, safety guard).
- Never disengage protective devices (e.g. by tying the starting lever).
- Children must be supervised in order to ensure that they do not play with the equipment.
- Before starting the equipment, ensure that no objects or branches are pushed into the blade opening, that the equipment is stable, and that the workspace is tidy and not blocked.
- Check the condition of your extension cable and the connecting cable of your equipment. Use the necessary protective equipment. 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.
- Operate the machine in a recommended position and only on a firm, level surface.
- Do not operate the machine on a paved or gravel surface where ejected material could cause injury.

SAFETY INFORMATION

- Before starting the machine, check that all screws, nuts, bolts, and other fasteners are properly secured, and that guards and screens are in place. Replace damaged or unreadable labels.
- If your equipment vibrates or emits unusual noises when switched on, disconnect the plug from the socket and check the cutting cylinder. Ensure that no remains of vegetation are blocking the cutting cylinder or are jammed between the blades. If you find no problems, contact the helpline.
- If the blades no longer cut correctly or if the motor is overloaded, check all the parts of your equipment and replace the worn parts. If a more extensive repair is required, contact the helpline.

Use:

- **CAUTION** – A very sharp tool. Avoid cutting your fingers or toes. While working, always keep your feet and fingers well away from the cutting cylinder and the ejector opening. There is danger of serious injury!
- Do not operate the machine while it is raining, in poor weather conditions, or when the surrounding area and lawn are wet. Operate the machine only during daylight hours or with bright artificial lighting.
- Do not operate the machine if you are tired or are lacking in concentration, or after having drunk alcohol or taken medicine. Always take a work break in due time. Approach the work with common sense.
- Familiarise yourself with the terrain and remain focused on the potential hazards that you could miss on account of the motor noise.

SAFETY INFORMATION

- Always maintain a secure footing while working, especially on a sloping terrain. Always work across slopes – never up and down! Be particularly careful when changing the travelling direction. Do not work on very steep slopes.
- Walk, never run.
- Always guide the machine at a walking pace with both hands on the handle. Be especially careful when you turn the machine around or draw it towards you. Danger of stumbling!
- Start or actuate the starting lever with care and in conformity with the directions in these instructions.
- Do not tilt the machine when starting, other than when it has to be lifted. In this case, tilt the machine only to the extent that is absolutely necessary and always lift the machine on the side that is opposite to the operator.
- Never operate the machine without the safety guard. Danger of injury! Always keep well away from the ejector opening.
- Do not operate the machine in the vicinity of flammable liquids or gases, as this could give rise to the danger of a fire or explosion.

Work intervals:

- After the machine has been turned off, the cutting cylinder will continue to rotate for a few seconds. Keep hands and feet well away.
- Only remove plant parts when the machine is standing completely still. Ensure that the grass ejector opening is clean and free from debris.
- Switch off the power when the machine is to be transported,

SAFETY INFORMATION

lifted or tilted and when traversing surfaces other than grass.

- Never leave the machine unattended at the place of work.
- Always switch off the machine and disconnect the power plug. Make sure that all moving parts have come to a complete stop:
 - Whenever you leave the machine,
 - Before you clean the ejector opening or unblock or unclog the machine,
 - When the machine is not being used,
 - During all maintenance and cleaning work,
 - When the power cable is damaged or has become tangled,
 - When the machine hits an obstruction during work or when unusual vibrations arise. Establish the cause and see if the machine has been damaged. Do not repair it yourself! Have the machine repaired by a qualified workshop.
- 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.
- Check the debris collector frequently for wear or deterioration.
- On machines with multiple tine assemblies, take care as rotating one tine assembly can cause another tine assembly to rotate.
- Be careful during adjustment of the machine to prevent entrapment of the fingers between moving tine assemblies and fixed parts of the machine.

SAFETY INFORMATION

- Always allow the machine to cool down before storing.
- When servicing the tine assembly, be aware that it can still be moved even though the power source is switched off.
- When servicing the tine assembly be aware that, even though the power source is switched off, the tine assembly can still be moved.
- 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 have 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.
- Store the machine in a dry place, well out of reach of children.



