



# Manual Maredo® GT 424-03 VibeSpike- SeederC

Serial no.:

## **IMPORTANT:**

The required (hydraulic) power depends on the working depth, soil conditions, working speed etc. The condition of the triplex greensmower and the ambient temperature determine the available capacity. Everybody should check the greensmower during work if it isn't overloaded by checking the heat built up and take the correct measurements.

**MAREDO DOES NOT TAKE ANY LIABILITY FOR GREENSMOWER DAMAGES**



**For a safe operation it is essential, that the operator reads and understands the manual of the Maredo machine.**

MAREDO BV, Rijksweg 16, 3956 CR Leersum, The Netherlands

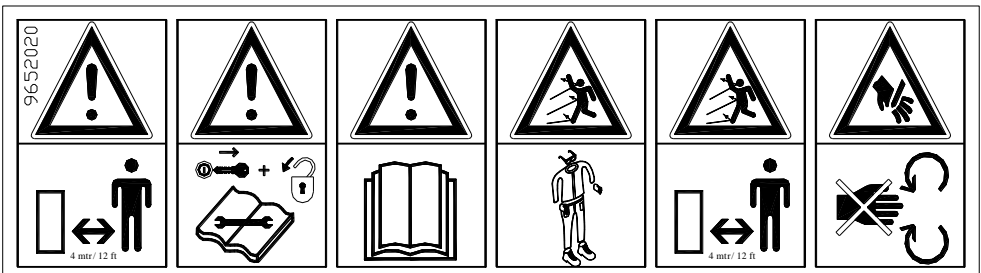
[WWW.MAREDO-BV.COM](http://WWW.MAREDO-BV.COM)

EN 20.13

## **SAFETY INSTRUCTIONS.**

1. Never **disconnect or shortcut any of the safety devices.**
2. Every **MAREDO user must be fully informed** and understand the safe use of the MAREDO machine.
3. **Inspect the ground**, where the MAREDO machine is to be applied. Remove loose obstacles, avoid uneven areas.
4. **Drive carefully** during work and during transport.
5. Ensure that **other people are standing at least 4 mtr./ 12 ft away** from the MAREDO machine during work and transportation.
6. **Use appropriate clothing**. Wear strong shoes with steel enforced toe caps, long trousers, gloves, tie up long hair and use protection glasses for the eyes.
7. **Never overload** the Maredo.
8. **Check the MAREDO minimal once a week**, to ensure there are no loose bolts and nuts. Check for damages too and repair it.
9. The MAREDO **may never be used without protection covers** and safety decals.
10. **Use only original MAREDO spare parts**, in order to ensure the safe operation of the machine.
11. **Never use the MAREDO** in the dark, in heavy rains, on frozen grounds, stony conditions and/ or on slopes steeper than 30 degrees.
12. **Maintain a logbook** of repairs
13. Be aware that **changes to the MAREDO**, releases MAREDO from any CE regulations.

Act to the safety instructions as shown on the yellow safety decal on the machine:



## **FOREWORD**

Congratulations on the purchase of your MAREDO®. To ensure the safe and long-lasting operation of the MAREDO machine, you and anyone using the machine, should read and understand this user's manual.

Also ensure that you understand and practice the safety rules, as described in this manual.

*This MAREDO machine is delivered accomplished by a guarantee against material and assembly errors. This guarantee applies for a period of 12 months, as from the date of purchase.*

## **TECHNICAL SPECIFICATIONS.**

Model	: GT 424-03
Working width	: 520 mm/ 21" per head
Working depth	: 7-15 mm/ 0.28- 0.60".
Hole spacing	: 20 x 45 mm/ 0.80 x 1.77"
Driving speed	: 0.5- 4.8 km/h / 0.3- 3 mph
Dosing rate	: Kentucky: 5,2 – 32.2 gr/ m <sup>2</sup> = 1.04 – 6.44 lbs/1000 sq.ft.
	Fescue : 2.4 – 14.5 gr/m <sup>2</sup> = 0.48 - 2.90 lbs/ 1000 sq.ft.
Weight	: 70 Kg/ 154 lbs per head.
Overall Dimensions	: 72 x 44 x 24 cm / 29 x 18 x 10"

## **EU- declaration**

We, MAREDO, Rijksstraatweg16, 3956 CR Leersum, The Netherlands, hereby declare fully on our authority, that the product:

MAREDO GT410, with serial number as indicated on the machine and in this manual, to which this declaration applies, has been manufactured in line with NEN-EN -ISO 14121-1:2007, according to the stipulations of The Machine Directive 2006/42/EG.



