Operating Instructions and Spare parts list Verti-Brush®

Model 1500
Serial number:

REDEXIM
Kwekerijweg 8
3709 JA Zeist
the Netherlands
T: (31)30 6933227
F: (31)30 6933228
E: verti-drain@redexim.com
www.redexim.com

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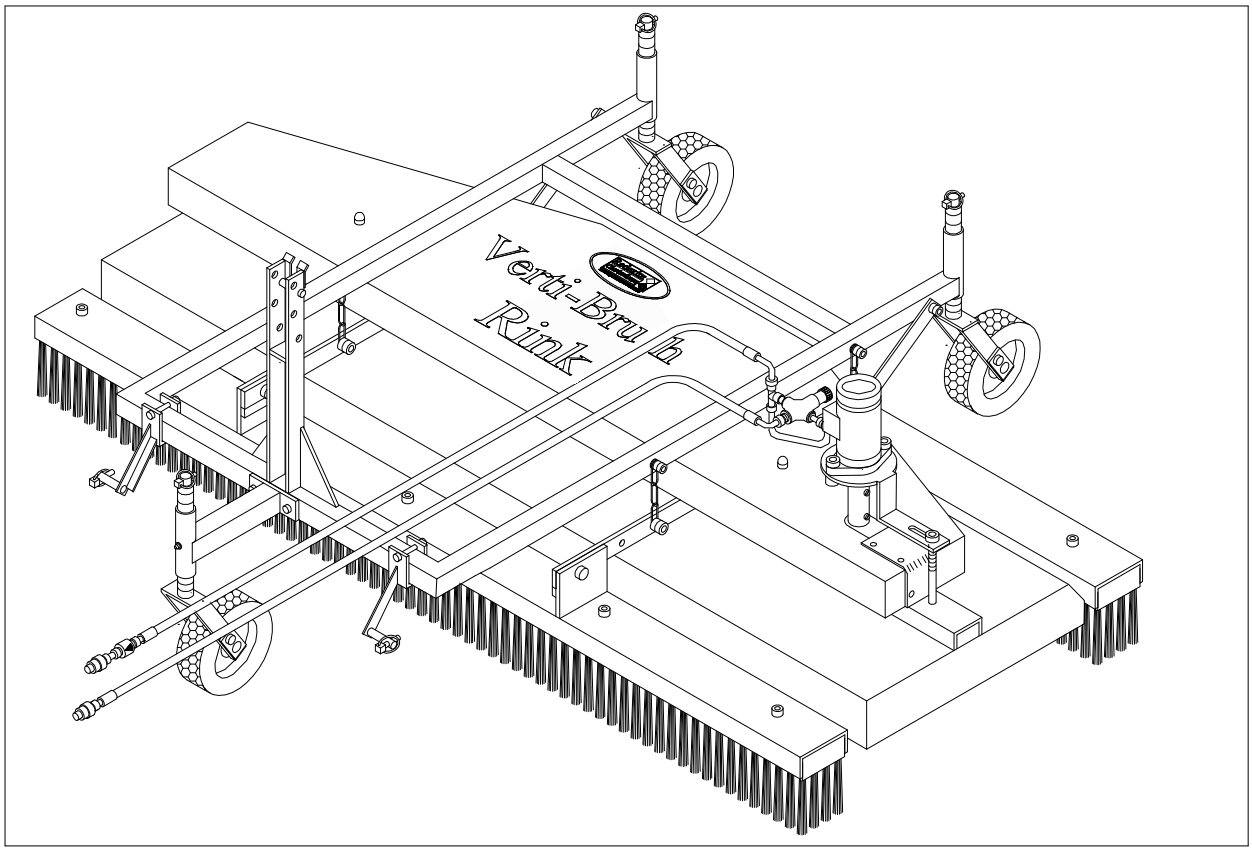


PLEASE NOTE:
TO ENSURE SAFE OPERATION OF THE MACHINE AND FOR BEST RESULTS IT IS ESSENTIAL TO READ THESE OPERATING INSTRUCTIONS CAREFULLY BEFORE USING THE VERTI-BRUSH®.