CAUTION

The following states how to avoid damage to the machine and any resulting harm to people:

- Switch off the power when the machine is to be carried up/down steps.
 - Inspect the machine each time before it is to be used. Never operate the machine if safety devices (e.g. safety guard), parts of the mechanism or bolts are missing, worn out or damaged. Check especially the power cable and starting lever for damage. To avoid imbalance, all tools and bolts must be exchanged as complete sets.
 - Only use spare parts and accessories that have been
-

SAFETY INFORMATION

supplied or recommended by the manufacturer. The use of unauthorised parts results in the immediate loss of all guarantee claims.

- Ensure that all nuts, bolts and screws are firmly tightened and that the machine is in a safe working state.
- Never try to repair the machine yourself, other than if you have been trained accordingly. All work that has not been listed in these Instructions must only be carried out by qualified servicing agents.
- Treat the machine with the greatest care. Always keep the tool clean for better and safer work. Follow the maintenance instructions.
- Never overload the machine. Always work within the specified capacity range. Do not use low power machines for heavy-duty work. Do not operate the machine for purposes for which it is not intended.

Electrical safety



CAUTION

The following states how to avoid accidents and injuries due to electric shock:

- Before each use, carry out a visual inspection of the power and extension cables for signs of damage or ageing.
 - If the power cable for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or a similarly qualified person in order to prevent hazards.
 - Keep the power cable well away from the cutting tools.
-

SAFETY INFORMATION

Should the power cable become damaged during work, then instantly disconnect the power cable from the mains. DO NOT touch the power cable before it has been disconnected from the mains.

- Keep the extension cables away from the blades and tines. The blades and tines may damage the cables and result in contact with live parts.
- Check that the mains voltage is the same as indicated on the rating plate.
- Wherever possible, connect the machine to a power socket with a residual-current circuit breaker (RCD) that has a rated current of not more than 30 mA.
- Avoid body contact with earthed parts (e.g. metal fences, metal posts).
- Only use approved extension cables of the type H05VV-F or H05RN-F with a maximum length of 75m and which have been approved for open-air use. The stranded cord diameter of the extension cable must be at least 2.5mm². Always unreel a cable drum to its full length so that the entire cable can be checked for damage.
- Use the cable strain relief when operating the machine.
- Never pull the cable to disconnect the plug from the socket. Protect the cable from heat, oil and sharp edges.
- If the connecting cable is damaged, first disconnect the extension cable from the socket. You can then disconnect the connecting cable of the equipment.

IN THE BOX

1. Upper Handle
2. Starting Lever
3. Power Cable
4. Centre Handle
5. Collection Bag Handle
6. Collection Bag
7. Safety Guard
8. Lower Handle (X2)
9. Phillips Screw (X2, For Mounting Lower Handle)
10. Rear Wheel (X2)
11. Height Adjustment Lever
12. Front Wheel (X2)
13. Motor Cover
14. Wing Knob And Bolt (X4)
15. Cable Clip (X2)
16. Safety Lock-off Button
17. Cable Strain Relief
18. Scarifier Drum With Blade (Pre-Installed)
19. Rake Cylinder With Sprung Tines
20. Instruction Manual

ASSEMBLY

Assembly Preparation

- Carefully remove all contents from the product packaging.
- Ensure you have all the accessories and tool(s) needed for assembly and operation. This also includes suitable personal protective equipment.

WARNING

If any parts are damaged or missing do not operate this product until the parts are replaced. Failure to pay attention to this warning could result in serious personal injury.

WARNING

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

WARNING

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

WARNING

Never operate the machine without the proper safety devices in place and in correct working order. Never operate the machine with damaged safety devices. Failure to pay attention to this warning can result in serious personal injury. Make sure all packing is removed from product parts before starting assembly.

Assembling the Lower Handles (See Fig. 1)

Insert the two lower handles into the motor cover and secure them with the two Phillips screws (Fig. 1).

Assembling the Centre and Upper Handle (See Fig. 2)

- Secure the centre handle to the lower handles with the bolts and wing knobs. Ensure the bolt and wing knob are assembled in the correct method (Fig. 2).
- Secure the upper handle to centre handle with the bolts and wing knobs. Ensure the bolt and wing knob are assembled in the correct method (Fig. 2).
- Use the two cable clips to attach the power cable to the handle frame.

NOTE: During assembly, ensure that the power cable is not squeezed and that it has sufficient play.

ASSEMBLY

Mounting and Emptying the Collection Bag (See Figs. 3-4)



WARNING

Never operate the machine without the safety guard. Danger of injury!

