



# INSTRUCTION MANUAL

## **1300W 2in1 ELECTRIC SCARIFIER & RAKE**

Model No: THSR -- Product No: 1938140001

ASSEMBLY REQUIRED  
SAVE THESE INSTRUCTIONS  
SPARES & SUPPORT: 01793 333212

Please read & understand this manual, paying particular attention to the safety instructions, before use.

The manufacturer reserves the right to change the product specification and livery according to continued product improvements.



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If you require any assistance with regards to the contents or operation of your machine, please  
contact us:

**Tel: 01793 333212 - Mon to Friday 8.00am to 5.30pm  
(excl. Bank Holidays)**

**Email: [customerservice@handydistribution.co.uk](mailto:customerservice@handydistribution.co.uk)**

## SPECIFICATION

The manufacturer reserves the right to change the product specification and livery according to continued product improvements.

Model	THSR
Product No.	1938140001
Motor Rated Power	230-240V~50Hz
Protection	IPX4
No-load Speed	2990/min
Max. Working Width	320mm
Height Range	5 adjustments (-10/-5/0/5/10mm)
Grass Collector Capacity	30L
Electric Cable Length	10m
Weight	N.W 12.25kg
Guaranteed sound power level	104 dB(A)
Vibration	<b>With grass catcher:</b> Left handle: 3.348m/s <sup>2</sup> - Right handle: 2.078m/s <sup>2</sup> <b>Without grass catcher:</b> Left handle: 3.420m/s <sup>2</sup> - Right handle: 3.591m/s <sup>2</sup> K=1.5m/s <sup>2</sup>

## IMPORTANT INFORMATION



### WARNING

Read this instruction manual carefully before operating this machine. Make sure that you are familiar with the controls and properly operate the machine. Following these instructions can reduce the risk of fire, electric shock and personal injury.

### IF NOT USED PROPERLY THIS MACHINE CAN BE DANGEROUS!

This machine can cause serious injury to the operator and others, the warning and safety instructions must be followed to ensure reasonable safety and efficiency in using this product. The operator is responsible for following the warning and safety instructions in this manual and on the machine. Never use the product unless the grass box or guards are correctly positioned.

### DESIGNED FOR DOMESTIC USE ONLY.

The Scarifier & Rake is designed for use in private gardens, whose annual use does not generally exceed 50 hours and that are primarily used for tending GRASS OR LAWN AREAS, but not in public facilities, parks or sports grounds and not for agricultural or forestry use.

Compliance with this manual supplied by the manufacturer is a prerequisite for the proper usage of the machine. The operating manual contains servicing and maintenance instructions as well as directions for use.

### TRAINING

















Read the instructions carefully: Be familiar with the controls and the proper use of the equipment. Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the age of the operator.

Never operate while people, especially children, or pets are nearby.

Keep in mind that the operator or user is responsible for accidents or hazards involving the machine that occur to other people or their property.

# GENERAL SAFETY INSTRUCTIONS

It is important that you read and understand the owner's manual and labels affixed to the machine. Learn its application and limitations as well as the specific potential hazards. Retain these instructions for future reference. The operator is responsible for following the warnings & instructions in this manual and on the product.

	Read & understand operator's manual before using the machine. Failure to follow instructions could result in death or serious injury.		<b>DANGER</b> Beware of sharp blades, which will continue to rotate after the motor is switched off. The blades will continue to rotate, even after the plug has been removed from the power supply.
	Wear gloves to protect your hands Wear foot protection		Check your machine before turning it on. Keep guards in place and in working order. Frequently check to see that foreign objects are removed from the tool area before turning it on. Replace damaged, missing or failed parts before using it.
	Whenever the machine is in use, safety glasses must be worn to safeguard against flying objects. Hearing protection must also be used to protect the operators hearing. Face masks are also recommended to avoid inhalation of debris.		Beware of sharp tines. Tines continue to rotate after the motor is switched Off. Remove plug from power supply before maintenance or if the power cord is damaged.
	Double Insulated – IPX4		Do not expose to rain or damp conditions
	Remove all objects that could be thrown by the blade in the working area.		Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general, children must not come near the area where the product is
	Keep the supply flexible cord away from the cutting blades		Be careful when using on slopes. Do not operate on inclines greater than 15°. It is advised to cut across the incline.
	Safety alert symbol. Used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury.		Indicates an imminently hazardous situation which, if not avoided, will result in serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in serious injury.		Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
<b>CAUTION</b>	Used without the safety alert symbol, indicates a potentially hazardous situation which, if not avoided, may result in property damage.		

**STAY ALERT**

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly. Do not use this machine when you are tired or distracted from the job at hand. Be aware of what you are doing at all times. Use common sense.

**AVOID DANGEROUS CONDITIONS**

Make sure there is adequate surrounding workspace. Cluttered areas invite injuries. Keep your work area clean with sufficient light. Keep the area around the machine clear of obstructions, grease, oil, rubbish and other debris which could cause persons to fall onto moving parts.

**INSPECT YOUR MACHINE**

Check all bolts, nuts, and screws for tightness before each use, especially those securing guards and drive mechanisms. Vibration during use, may cause these to loosen.

Form a habit of checking to see that all other tools/equipment are removed from the working area before turning it on.

Replace damaged, missing or failed parts before using it. Warning labels carry important information. Replace any missing or damaged warning labels.

**DRESS PROPERLY**

Do not wear loose clothing, gloves, scarfs, neckties or jewellery (rings, wrist watches), which can be caught in moving parts. Protective electrically non-conductive gloves and non-skid heavy duty footwear are highly recommended when working. Wear a face or dust mask if the operation is dusty. Always wear safety glasses/goggles and/or face shields. Everyday eyeglasses have only impact resistant lenses; they are not safety glasses/goggles. Wear protective hair covering to contain long hair, preventing it from getting caught in machinery.

**AVOID ELECTRICAL SHOCK**

Check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor. Check that there is a ground connection, and a regulation differential switch further up the circuit. Ground the machine. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. Never open the pushbutton box on the motor. Should this be necessary, contact a qualified electrician. Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the machine.