0948 English 942.120.200

T A B L E OF C O N T E N T S

Technical details subject to change

!!! SAFETY REGULATIONS !!!

(1) The **Verti- Brush** has been exclusively designed to brush in fine-grained, loose grit such as fine or coarse sand or similar materials. In addition there is the option of brushing up the sward without grit.

Any other use than the ones listed above is regarded as not being its intended use. The manufacturer shall not be liable for any damage resulting hereof, the risk remains solely with the user.

The intended use also includes complying with the manufacturer's operating, servicing and maintenance conditions.

(2) The brush has been manufactured with the latest technology available and is safe to use; however, the brush can pose a risk to the health and life of the user or third parties, if it has not been used, serviced and maintained by personnel who are familiar with it and aware of the dangers.

(3) Any person who has been asked to operate, maintain and repair the brush on the user's site, must first read the operating instructions and, in particular, this **Safety regulations** chapter.

For service and maintenance operations, the brush must be detached from the towing vehicle.

For repairs, only original spare parts from the manufacturer must be used.

Apart from the notes in these operation instructions, general health and safety regulations must also be followed.

It is not permitted to transport people on the device!

(4) The user shall examine the brush before every use for any visible external damage and faults. Should any changes occur (including in operating behaviour) that affect its safety, these must be remedied immediately. Alterations and modifications (except those approved by the manufacturer) are not permitted any under circumstance for safety reasons.

5) Prior to using the brush, the user must be familiarise himself with all the features and operating elements and their functions.

Attach brush as per the instructions (**risk of injury**!)

(6) Before commencing work on the hydraulic system, it must depressurised.

Check hydraulic hose lines at regular intervals and replace if damaged or worn. The replacement hose lines must meet the brush manufacturer's technical specifications.

(7) Prior to each trip, check machine for visible external damage and repair, if required. Check tyre pressure.

(8) The Verti-Brush will, in its immediate vicinity, generate a noise level of 74 dB (a).

Waste oil is hazardous to the environment; please dispose carefully.

SHORT DESCRIPTION

The **Verti- Brush** has been designed to brush in fine-grained, loose grit such as fine or coarse sand, or similar. The rotating brush segments are driven by a hydraulic motor. The hydraulic motor speed for the brush segments is continually adjustable via a flow regulator. Brushing intensity can therefore be controlled in different ways.

TECHNICAL DATA

Dimensions

Length .....1.30 m (51”)
Width.....1.50 m (59”)
Height.....0.85 m (33.5”)

Weights

Machine weight.....approx. 170 kg (375 lbs)

Working width .....1.50 m (59.5”)

Tyres.....Pneumatic tyre 260x85

Tyre pressure.....1.20 bar

Tractor power .....min. 10 KW (13 HP)

Brushing speed.....continually adjustable

Hydraulic connection values

Towing vehicle minimum flow rate.....10 l/min
Towing vehicle minimum pressure .....70 bar

The type plate is located on the left hand side of the machine.

OPERATION

Attaching and detaching

- Attach machine to towing vehicle.

  Position lower drag rod retainer (9) to fit towing vehicle.

  If required, fit castor wheel (10).

Note attachment variations

1. Retainer at the bottom of the lower pull rod (9) of the towing vehicle

   Retainer at the top

   a) fixed by means of fixed upper drag rod (15)
   b) flexible by means of upper drag rod chain (16)

When using the fixed retainer with upper drag rod (15), the front castor wheel must be removed to avoid damage to the lawn.