The collection bag must be assembled before it is mounted on the machine.

- Assemble the collection bag frame by connecting the two parts (①) (Fig. 3).
- Pull the collecting bag over the bag frame ensuring the collection bag handle feeds through the hole in the top of the fabric collection bag.
- Pull the plastic clips (②) over the collection bag frame.

Mounting the collection bag on the machine:

- Lift the safety guard.
- Push the pins (③) on the collection bag rods into the socket in the motor cover (Fig. 4).
- Release the safety guard so that it holds the collection bag in its position.

Removing and emptying the collection bag:

Lift the safety guard and take out the collection bag.

NOTE: The rear wheels are swivel-hinged to stabilise the appliance when the bag is full.

OPERATION

NOTE: Please observe local regulations concerning noise protection.

Setting the Working Position (See Fig. 5)

The machine has 4 principal position settings:

Transport position 0 setting

This position sets the maximum height for transportation between the tool and the floor.

Working position 1 setting

Set this position when working with a new machine.

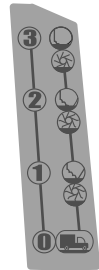
Readjustment positions 2 and 3 settings

The working position can be lowered with increased knife and sprung tine wear. Wear can be identified from an increasingly poor result.

NOTE: When the machine is delivered, it is in the Transport Position setting.

- Check that the appliance is turned off before adjusting the working position.
- Pull up the height adjustment lever. Turn the adjustment lever as appropriate and push it down to snap in. Use your other hand to hold the appliance (Fig. 5).

NOTE: The height adjustment lever is not intended for height adjustment but rather to compensate for wear. Selection of a readjustment position without the corresponding wear can overload the motor and damage the cylinder.



Switching On and Off (See Fig. 6)



WARNING

Before switching on the machine ensure that it is not in contact with any objects. Keep your feet and hands well away from the cylinder and the ejector opening. Danger of injury!

- Place the machine on a level lawn surface.
- Form a loop in the end of the power cord and insert it into the cable strain relief (Fig. 6).
- Connect the machine to the mains voltage.
- To switch on, press the safety lock-off button on the handle and simultaneously press the starting lever. Release the safety lock-off button (Fig. 6).
- To switch off, release the starting lever.

Overload protection: The motor is automatically switched off when the machine is overloaded. Release the starting lever and reset the machine after a cooling down period of approx. 1 minute.



WARNING

The cylinder continues to run for a brief period after the machine has been switched off. Do not tilt or carry the machine while the motor is still running and do not touch the cylinder while it is still rotating. Danger of injury!

OPERATION

Changing the Cylinder (See Fig. 7)

The machine has two easily exchangeable cylinders: a rake cylinder made of hard plastic with vertically rotating sprung tines, and a scarifier cylinder with vertically mounted high-grade steel knives.

WARNING

Switch off the machine, disconnect the mains plug and wait until the cylinder is standing still. Wear gloves when handling the cylinder.

- Turn the machine over.
- Release the mounting bolt (④) and fold the bearing cover (⑤) away (Fig. 7).
- Tilt the cylinder upwards and pull the shaft out of its seat.
- Insert the new cylinder by reversing the sequence. Ensure that the flattened side of the bearing shell is first inserted in the bearing (Fig. 7).

Working with the Machine

To maintain a well cared-for lawn, it can be raked as needed in the spring and autumn. For lawns with a heavy infestation of moss, scarifying with the blade cylinder is a more intensive treatment than raking, and should only be carried out once a year; this can be done in early autumn or mid to late spring, when the grass is still actively growing and the weather is milder. Scarifying provides a good base from which to renovate and reseed the lawn. If scarifying is done in spring, wait until the lawn has been mowed for 3 to 4 consecutive weeks to allow the grass height to be brought down gradually.

WARNING

When working on slopes always proceed across the slope. Be particularly careful when walking backwards and pulling the machine. Danger of stumbling!

NOTE: The shorter the grass, the better the lawn can be treated. Furthermore, the load on the machine is less and the service life of the cylinder is prolonged.

