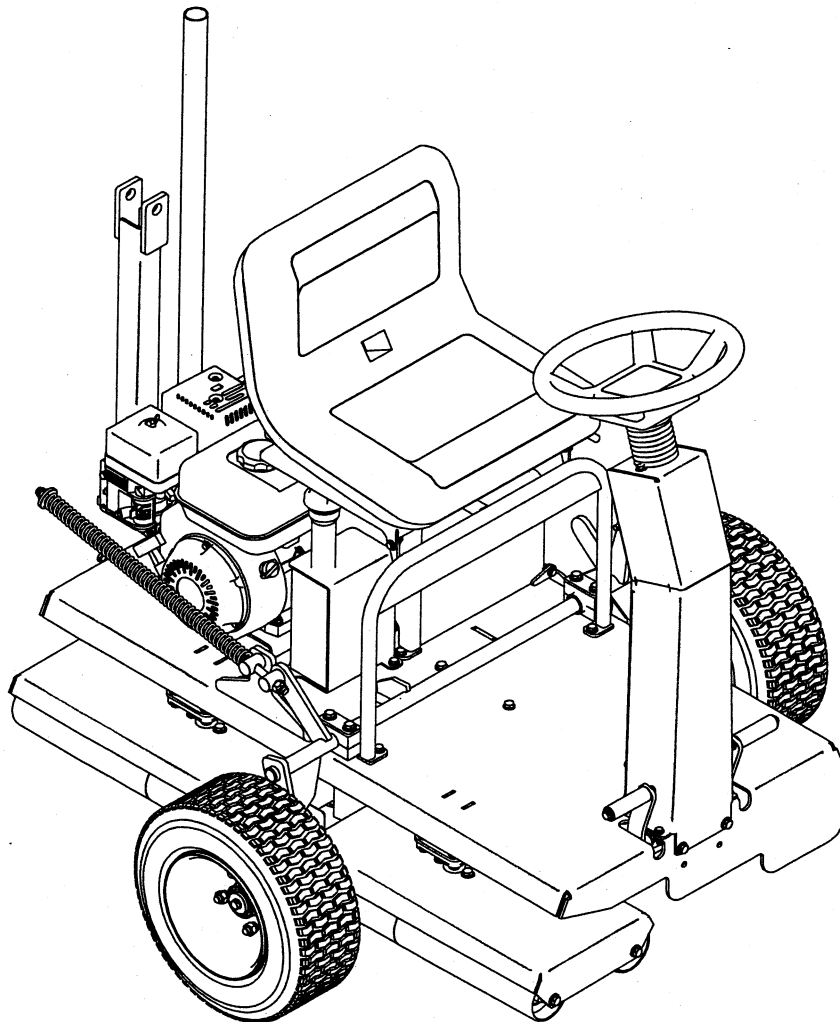


GRADEN[®]

INDUSTRIES

GSR-1200 GREENS ROLLER



Owner's Manual

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1.1 Specifications

Model	Graden GSR-1200 Greens Roller
Engine	Honda GX200
Power	6.5hp Horizontal shaft
Engine Oil	SAE 10W-30 Grade
Fuel	Unleaded
Transmission	Hydrogear BDR-317
Transmission Oil	SuperySyn Engine Oil 5W-40
Drive	Twin Chain to rear Drive Roller
Drive Roller	165mm Diameter Vulcanized Rubber Coated
Smoothing Rollers	89mm Diameter – 4 Split Rollers Overlapping twin steering heads
Rolling Swathe	1200mm
Weight	240 kg
Length	1360mm
Width	1220mm
Height	1070mm
Lifting Tyres	16 x 6.50 - 8
Lifting Tyre Pressure	65 kPa (10 psi) - maximum
Seat	Hi-Back, adjustable
Maximum Speed	10kmh

1.2 Statement of Machine Use

The Graden GSR-1200 Greens Rollers main use is as a rolling tool on areas such as golf courses, bowling greens, tennis courts and other sporting fields and fine turf areas.

It is not for use on turf areas where rocks and other hard foreign bodies may be present. The use of this machine in turf profiles of this nature will likely cause premature wear of the drive and smoothing rollers.

This machine is not for use in anything other than the soil profiles typically to be found on sporting fields and fine turf areas mentioned above.