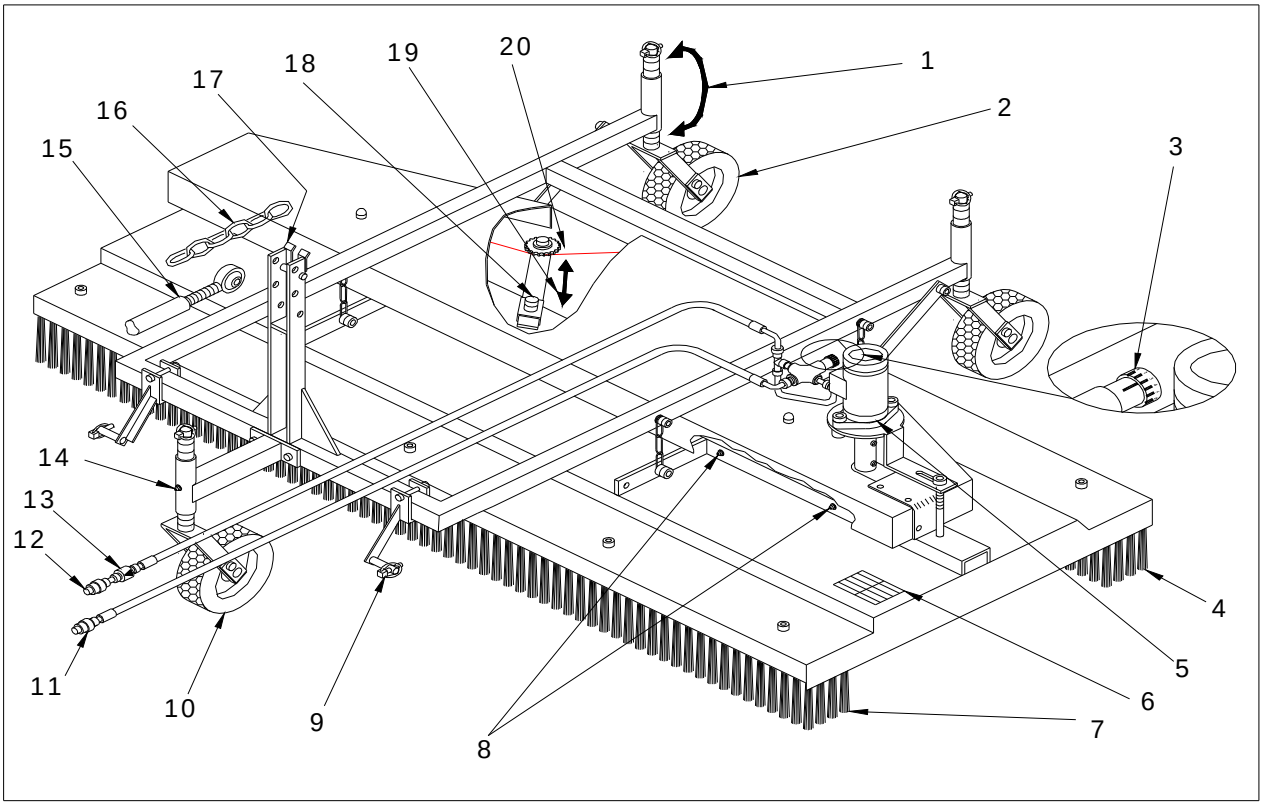


Fig. 1

OPERATION

Attaching and detaching

- Make hydraulic connection (11,12):
  The return line (12) contains a non-return valve (13) to prevent incorrect connection. Oil circulation is required. The hydraulic system is filled with CG 46 bio-hydraulic fluid by the manufacturer.

Run hydraulic hoses in such a way that they do not drag on the floor and/or chafe against the towing vehicle.

Carry out detaching procedure accordingly.

BRUSHING

Regulator (3) to control the speed settings for the rotating brushes
Scale graduations 0 to 10

See figure 1, page 5

CARE AND MAINTENANCE

Greasing machine (after every 50 hours of operation)

Grease with multi-purpose lubricating grease:

14 **Castor wheel bearings**

8 **Bearings on all sprockets (remove cover)**

20 **Lubricate chain with oil**

Bearings without lubricating nipple are maintenance-free.