- The machine can be operated with or without the collection bag.
Recommendation: As the collection bag can fill up very quickly, it may be more efficient to work without the collection bag attached. The removed thatch and moss will be left on the lawn and can be gathered up afterwards with a leaf rake, blower or lawnmower.
 - To ensure that the safety guard flap closes properly, remove any earth that may have collected on the safety guard springs and/or the housing. When working without the bag, check that the safety guard flap is tightly closed.
-

OPERATION

- Mow the lawn to between 20 – 30mm.
- Do not use the scarifier in long grass. It may wind around the scarifier blade and result in damage to the equipment.
- Select the appropriate working or readjustment position (in the event of cylinder wear) so that the machine is not overloaded.
- Commence work in the vicinity of the power socket and proceed away from the socket.
- Always ensure that the extension cable is behind you, and, after turning, move it to the side that has already been treated.
- Guide the machine at a walking pace down lanes that are as straight as possible. To ensure uninterrupted aerating or scarifying, the individual lanes should always overlap by a few centimetres. Dwelling too long at the same place while the machine is running can damage the lawn.
- To ensure that the cable is not an impediment, turn the machine in such a manner that the cable strain release on the bar always faces the side that has been treated.
- After work and to transport the machine, disconnect the power plug and wait until the cylinder is standing still.
- Adjust the transport position 0 setting (see Setting the Working Position) when transporting the machine.
- Lift the machine to transport it over steps and sensitive surfaces (e.g. tiles).
- Always clean the machine after each use (see Maintenance).
- After having treated lawns with dense moss growth, it is advisable to reseed the lawn so that it can regenerate itself more quickly.



WARNING

This tool may cause Hand-Arm Vibration Syndrome (HAVS) if its use is not adequately monitored and managed.

Preventative measures include, among others, regular maintenance and care of the product and cutting attachments, keeping hands warm and periodical breaks, as well as proper planning of work processes.

MAINTENANCE



WARNING

If a part becomes worn or damaged, use recommended manufacturers replacement parts. Use of any other parts may create a hazard or cause product damage.



WARNING

Always switch the product off, disconnect the plug from the power socket and wait until the cylinder is standing still before performing inspection, maintenance and cleaning work!



WARNING

Wear gloves when handling the cylinder.



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.

General Maintenance



WARNING

Do not jet water onto the machine and do not clean it under flowing water. This would result in the danger of an electric shock and the machine could be damaged.

- When work has finished, remove plant residues adhering to the wheels, inside the ventilation opening, the grass ejector opening and the cylinder. Do not use hard or pointed objects for this purpose as they could damage the machine.
 - To ensure that the safety guard flap closes properly, remove any earth that may have collected on the safety guard springs and/or the housing.
 - Completely empty the collection bag.
 - Always keep the machine clean. Do not use cleaning agents or solvents.
We cannot be held liable for damage caused by our machines if they were improperly repaired, if non-original parts have been used or if they were used not in keeping with their intended purpose.
-

MAINTENANCE

Storing the Machine (See Fig. 8)

The device features the following storage options to save space:

- Before storing your machine, disconnect the plug from the power socket. Remove the collection bag.
- Loosen the wing knobs on both sides of the handle bars.
- Fold the upper and centre handles. Making sure that the cables do not become trapped (Fig. 8).
- Store the machine indoors in a cool, dry location and out of reach of children.
- Allow the motor to cool before storing the equipment in a confined space.
- Do not cover the equipment as moisture could build up.

TROUBLESHOOTING



WARNING

Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by a qualified specialist.

Gloves and appropriate protective clothing must be worn when performing these instructions.

Always turn off the machine and disconnect the plug and wait until the cylinder is standing still before making any adjustment.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Abnormal noises, clatter or vibrations.	Foreign body on the cylinder.	Remove the foreign body.
	Damaged sprung tines or cylinder knives.	Exchange the cylinder.
	Cylinder incorrectly mounted.	Install the cylinder correctly. Refer to Changing the Cylinder on page 21.
	Toothed-belt slip.	Contact the aftersales helpline.
Machine does not start.	No power.	Check power socket, cable, line; repair only by qualified electrician.
	On/Off switch defective.	Contact the aftersales helpline.
	Carbon brushes worn out.	
	Motor defective.	
Motor fails.	Blocked by foreign body.	Remove the foreign body.
	Grass is too long.	Mow beforehand.
	Clogged discharge.	Clean discharge.
	Overload protection tripped.	Allow the machine to cool down for about 1 minute.
Work result not satisfactory.	Sprung tines of rake cylinder worn out.	Exchange the cylinder.
	Blades of scarifier cylinder blunt or damaged.	Exchange the cylinder.
	Toothed belt defective.	Contact the aftersales helpline.
	Transport position or incorrect working position selected.	Select Working Position 1 or Readjust Position 2-3. Refer to Setting the Working Positions on page 20.
	Grass is too long.	Mow beforehand.