**KEEP BYSTANDERS AND CHILDREN AWAY**

Keep unauthorised persons a minimum distance of 10 metres away from the machine. If approached, stop the machine immediately. Do not allow children to handle, climb on or in the machine.

**DO NOT OVERREACH**

Keep proper footing and balance at all times when using the machine. Never stand on the machine. Serious injury could occur if the machine is tipped or if the moving parts are unintentionally contacted. Do not store anything above or near the machine, where anyone might stand on the machine to reach them.

**AVOID INJURY FROM UNEXPECTED ACCIDENT**

Keep hands & feet out of the way of all moving parts. Do not place any part of your body or any tool e.g. in the machine during operation.

**DO NOT FORCE TOOL**

Always work within the rated capacity. Do not use the machine for a purpose for which it was not intended.

**NEVER LEAVE MACHINE RUNNING UNATTENDED**

Do not leave the machine unattended until it has come to a complete stop.

**MAINTAIN YOUR MACHINE WITH CARE**

Clean the machine immediately after use. Keep the machine clean to ensure it operates to its full & safest performance. When maintaining this machine, only the manufacturer's original replacement parts should be used. The use of non-original manufacturer parts may invalidate your warranty.

## PROTECT THE ENVIRONMENT

Take left over materials to an authorised collection point or follow the stipulations in the country where the machine is used. Do not discharge into drains, soil or water.

## STORE IDLE EQUIPMENT

When not in use, the machine should be stored in a dry location. Keep the machine away from children and others not qualified to use it.

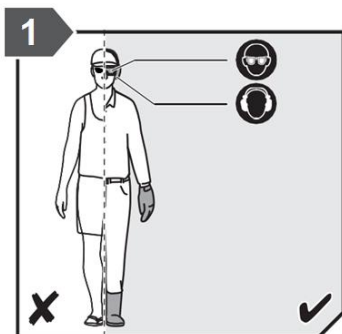


This symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

For more detailed information about recycling of this product, please contact your local council office, your household waste disposal service or shop where you purchased the product.

## PREPARATION

- Always wear appropriate footwear, such as work boots, and trousers when operating the machine. Do not operate the equipment when barefoot or wearing open sandals. Always wear safety goggles or safety glasses with side shields when operating the product.



- Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- Only use accessories approved by the manufacturer.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate the machine in wet grass. This could cause you to slip while using.

## ELECTRICAL SAFETY

- Power plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid unintentional starting. Always check that the switch is in Off position before plugging in the product to the power supply. Do not carry a plugged in product with your finger on the switch.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose the product to rain or wet conditions.
- Water entering an appliance will increase the risk of electric shock.

- Electrical power should be supplied via a residual current device (RCD) with a tripping current of not more than 30 mA.
- 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 product if the cord is damaged or worn.
- If you need to use an extension cable, ensure it is suitable for outdoor use and has a current capacity rating, sufficient to supply your product. Check it before every use for damage, always uncoil it completely, during use because coiled cables can overheat. Damaged extension cables should not be repaired; they should be replaced with an equivalent type.
- Make sure the power cable is positioned so that it cannot be damaged by the cutting means and will not be stepped on, tripped over or otherwise subjected to damage or stress.
- Never pick up or carry the product by the electric cable.
- Never pull by the power cord to disconnect from the power supply.
- Keep the power cord away from heat, oil and sharp edges.
- Make sure voltage is correct for your product. A nameplate on the product indicates the product's voltage. Never connect the product to an AC voltage that differs from this voltage.
- Always ensure the cord from the handlebar to the mower body is never trapped, pinched or otherwise damaged during assembly or handle folding. Never apply power to the mower if this cable is damaged. Return to authorised service centre for professional repair.

#### **OPERATION**

- Only operate the mower in daylight or in good artificial light.
- Avoid operating the equipment in wet grass.
- Always be sure of your footing on slopes. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes, which exceed 15°. For wheeled rotary machines, mow across the face of slopes, never up and down.
- Never run while using the mower, always walk.
- Do not pull the machine backwards unless absolutely necessary. Use extreme caution when reversing or pulling the product towards you.
- Stop the blade(s) if the machine must be tilted for transportation when crossing surfaces other than grass (such as gravel drives, walks, or roads) & when transporting the product to & from the area to be machined. Never pick up or carry a scarifier/rake while the electric motor is running.
- Never operate the product with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

#### **Stop the motor and disconnect the electrical plug from the power source:**

- ✓ before clearing blockages or unclogging the chute;
- ✓ before checking, cleaning or working on the machine;
- ✓ after striking a foreign object inspect the product for damage and make repairs before restarting and operating,
- ✓ if scarifier/rake starts to vibrate abnormally (check immediately).
- Shut the motor off and wait until the motor and the blade come to a complete stop before removing the grass catcher.
- Watch for holes, ruts, or bumps. Tall grass can hide obstacles.
- Do not mow near drop-offs, ditches or embankments. The operator could lose footing or balance.
- Be alert and turn the machine off if children enter the area.
- Never tamper with safety devices. Check their proper operation regularly.
- Never attempt to make wheel height adjustments while the motor is running.



### **GENERAL MOWING TIPS**

- When cutting long grass, reduce walking speed to allow for more effective cutting and a proper discharge of the clippings. It is recommended that you cut longer grass in stages. Start at a higher cutting height and go over the same area a second time with a lower cutting height.
- Do not cut wet grass; it will stick to the underside of the deck and prevent proper collection or discharge of grass clippings.
- New or thick grass may require a higher cutting height.
- Empty the grass box regularly, the discharge chute will become blocked with grass cuttings.
- The mower is designed to operate and cut most effectively when moving forwards.

### **OVERLOAD PROTECTION**

- The product has an overload protection device. When overloading is detected, the product will automatically switch off. If the overload protector is actuated, the motor must be allowed to cool down for 5 to 10 minutes.
- Turn off the power and remove the plug from the supply. The blades are sharp, wear heavy duty gloves before touching. Make sure the blade can rotate freely and is not jammed or tight.
- When the motor is cool, connect the plug to the power supply, turn the power on. Press the Safety Button & then the Trigger to start the product. If the product will still not start, return it to an authorised service centre for repair.