See figure 1, page 5

CARE AND MAINTENANCE

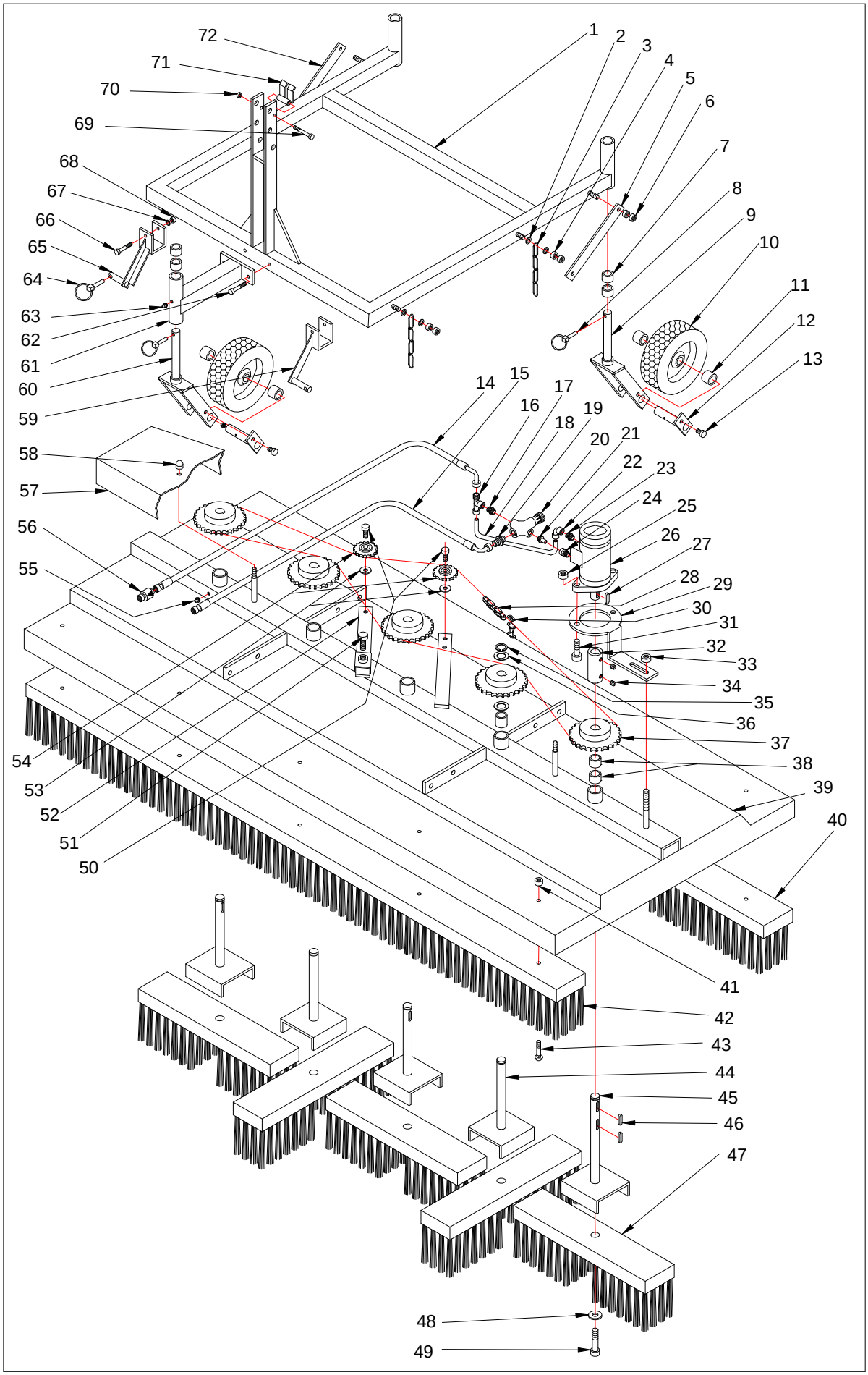
Tension chain (after every 15 hours of operation)

- Loosen set screw (18).