TECHNICAL DATA

1350W 2-in-1 Scarifier and Raker GV1333B Combo

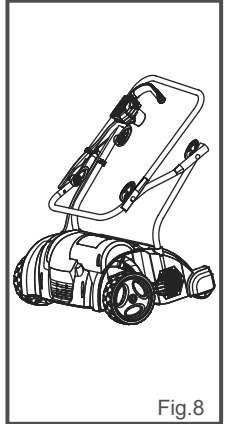
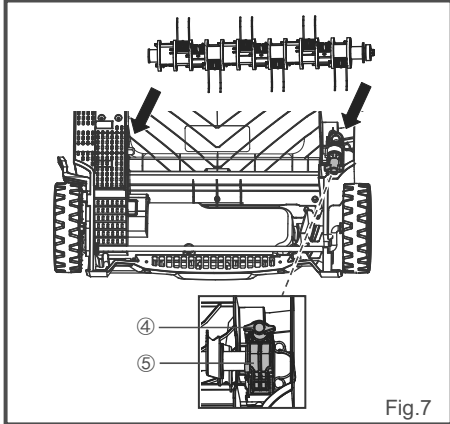
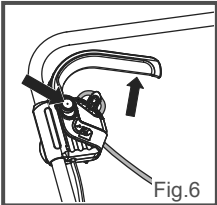
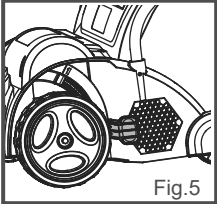
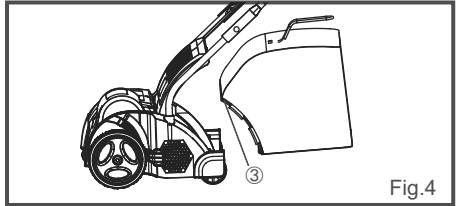
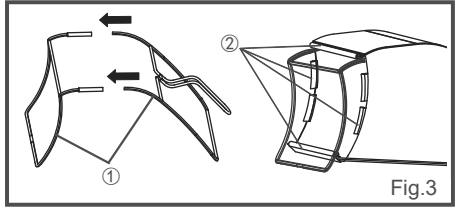
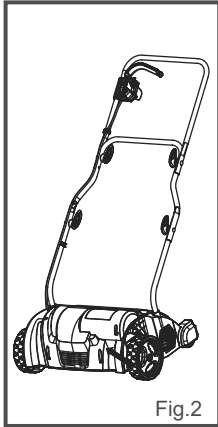
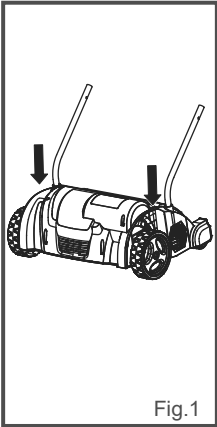
Motor input	1350W
Rated voltage	230-240V~, 50Hz
Protection class	□ / II
Degree of protection	IPX4
Working width	Spring tine drum: Max. 33cm Scarifier drum: Max. 33cm
Working depth	Max. 10mm
Collection bag volume	40L
Weight	14.7kg
Sound pressure level (L_{PA})	83dB(A) K=3dB(A)
Guaranteed sound power level (L_{WA})	99dB(A)
Measured sound power level (L_{WA})	94.9dB(A) K=2.6dB(A)
Vibration at the handle (a_h)	4.6m/s ² K=1.5m/s ²

The noise and vibration values were established by the standards and stipulations listed in the Conformity Declaration. Technical and visual changes can be completed in the course of further development without notification. Consequently, all dimensions, references and details in these Operating Instructions are without guarantee. Consequently legal claims based on these Operating Instructions cannot be asserted.

RECYCLING AND DISPOSAL



This marking indicates that this product should not be disposed with other household wastes. The machine must be delivered in rigid packaging to avoid damage during transportation. The packaging and the machine itself are manufactured from recyclable materials and should be disposed of accordingly.



GV1333B Combo
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Made in P.R.C