### **MAINTENANCE AND STORAGE**

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Replace worn or damaged parts for safety.
- Keep the machine free of grass, leaves, or other debris build-up.
- Allow the machine to cool before storing.
- Grass catcher components are subject to wear, damage, & deterioration, which could expose moving parts or allow objects to be thrown. Frequently check & replace them with the manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can be dangerous. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.

## **INTENDED USE**

- This scarifier & rake is designated with a rated input of 1300 Watts. Depending on the fitted cutting device, this product is intended for either scarifying and removing thatch from lawns or for raking in domestic and hobby gardens.
- This product is not to be used in wet weather conditions and may not be used on overly dry, wet or unusually high grass, e. g. pasture grass or for shredding leaves.
- This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

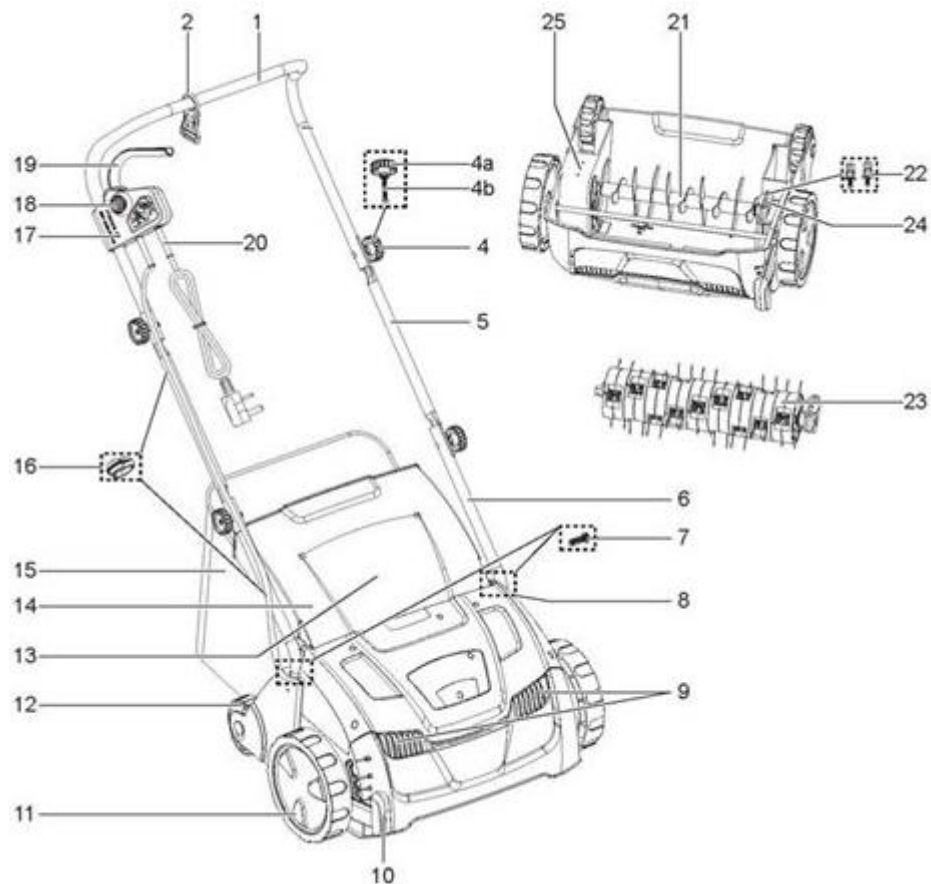
### **GENERAL SCARIFYING TIPS**

- When used as a scarifier, this product works by scratching through & between the grass with specially adapted prongs to collect & remove any unwanted thatch from the lawn, whilst leaving the grass intact. At the same time the product scarifies the ground resulting in a better airing.
- Consider the weather when scarifying. Scarify the lawn with an increased depth setting during spring time between April & May as the lawn is better able to recover during this season. During a wet summer, scarify again in late summer with a decreased depth setting. Do not scarify during periods of hot weather. During a dry rainless summer, do not scarify a second time in autumn.

### **GENERAL RAKING TIPS**

- When used as a rake, the fine needles will scratch the surface of the lawn while simultaneously picking light debris for better oxygen absorption, airing and draining.
- In order that a healthy lawn can develop in the spring, it is necessary for greater amounts of air to penetrate the area around the roots of the grass. We recommend that you aerate the lawn every 4 - 6 weeks depending on the state of your lawn.

# KNOW YOUR MACHINE



<b>1</b>	Top Handle	<b>2</b>	Electric Cold Restraint	<b>4</b>	Handle Knob Set (x4)
<b>5</b>	Middle Handle	<b>6</b>	Bottom Handle	<b>7</b>	Handle Fixing Screw
<b>8</b>	Support	<b>9</b>	Air Vents	<b>10</b>	Depth/Height Adjuster
<b>11</b>	Wheel	<b>12</b>	Rear Castor	<b>13</b>	Discharge Opening
<b>14</b>	Collector Flap	<b>15</b>	Grass Collector	<b>16</b>	Cable Clip (x2)
<b>17</b>	Switch Box	<b>18</b>	Safety Lock Button	<b>19</b>	Trigger Lever
<b>20</b>	Electric Power Cable & BS Plug	<b>21</b>	Scarifier Cylinder	<b>22</b>	Mount Set (x2)
<b>23</b>	Rake Cylinder	<b>24</b>	Bearing	<b>25</b>	Driveshaft

# SET UP & PREPARATION FOR OPERATION

Follow the operating instructions step-by-step and use the pictures provided as a visual guide to easily assemble the machine.

Please ensure that you have all the below necessary parts, before commencing with the assembly. In the unlikely event that you are missing a component, please do contact us on 01793 333212, option 2 or email [customerservice@handydistribution.co.uk](mailto:customerservice@handydistribution.co.uk) for assistance.