Please contact Graden Industries if you are unsure about your application complying with the intended use of this machine.

1.3 Serial Number Plate

The serial number plate layout is shown below. It is important to note in particular the Model and Serial numbers to assist you when ordering parts or discussing servicing needs with your Graden Dealer. Also on the plate you will find mass information and the year of manufacture.

GRADEN	
INDUSTRIES PTY LTD	
26 - 28 SCAMMEL STREET	
CAMPBELLFIELD VICTORIA 3061	
MADE IN AUSTRALIA	
MODEL N°	MASS
SERIAL N°	YEAR

2. To the Owner

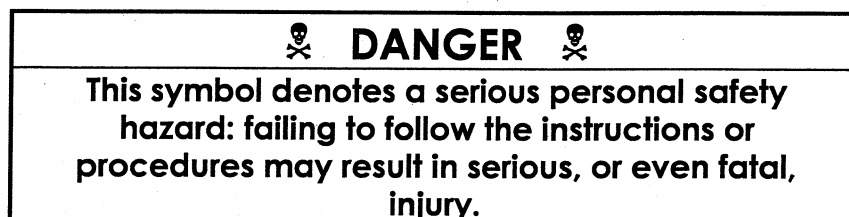
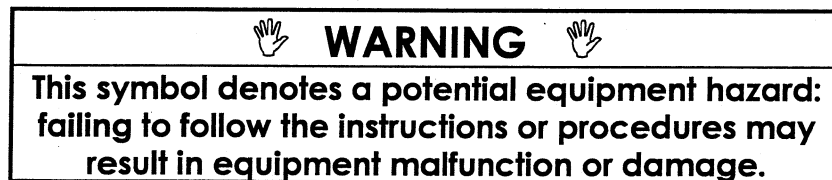
Read this manual before operating the Roller

2.1 Preliminary Instructions

- It is important that the owner completely familiarises themselves with the contents of this manual
- Keep this manual at hand as a ready reference for anybody using the Graden GSR-1200 Greens Roller
- The designed and tested safety features of this machine are dependent on it being operated within the limitations described in this manual

2.2 Warning Symbols

Throughout this manual the following symbols are used to indicate important safety issues. When either or both of these symbols are present the operator must be aware that there is the potential to damage equipment and/or incur serious personal injury.



2.3 Servicing the Graden GSR-1200 Greens Roller

The Graden GSR-1200 has been carefully engineered and manufactured to provide safe, dependable and effective service.

As with all mechanical equipment it requires routine cleaning and maintenance.

Your authorised Graden representative has access to tools, genuine spares and equipment to service any and all of your requirements.

Use only genuine Graden parts; substitute parts will void the warranty and may not meet the safety and performance standards required for safe and effective operation of the Roller.

Please record the model and serial numbers of the Roller in the space provided below and quote this information when ordering parts or communicating with Graden Industries or its' approved representatives.

Model Number : _____

Serial Number : _____

Date Purchased : _____

3. Safety Information

This manual is provided to help you operate and maintain the Greens Roller. Please read it carefully.

It has been compiled from extensive field experience and engineering data.



In some aspects it is generalised because it is impossible to cover all operating scenarios. However, combining the information provided in this manual with your own increasing experience and knowledge of the Greens Roller will enable you to develop procedures suitable for your individual needs.

This machine, like most modern machinery, is constantly undergoing development on the basis of experience and market needs. At the time of printing, material in this manual was current but may vary due to the aforementioned ongoing development.



Graden Industries reserve the right to change the machinery specifications without notice.

3.1 General Rules



- Direction on the machine (right or left) is determined from the seated position.
- Where numbers in brackets are listed in this manual they refer to the part numbers shown on the diagrams and are listed to assist in part identification.
- Do not allow children to operate the machine or be near it during its' operation.
- Only people who are very familiar with the rules of safe operation should be allowed to use this machine.
- Only use the machine during daylight or in good artificial light.
- Some illustrations in this manual may show the Roller with safety guards removed; this is not a normal situation!

 DANGER 
Never operate the Roller with any of the covers or safety guards removed or not properly secured.



3.2 Training

 WARNING 
Read this manual completely before beginning how to learn to use the Roller.

