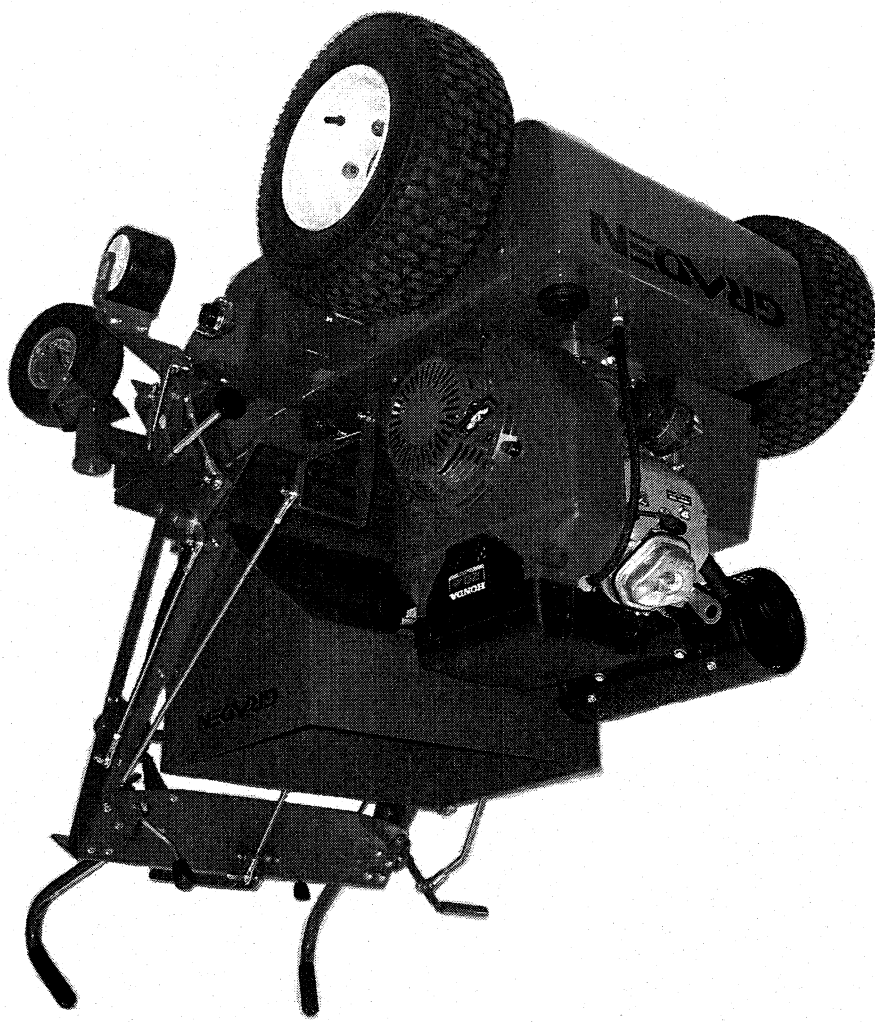


Owner's Manual

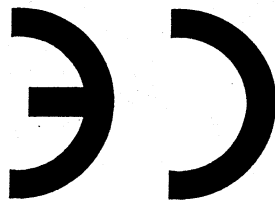


**CONTOUR SAND INJECTION
VERTICUTTER / SCARIFIER**

GRADEN[®]
INDUSTRIES

Graden Industries Pty. Ltd.
26-28 Scammel Street, Campbellfield
Victoria, AUSTRALIA 3061
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EC Declaration of Conformity



Graden Industries Pty. Ltd. Of 26-28 Scammel Street, Campbellfield 3061, PO Box 29 Somerton 3062, Victoria, Australia, as the manufacturer, Certifies that the machine stipulated below complies with all the relevant provisions of the:

EC Machinery Directive (98/37/EC) Electromagnetic Compatibility Directive (EMC) (89/336/EEC)

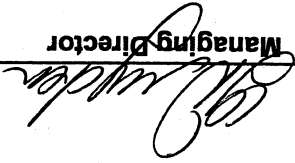
and the National Laws and Regulations adopting this directive and all relevant Essential Health and Safety Requirements.

Equipment description	:	Turf scarifier/aerator
Type	:	Pedestrian controlled
Title	:	CONTOUR SAND INJECTION VERTICUTTER
Serial No.	:	001500 thru to 050000

Harmonised standards applied: (including parts/clauses of):

EN292 pt 1, EN 292 pt 2, EN 294 1992, EN 563 1994.

Together with all relevant National Technical Standards and Specifications as applicable: (including parts/clauses of):

"Responsible" Person empowered to sign: 
Mr Graham Dryden
Managing Director

Date:

14-9-2005

GRADEN INDUSTRIES Pty. Ltd.