## HANDLE BAR ASSEMBLY

a). Align the lower handle bars (6) with the supports (8). Make sure the holes in the lower handle bars correspond with those in the supports (8) and secure the bars with one screw (7), each to the support (8).

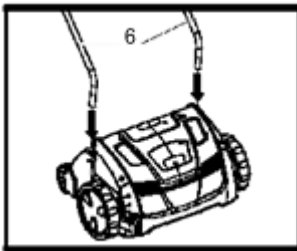
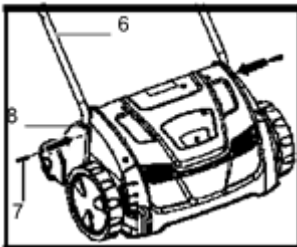
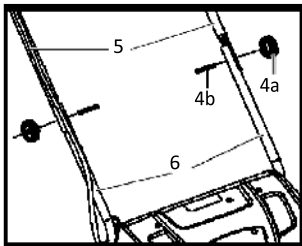


Fig. 1a



Align the middle handle bars (5) to the lower ones (6). Make sure the holes in the handle bars (5, 6) correspond and secure them with one mounting set (4) on each side.



Slide the cord strain relief (2) onto the upper handle bar (3).

Align the upper handle bar (3) with the middle handle bar (5) and secure them with one mounting set (4) on each side.

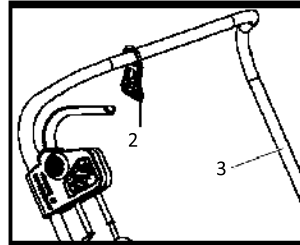
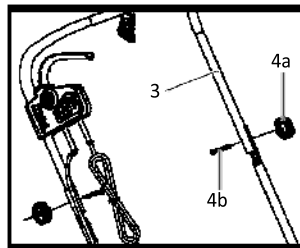
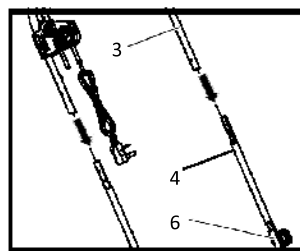
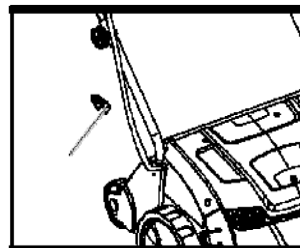


Fig. 3



Fix the cord with the cord clips (16) to the handle bar.



## GRASS COLLECTOR ASSEMBLY



### WARNING!

Do not attempt to use the product without the grass catcher attached as objects may be thrown.



### WARNING!

The product must be switched off and the cutting device must have stopped rotating before you attach or empty the grass catcher!



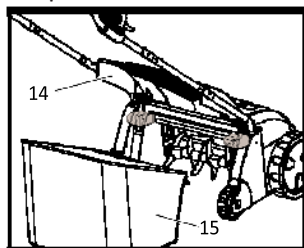
Never use the scarifier without the grass catcher bag securely fitted.

**NOTE:** A full grass catcher will reduce the performance of this product. The grass catcher should be emptied when it is half full. Always attach the grass catcher (15) to the product before operation.

Open the deflector guard (14), hold it in position and align the hooks on the grass catcher (15) with the hinges on the back of machine.

Empty the grass catcher (15) frequently during use. Do not wait until it is completely full. We recommend emptying it when it is half full.

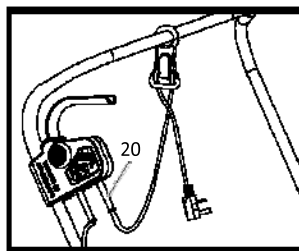
Lift the deflector guard (14) and pull the grass catcher (15) off the hinges to remove it. Empty the collected material onto a compost heap and reattach it onto the product.



## CABLE ROUTING

Always route the electric mains cable away from the work area to prevent it from coming into contact with the cutting device. Plan your route before starting work. Start your work at the nearest point to the electrical outlet, and work away from it. This will keep the cable away from the cutting device and avoid it being accidentally cut. Keep the cable over your shoulder for added safety.

For cord strain relief of the cable, form a loop at the end of the main cable and bring this through the opening in the handle and insert it into the cord strain relief.



## CUTTING DEPTH ADJUSTMENT



### WARNING!

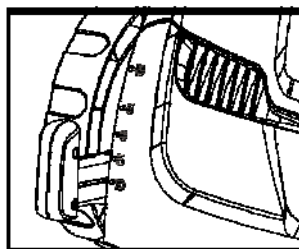
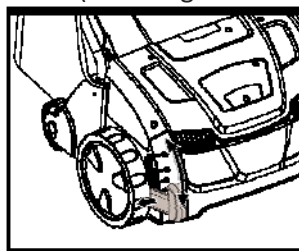
Always switch the product off and remove the mains plug from the power supply before making any adjustments.

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.

Please note when working on an unkempt lawn with thick thatch you should rake or scarify the lawn at a higher setting before going over it again at a lower setting, so as not to put too much strain on the motor.

Push the depth adjustment lever (10) towards the wheel (11), then move it forward or backward to adjust the cutting depth. (See Fig. 8a).

Adjust the lever (10) to one out of the five stages. Read the adjusted depth from the scale. (See image and the table below).



## SCARIFYING

Scale	Setting	Depth	Description
1	Transport	+10mm	for transportation and storage
2	Minimal	+5mm	scarifying a young or sensitive lawn, removing thin thatch layers, also use this setting when scarifying a second time in the Autumn
3	Middle	0mm	scarifying healthy lawn, removing thatch
4	Deep	-5mm	scarifying healthy lawn, removing thicker thatch
5	Maximum	-10mm	maximum/deepest scarifying setting, removing thick thatch layers

## RAKING

Scale	Setting	Depth	Description
1	Transport	+10 mm	for transportation and storage
2	Minimal	+10 mm	raking a young or sensitive lawn, removing thin thatch layers
3	Middle	+5 mm	raking healthy lawn
4	Deep	0 mm	maximum/deepest raking setting
5	Maximum	-5 mm	do not use for raking

## POWER CONNECTION



### WARNING!

**Before operating the scarifier, ensure that the fastening elements are undamaged. To reduce the risk of injuries, always switch off the motor and pull out the mains plug before working on the machine.**

The product can be connected to any socket (with 230-240V alternating current). We recommend to always use the appliance via a Residual Current Device (RCD) with a tripping current of max. 30mA.