- Do not allow anybody to operate the machine without instruction
- Know your controls and how to stop the machine and shut down the engine quickly in an emergency
- To maintain control and reduce the possibility of upset, damage or collision, operate the machine smoothly. Avoid erratic operation and excessive speed

 WARNING 
Stay alert for holes, ditches or obstacles that might obstruct the unit or cause it to tip over.

- Be aware of the hazards associated with the engine:
 - ⇒ Petrol is highly flammable so only use an appropriate container
 - ⇒ Never remove the fuel cap or add fuel while the engine is running or still hot
 - ⇒ Never add fuel indoors and wipe up any spillages
 - ⇒ Never run the engine in an enclosed area because exhaust gases are toxic

 DANGER 
The engine uses highly flammable petroleum fuel and produces toxic exhaust gases. Only add fuel to, or run, the engine in the open - never indoors.

3.3 Personal Protective Equipment (PPE)

- Clothing should be reasonably snug fitting and not free flowing so as to avoid the risk of entanglement in moving parts
- Wear sturdy footwear, preferably steel capped safety shoes or boots
- Use appropriate PPE for eyes, ears and hands



DANGER



Never wear sandals, sneakers or have bare feet when operating the Roller.

3.4 Preparation

- Ensure all safety warnings and decals are in place and legible
- Remove any accumulated debris that might represent a fire hazard
- Perform any appropriate scheduled maintenance before starting the machine

3.5 Operational Safety

- Always repair any damage before recommencing operation



DANGER



Always stop the engine in any of the following situations :

- leaving the machine unattended
- attempting to unclog or clear the rollers of obstructions
- making any repairs or adjustments
- inspecting the unit for damage after striking any foreign object

3.6 Maintenance Safety



DANGER



Always turn off engine before carrying out any maintenance or servicing.

- Never allow anybody to start the engine while adjustments, maintenance or servicing are being performed.
- Keep machine free of any debris.
- Verify that all warning labels and decals are present, visible and legible.
- Periodically check that all bolts, fasteners and catches are secure and in safe operating condition.
- After any maintenance or servicing, ensure that all guards and safety devices are correctly installed and secure before operating the roller.

4. Controls

Please refer to the illustrations. All directions are given with reference to the operator sitting in the seat. Numbers in brackets refer to part numbers as shown in the diagrams at the back of this manual.

4.1 Steering Wheel

The steering wheel (5377) controls the angle of the smoothing rollers, which in turn steer the unit. The amount the wheel can be turned is limited, so the turning circle of the roller is relatively large.

To move forward or back simply turn the steering wheel to suit the direction you are aiming for. As the direction changes at the end of every run, you will need to practice with the roller to become accustomed to the steering. To explain; if you want to move forward while moving to the right, turn the steering wheel anti-clockwise, but if you want to move forward while moving to the left you must turn the steering wheel clockwise.

4.2 Motion Pedals

These two foot pedals (1335 & 1336), found either side of the steering wheel column (1313), control the motion of the rear drive roller (1467). The pedals are connected so they cannot both be pressed down at the same time, you can only go one way or the other. Basically if you press down on the right pedal you will move to the right, and if you press down on the left pedal you will move to the left. The further you depress these pedals, the faster will be your speed in that direction.

If you release both pedals at once, the transmission (5366) will automatically return to the neutral, stationary position. It is recommended that you operate these pedals smoothly, to extend the transmission life and avoid potentially dangerous sudden stops or changes in directions.

4.3 Lifting Bar

The lifting bar (1437) is stored on the tow bar bracket (1436) behind the operators seat (5080). It is used to create enough leverage force for the operator to raise the roller onto the lifting wheels (5317), making the roller ready for towing.

Firstly slide the lifting bar over the lifting arm assembly (1392) on the left hand side of the roller. You must now release the wheel lock bracket (1396) holding the lifting arm (1392), then start lifting the wheels with the lifting bar. The lifting bar spring (5382) assists in lifting the roller. Once you have moved the lifting wheels around so they are touching the ground, you will have to push harder to get them over centre and then they will lock into place.

When you want to let the machine back down on its rollers again, first release the wheel lock bracket and let the machine drop gently to the ground, then push the lifting bar down until the lifting arm assembly locks back into the upright position.