- Push chain tensioner (19) in the direction of the arrow, until the chain is tightly tensioned.

- Retighten set screw (18).

See figure 1, page 5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#	part number	discription	qua
1	RGS 3063	Wheel frame	1
2	864.100.030	Washer M10	8
3	RGS 3076	chain	4
4	826.100.100	Nut M10	12
5	RGS 3032	Support strip	2
6	826.100.100	Nut M10	12
7	RGS 3033	Washer	18
8	523.060..320	Linch pin 6 mm	3
9	RGS 3067	Wheel support	3
10	RGS 10611	Wheel	3
11	RGS 3034	Distance bush	6
12	RGS 3070	Shaft	3
13	804.080.120	Bolt M8x12	3
14	RGS 10657	Hydraulic hose	1
15	RGS 10657	Hydraulic hose	1
16	544.124.126	T connector	1
17	544.130.402	Nipple ½” x 12 mm	1
18	RGS 10444	Tube	1
19	544.130.402	Nipple ½” x 12 mm	1
20	RGS 10336	Mengenregler	1
21	543.210.120	Nipple ½” x 12 mm pre mounted	1
22	543.120.362	90 decree nipple 12 mm one side pre mounted	1
23	544.130.402	Nipple ½” x 12 mm	1
24	544.130.402	Nipple ½’’ x 12 mm	1
25	830.120.120	Self lock nut M12	2
26	RGS 10140	Hydraulic motor	1
27	884.080.250	key 8 x 20	1
28	RGS 10494	Chain 5/8	1
29	RGS 16055	Motor stud	1
30	638.160.160	Chain connector	1
31	802.120.400	Bolt M12 x 40	2
32	RGS 3027	Bush	1
33	830.120.120	Self lock nut M12	1
34	818.080.080	Set screw M8 x 8	2
35	870.030.160	Circlip	5
36	864.300.120	Shim 30 x 1.2 mm	5
37	RGS 15160	Chain wheel	5
38	RGS 10388	Bearing bush	10
39	RGS 3073	Main deck	1
40	RGS 10609	Front/Rear brush	1
41	826.050.050	Nut M5	10
42	RGS 10609	Front/rear Brush	1
43	820.050.450	Mushroom head bolt M5x45	10
44	RGS 3051	Brush holder	4
45	RGS 3052	Drive brush holder	1
46	884.080.200	Key 8x7x20	2
47	RGS10610	Brush	5

#	part number	discription	qua.
48	864.100.030	Washer M10	5
49	804.100.300	Bolt M10x30	9
50	804.120.400	Bolt M12x40	2
51	804.120.300	Bolt M12x30	9
52	RGS 3025	Chain tensioner strip	1
53	864.120.030	Washer M12	2
54	RGS 15102	Chain wheel compleet with bearing	2
55	880.060.100	Grease nipple M6	5
56	RGS 10341	One way valve	1
57	RGS 3075	Cover	1
58	826.080.080	Nut M 8	2
59	RGS 3048	Bottem three point linkage	2
60	RGS 3067	Wheel support	3
61	RGS 3043	Front wheel support	1
62	804.100.300	Bolt M10x30	9
63	880.080.100	Grease nipple M8	3
64	523.100.570	Linch pin 9 mm	2
65	RGS 3048	Bottem three point	2
66	802.100.800	Bolt M10x80	2
67	864.100.030	Washer M10	2
68	830.100.100	Self lock nut M10	2
69	802.120.900	Bolt M12 x 90	1
70	830.120.120	Self lock nut M12	1
71	RGS 3039	Block strip for chain	1
72	RGS 3032	Support strip	2