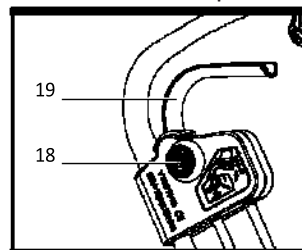
1. Mains leads on scarifiers are particularly susceptible to insulation damage. The causes of this include the following:
  - ❖ The cable may be cut if the scarifier passes over it.
  - ❖ Damage through crushing, if the mains lead becomes stuck under doors or windows.

- ❖ Cracks caused by ageing of the insulation sheath.
  - ❖ Kinks caused by incorrect fastening of the mains lead.
2. Such damaged mains lead should not be used under any circumstances as they may cause fatal injuries due to a damaged insulation sheath.
  3. Always check the plug and cable and make sure they are in good condition before operation.

## STARTING

The product is fitted with a lock-off button feature. To start the product, simply press the lock-off button (18) then fully press and hold the start/stop level (19). The lock-off button can now be released. (See Fig.9)

**NOTE:** It is not necessary to maintain pressure on the lock-off button once the start/stop level is squeezed and the motor is running. The lock-off button is a safety device to avoid accidental start-up of the device.



## STOPPING

The product will automatically stop once the start/stop lever is released. The lock-off button must be pressed and the start/stop lever squeezed to restart the motor.

## OVERLOAD PROTECTION

The overload protection will be activated in the following circumstances:

1. A buildup of scarified material around the cutting device.
2. If the material scarified is too large and causes the motor to work beyond its capacity.
3. Where there is too much resistance against the cutting device.

When the circuit breaker has been activated switch off the product and disconnect from the power supply. Let the product cool down and eliminate the cause of the overload before using the product again.

## GENERAL OPERATION



### WARNING!

In some countries regulations define at what time of the day and on what day's machines can be used and what restrictions apply!



### WARNING!

If the product strikes a foreign object stop the motor! Switch the product off, disconnect it from the power supply and let it cool down. Inspect the product thoroughly for damage! Have any damage repaired before restarting!



### WARNING!

If the machine vibrates unusually during operation it may indicate that it is damaged! The product should be inspected and repaired immediately!

- Check the product, 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.
- Double check that accessories are properly connected.
- Push the product 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 product.
- Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before releasing the handles.
- Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
- Mow the lawn before working and fertilise afterwards.
- Make sure that the lawn is clear of stones, sticks, wire or other objects that could damage the product or its motor.

- Select the suitable working depth for the actual grass height.
- Do not work with this product on a wet lawn because the grass may stick to the underside of the product, preventing the proper discharge of collected material, and could also cause you to slip and fall.
- Slowly push the product forward. Move the product at an appropriate speed. Do not move it too fast or the discharge opening may get blocked and the engine may overload.
- 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. (See Fig. 10).
- 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.

## MAINTENANCE & STORAGE



### WARNING!

Before carrying out any repairs or servicing work, you must ensure that the product has been disconnected from the power supply. Repairs and maintenance work other than those described within this instruction manual may be performed only by an authorised service agent.

### SERVICE & STORAGE

To ensure long and reliable service, carry out the following maintenance regularly. Servicing and cleaning work on the product 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.

- Regularly check for obvious defects such as loose, dislodged or damaged chain and guide bar, loose fixings and worn or damaged components.



- Check that covers and guards are undamaged and correctly fitted. Carry out necessary maintenance or repairs before using the product.
- If the cutting device should happen to fail despite the care taken in manufacturing and testing, repair should be carried out by an authorised specialist.
- Do not clean the product while it is running.
- Ensure that all the fastening elements (screws, nuts, etc.) are tight at all times, so that you can safely work with the product.
- Check the product frequently for signs of wear. Replace worn or damaged parts.
- Store your product in a dry place. To ensure a long service life all screw parts should be cleaned and then oiled.
- Clean the product 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 cutting device. You should therefore check the condition of the cutting device and its mounting at regular intervals.
- ❖ If the cutting device is worn or blunt it must be replaced immediately.
- ❖ If the product starts to vibrate excessively, this means that the cutting device has not been balanced correctly or has suffered deformation due to impacts. In this case, it must be repaired or replaced.

## REPLACING OR CHANGING THE CYLINDER



### **WARNING!**

**Always switch the product off, disconnect it from power supply and let it cool down before changing/replacing the cutting device!**



### **WARNING!**

**Always use the correct cutting device according to the intended use! Observe the technical requirements of this product (see the Technical specifications section) when purchasing and using cutting devices!**



**Cutting devices are very sharp and become hot during use! Handle them carefully! Wear safety gloves when handling cutting devices to avoid injuries like burns and cuts!**

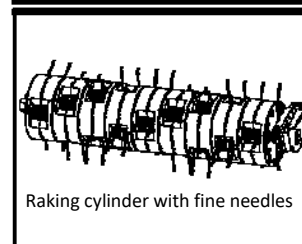
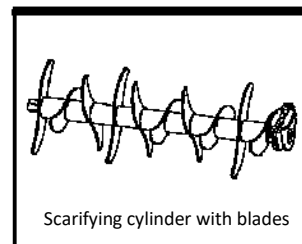


### **WARNING!**

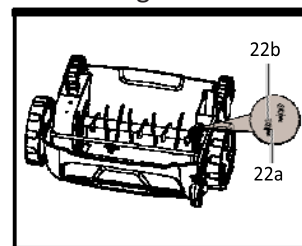
**Make sure the two bolts are completely tight before using the product, don't use the product if any of the bolts are missing or loose.**

**If a bolt thread is damaged, it must be replaced before the machine can be used safely. You can replace it with one of a suitable size.**

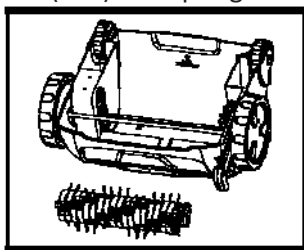
The product has two functions, scarifying or raking. The scarifying cylinder is preassembled on the product. The raking cylinder is included in the supply box. The cylinder can be changed according to the different applications.