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GRADEN



MADE IN AUSTRALIA

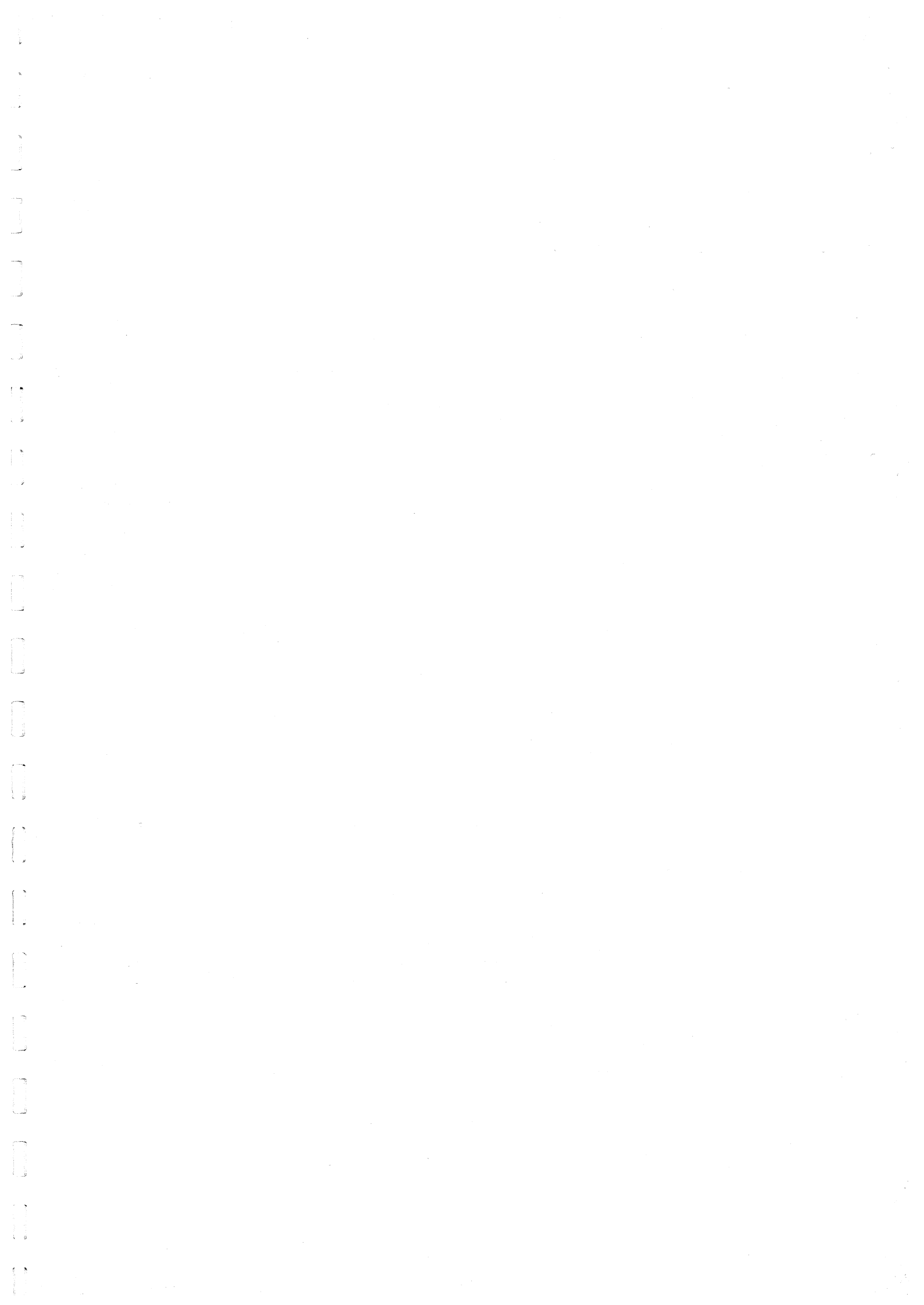


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1.1 Specifications

Model	Graden Contour Sand Injection Verticutter/Scarifier	
Engine	Honda GX620	
Power	20hp Horizontal shaft	
Engine Oil	SAE 10W-30 Grade Approx. 1.1 litres (without oil filter replacement) Approx. 1.4 litres (with oil filter replacement)	
Fuel	Unleaded	
Cutting Width	515mm	
Cutting Depth	0-45mm (maximum with standard blades)	
Blades	Tungsten carbide tipped spring steel	
Blade Size	210mm Diameter - 2mm tip (Standard) 210mm Diameter - 1mm tip (Optional) 210mm Diameter - 3mm tip (Optional)	
Blade Tip Speed	2,375m/min at 3600 rpm	
Blade Configuration	17 Blades at 32mm spacings	
Weight	290 kg	
Length x Width x Height	130cm x 103cm x 123cm	
Tyres	Front 16 x 6.50 - 8 Tuff Pattern - tubeless	Rear 9 x 3.50 - 4 Slick Pattern - tube type
Tyre Pressure	Front 65 kPa (10 psi) - maximum	Rear 205 kPa (30 psi) - maximum
Rotor Belts	B32 Super II V-Belt	
Rotor Relay Belts	B38 Super II V-Belt	
Transmission Drive Belt	A42 Super II V-Belt	
Auger Drive Belt	A24 Super II V-Belt	

1.2 Statement of Machine Use

The Graden Contour Sand Injection Verticutter/Scarifier's main use is as a verticutting/scarifying/de-thatching tool with the option to inject sand into the newly created grooves on areas such as golf courses, bowling greens, cricket wickets, 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 or shattering of the blade tips and could result in rocks being projected at dangerous speeds, resulting in potential injury to the operator or damage to the machinery.

This machine is not for use in anything other than the soil profiles typically to be found on the sporting fields mentioned above. Any use of this machine in any other type of surface or for any other purpose may void the warranty.

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 ^o	MASS	SERIAL N ^o
		YEAR

2. To the Owner

Read this manual before operating the Verticutter

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 Contour Sand Injection Verticutter
- 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.