1. Remove the grass catcher
2. Place the product upside down on a flat stable ground to access the underbody.



3. Loosen the two bolts (22a) with a suitable wrench, remove them together with the spring washers (22b) and the attached cutting device (21 or 23).
4. To remove the cutting device, first lift the bearing and then pull it off the drive shaft (25).
5. Align and insert the respective cutting device: Slide the hex nut into the socket of the driving shaft (25) and fix the bearing to the support with the bolts (22a) and spring washers (22b).



### AFTER USE

Switch the product off, disconnect it from the power supply and let it cool down.

Check, clean and store the product as described below.

### GRASS COLLECTOR

Inspect the grass catcher (15) before each use. Do not use it if you find any damage. Clean the grass catcher (15) after operation. Let the grass catcher dry thoroughly before storing to avoid mildew.

### TRANSPORTATION

Switch the product off and disconnect it from the power supply before transporting it anywhere.

Attach transportation guards, if applicable. Adjust the cutting depth to the transportation setting (refer to "CUTTING DEPTH ADJUSTMENT").

Always transport the product using its 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.

### UK PLUG REPLACEMENT

The fuse in the main plug of your garden power tool should always be replaced with one of identical rating.

Check the voltage given on your garden power tool matches the supply voltage. The garden power tool is supplied with a fitted plug, however if you should need to fit a new plug, follow the instructions below.

#### IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:

**Blue – Neutral**

**Brown – Live.**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **blue** must be connected to the terminal which is marked with **N**.

The wire which is coloured **brown**, must be connected to the terminal, which is marked with the letter **L**.

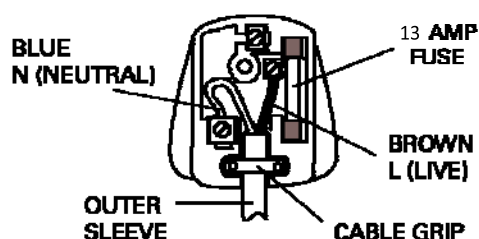


**WARNING!**

**Never connect live or neutral wires to the earth terminal of the plug.**

A 13 AMP (BS1363/A) plug must be used and a 13 AMP fuse must be fitted.

**NOTE:** If a moulded plug is fitted and must be removed, take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket. If the supply cord is damaged it must be replaced by a service agent or certificated electrician, to ensure the machine can be used safely.





# TROUBLESHOOTING



## WARNING!

Only perform the steps described in these instructions! All further inspection, maintenance and repair work must be performed by an authorised service specialist! Contact your local authorised service dealer if the problem cannot be solved by yourself!

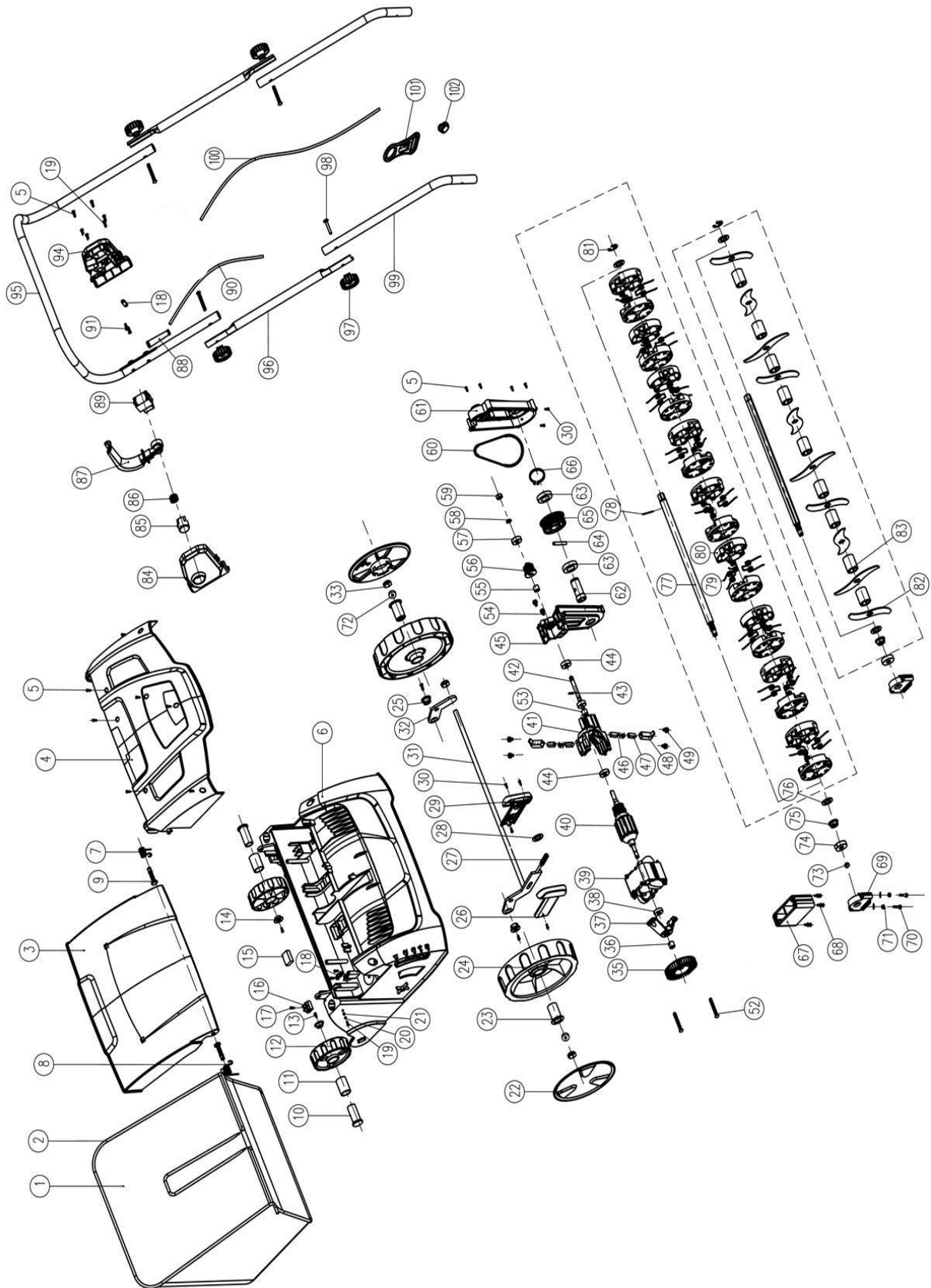


## WARNING!

If the product does not perform properly, makes unusual sounds, the motor does not start or stop as described, the cutting device does not work properly, or any other irregularity or malfunction occurs, do not attempt to repair the product by yourself. Please contact customer services or your local authorised service dealer.

Problem	Possible cause	Fault correction
Product does not start	Not connected to power supply	Connect to power supply
	Power cord or plug is defective	Check by a specialist electrician.
	Other electrical defect to the product	Check by a specialist electrician.
	Lock-off button not pressed	Press lock-off button first, then the start/stop lever
Product does not reach full power	Power source's (e.g. generator) voltage is too low	Connect to another power source
	Air vents are blocked	Clean the air vents
Poor results	Cutting device is dull/damaged	Replace with a new one
	Scarified material exceeds capacity	Only scarify materials according to the capacity of the product
	Scarifying depth is incorrect	Adjust depth

# PARTS DIAGRAM



PARTS LIST

No	Part No	Description	Qty	No	Part No	Description	Qty	No	Part No	Description	Qty
1	TH195-1	Collection Bag	1	35	TH195-29-2	Fan	1	70	TH195-33	Bolt	2
2	TH195-2	Collection Bag Frame	1	36	TH195-29-3	Fan Shaft Sleeve	1	71	TH230-71	Washer	2
3	TH230-3	Grass Flap	1	37	TH230-37	Back Support	1	72	TH230-72	Washer	4
4	TH230-4	Motor Cover	1	38	TH195-29-5	Bearing	1	73	TH195-36	Shaft retainer	2
5	TH230-5	Self-Tapping Screw 4*16	23	39	TH195-29-6	Capasitor	1	74	TH195-37	Bearing	2
6	TH230-6	Body	1	40	TH195-29-7	Rotor	1	75	TH195-38	Flange Nut	2
7	TH195-6	Right Spring	1	41	TH195-29-8	Front Support	1	76	TH195-39	Washer	4
8	TH195-7	Left Spring	1	42	TH195-29-9	Gear Shaft	1	77	TH195-41	Rake Shaft Pin	2
9	TH195-8	Plastic Pin	2	43	TH195-29-10	Small Pulley Pin	1	78	TH195-40	Axle	1
10	TH195-9	Rear Wheel Plug	2	44	TH195-29-11	Bearing	2	79	TH195-42	Rake Spring	27
11	TH195-10	Rear Wheel Axle Sleeve	2	45	TH195-29-12	Transmission Support	1	80	TH195-43	Rake Support	18
12	TH230-12	Back Wheel	2	46	TH195-29-13	Brush	2	81	TH195-44	Split washer	2
13	TH230-13	Self-Tapping Screw 5*16	2	47	TH195-29-14	Copper Brush Holder	2	82	TH195-45	Blade	10
14	TH195-12	Rear Axle Cap	2	48	TH195-29-15	Brush Holder	2	83	TH195-46	Cover	9
15	TH195-13	Circuit Board	1	49	TH230-49	Self-Tapping Screw 4*12	4	84	TH230-84	Switch Outer Casing	1
16	TH195-14	Terminal Strip	2	52	TH230-52	Screw	2	85	TH230-85	Switch Button	1
17	TH230-17	Self-Tapping Screw 3*18	1	53	TH195-29-20	Multi-Roll Bearing	1	86	TH230-86	Switch Button Spring	1
18	TH195-16	Cable Clamp	3	54	TH230-54	Self-Tapping Screw 4*14	3	87	TH230-87	Trigger	1
19	TH230-19	Self-Tapping Screw 4*16	2	55	TH195-29-22	Shaft Sleeve	1	88	TH230-88	Cable Sheath	2
20	TH230-20	Washer	2	56	TH230-56	Small Belt Pulley	1	89	TH230-89	Switch	1
21	TH230-21	Washer	2	57	TH195-29-24	Bearing	1	90	TH230-90	Power Cable	1
22	TH230-22	Wheel Cap	2	58	TH230-58	Flat Gasket	2	91	TH230-91	Self-Tapping Screw 4*14	4
23	TH195-19	Front Wheel Plug	2	59	TH230-59	Nut	2	94	TH230-94	Switch Inner Casing	1
24	TH230-24	Front Wheel	2	60	TH195-29-26	Belt	1	95	TH195-48	Upper Handle	1
25	TH195-21	Front Axle Cap	2	61	TH195-29-28	Nut M8	1	96	TH195-49	Middle Handle	2
26	TH230-26	Height Adj Left Handle Cover	1	62	TH195-29-29	Transmission Case Cover	1	97	TH230-97	Handle Knob	4
27	TH195-23	Spring	1	63	TH195-29-30	Large Belt Wheel Axle	2	98	TH230-98	Bolt 6*45	4
28	TH230-28	Washer	1	64	TH195-29-31	Bearing	1	99	TH230-99	Lower Handle	2
29	TH230-29	Height Adj Right Handle Cover	1	65	TH195-29-32	Large Pulley Pin	1	100	TH230-100	Connecting Cable	1
30	TH230-30	Self-Tapping Screw 4*12	8	66	TH195-29-33	Large Pulley	1	101	TH230-101	Cable Restraint	1
31	TH195-26	Front Axle Assembly	1	67	TH195-30	Shaft Retainer	1	102	TH230-102	Cable Clip	2
32	TH195-27	Junction Plate	1	68	TH230-68	Self-Tapping Screw 4*20	4				
33	TH195-28	Lock Nut	2	69	TH195-32	Up Bearing Pedestal	2				

# EC DECLARATION OF CONFORMITY



**We Handy Distribution Ltd - SN3 5HY (Importer) declare that the product:**

**Designation:** 1300 Watt 2-in1 Scarifier/Rake

**Model(s):** THSR

**Product Number:** 1938140001

**Type/Serial No:** As per rating label on machine

**Complies with the following directives:**

2006/42/EC – Machinery Directive

2014/30/EU – EMC Directive

2000/14/EC – Outdoor Noise Directive

**The conformity assessment procedure followed was in accordance with**

EN 60335-1:2012+A11, EN 50636-2-92:2014, EN 62233:2008, EN 55014-1:2006+A1+A2,

EN 55014-2:1997+A1+A2, EN 61000-3-2:2014, EN 61000-3-3:2013

**Notified Bodies:**

TÜV Rheinland LGA Products GmbH

**Address(es):**

Tillystrabe 2, 90431 Nürnberg, Germany

**Guaranteed Sound Power Level:**

(LWA) 104 dB(A)

**Vibration Measurement**

**With grass catcher:** Left handle:  $3.348\text{m/s}^2$  - Right handle:  $2.078\text{m/s}^2$

**Without grass catcher:** Left handle:  $3.420\text{m/s}^2$  - Right handle:  $3.591\text{m/s}^2$

**Authorised signatory & technical file holder**

**Date:**

21/11/2016

**Signature:**

**Name:**

Mr Simon Belcher

**Position:**

Managing Director

**Company:**

Handy Distribution Ltd

**Address:**

Murdock Rd, Dorcan, Swindon, Wiltshire, SN3 5HY.

# GJ HANDY & CO LTD USER WARRANTY POLICY

## **Users Statement of Warranty**

Each new machine is warranted against defective material or assembly of material under normal usage. The warranty applies to the original purchaser and covers faulty parts and the labour involved in replacing and repairing those parts, which are of original manufacture.

## **Period of Warranty**

### **All Webb & Webb Pro machines plus Sanli engines.**

- a) 2 years from the original date of sale to the first domestic user.
- b) 90 days from the original date of sale to the professional/commercial user.
- c) 90 days from the original date of sale when used for hire.
- d) A reduced warranty period of 90 days applies to those items which are subject to normal wear and tear (e.g. but not limited to wheels, tyres, cutter bars, cylinders, bottom blades, belts, cables, grass bags, spark plugs).
- e) Engines as per the manufacturer's warranty statement which will be supplied with the machine.
- f) 90 days from the original date of purchase for Replacement Spare Parts (unless normal wear & tear component, which are covered for 30 days).
- g) All machines' must be serviced within the first 12 months from the original date of purchase to comply with the warranty, failure to do so will invalidate the 2nd year of the warranty.

### **All Handy, Mowerland and Q-Garden products.**

- a) 1 year from the original date of sale to the first domestic user.
- b) 90 days from the original date of sale to the professional/commercial user.
- c) 90 days from the original date of sale when used for hire.
- d) A reduced warranty period of 90 days applies to those items which are subject to normal wear and tear (e.g. but not limited to wheels, tyres, cutter bars, cylinders, bottom blades, belts, cables, collection bags, spark plugs).
- e) Engines as per the manufacturer's warranty statement which will be supplied with the machine.
- f) 90 days from the original date of purchase for Replacement Spare Parts (unless normal wear & tear component, which are covered for 30 days).

All warranty repairs must be undertaken by an authorised service dealer. These dealers have been accredited by GJ Handy & Co Ltd and agree to only use genuine parts and follow our repair procedures.

# GJ HANDY & CO LTD USER WARRANTY POLICY

## **Not covered by this warranty**

- a) The warranty policy does not cover any depreciation or damages caused by ordinary wear, rusting or corrosion, lack of correct maintenance or operation, misuse, abuse, lack of transportation or accident.
- b) The warranty policy does not cover any costs necessary for the standard periodic maintenance services instructed by the operator's manual, or service parts replacement which would include oil, filters, tyres, belts, brake linings, fuses, blades, seals and other service parts unless it can be proven that the item has evidence of faulty manufacture.
- c) The warranty policy will not cover failure or damage caused as a result of parts or accessories being modified without the written approval of GJ Handy & Co Ltd.
- d) The warranty policy will not cover the unit if non-genuine parts have been fitted and as a result damage has occurred to the unit.
- e) The warranty policy is non-transferable and is only applicable to the original purchaser.

## **Disclaimer**

- a) This warranty is only a remedy for defect of products. GJ Handy & Co Ltd will never warranty in terms of the merchantability or the fitness for a particular purpose.
- b) No person is authorised to make any warranties, representations or promises, expressed or implied, on behalf of GJ Handy & Co Ltd, or to modify the terms conditions or limitation of this warranty policy in any way.
- c) Neither GJ Handy & Co Ltd nor any company affiliated with GJ Handy & Co Ltd shall be liable in any event or manner whatsoever for incidental or consequential damages or injuries, including, but not limited to, loss of crops, loss of profit, out of pocket expenses or profits, rental of substitute equipment or other commercial losses.

## **General**

- a) Most warrantable failures show up within the first few weeks of use. These failures are usually straightforward and warranty assessment is relatively easy.
- b) Failures relating to cutter decks and belts need careful investigation, as the cause may not always be straightforward. Look for damage to blades and pulleys especially when the cutter belt or blade boss have snapped or cracked as this could be due to impact damage.
- c) Customers should always refer to the operator/instruction manual when any disputed problem arises, you will find most areas covered within the manual.



For spares or support of your Handy product,  
please contact us:

Tel: 01793 333212

(Mon – Fri 8.00am to 5.30pm excl. Bank Holidays)

Email: [customerservice@handydistribution.co.uk](mailto:customerservice@handydistribution.co.uk)

**To see our range of garden machinery & equipment visit:**

**[www.thehandy.co.uk](http://www.thehandy.co.uk)**

**Making gardening easier & affordable since 1938**

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