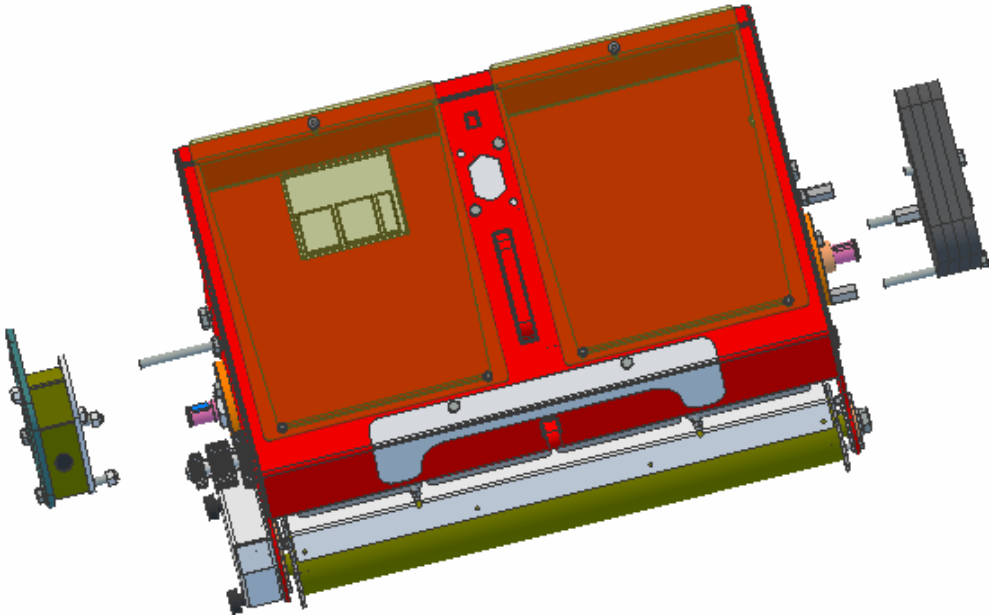
Marinus Reincke Maredo BV The Netherlands

## **FIRST SETUP:**

Unpack the GT424 carefully from steel side panels.

If the drive side needs to be changed to the other side, do NOT remove the main spike shaft. You can easily exchange the side weights with the complete gearbox, because the main spike shaft has a tap for the belt pulley at each side.

Carefully take the belt drive apart and built it exactly the same way at the other side of the head. Same thing for the side weights incl. the bolts/ nuts.



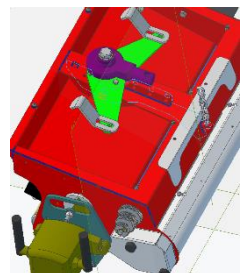
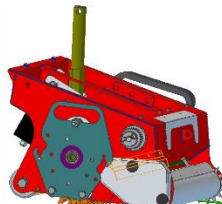
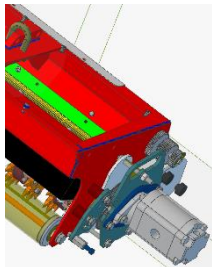
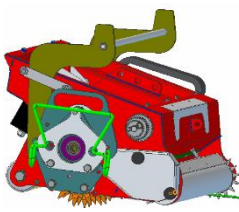
Normally the GT424 is delivered with the right greensmower mounting kit. We have the following kits available:

TORO Triflex  
2500B/E

3150/3250

Jac. Gplex/ Gking

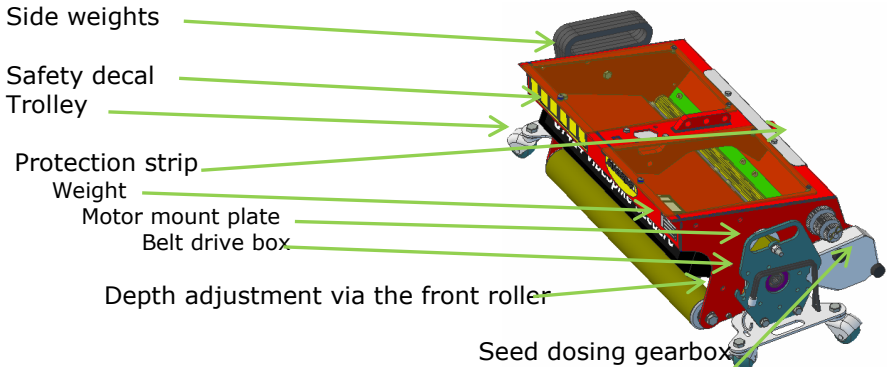
JohnDeere



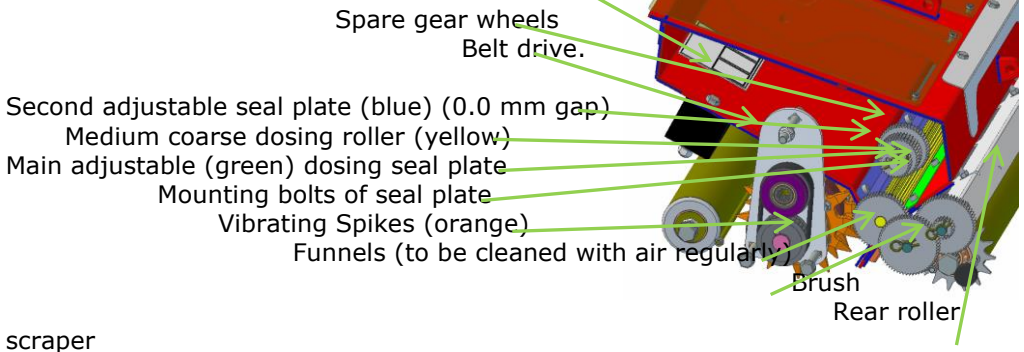
## **GENERAL TIPS/ REMARKS**

1. Do not use the seeder unit in wet conditions. The funnels may clog.
2. You can check the dosing rates yourself. 10.3 revs of the front roller equals 1m<sup>2</sup> (or 9.4 revs matches 10 sq ft). Measure the seed amount and you know the dosing per m<sup>2</sup> or per 10 sqft.
3. Clean the unit regularly with air or low-pressure water. DO NOT USE HIGH PRESSURIZED WATER. Use air to clean the seed funnels.
4. Fertilizer can be applied, as long as it can be fed through the dosing roller, however the zinc plated dosing roller may get hurt. BE CAREFULL and CLEAN WELL.
5. Play with the engine throttle and the forward speed, if the holes do not look nice. You may even use the heads without the hydraulic motor running (the spikes just roll over the surface, without vibration).
6. If the holes are not deep enough, slow down on driving speed and/ or increase the engine rpm's, so that the vibration per spike increases and a bigger hole is created.
7. The dosing rate is not only determined by the gear set, but also by the gap between the dosing roller and (rear) seal plate. See also the dosing decal in the seed box. The larger the gap, the more seed is sown. Calibrate yourself, if needed.
8. The heads are very heavy and need two persons to carry (with the grip at each side). However an easy trolley is standard delivered that can be mounted underneath and which makes it easy to roll the heads under or away from the greensmower.
9. You can play right after the green has been overseeded.
10. Don't make tight curves. Straight passes are the best, with a final clean up pass.
11. Check if the heads are well mounted at your greensmower. If not adjust the mounting kit. The heads should be floating during work and secured during transport.
12. If the seed boxes seed at different rates, check & adjust the gearwheel setting and the gap between the dosing roller and the (rear) seal plates of each individual head.
13. If your turf is damaged during start-up (as the spikes start spinning), start at lower engine rpms, outside the green, or drop the heads down with the greensmower still in transport mode. When at the ground, switch back to the work mode and engage the drive.  
For some Toro model greensmowers, we have an electronic delay relais available that will help you solving the problem.
14. Be careful when dropping the units on a hard (concrete) floor. PUT SOMETHING UNDERNEATH TO PROTECT THE SPIKES, PLATES OR ROLLERS. Or just simply use the trolleys all the time.
15. Check bolts and nuts regularly.

## **USER NOTES AND DEFINITIONS.**



Top cover seedbox. Click-on thoroughly  
 Dosing decal for Bluegrass and Fescues



scraper

The funnels are mounted against the rear panel of the seed box. You can see from the top if they are all open. **DO THAT REGULARLY.** If needed clean the funnels, by using air. Blow it from the top and from the bottom (by tipping the head). By changing the two gears behind the R clip, a different dosing is achieved. See the decal inside the seed box.

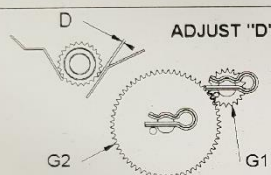
Clean the seed box and dosing system, especially when coated seed is used regularly.

## **MAINTENANCE.**

- 1) Check nut, bolts and other parts of the machine on a regular base. Check for damages or loose parts and fix and tighten the eventual errors prior to use.
- 2) Never use a high pressure water washer to clean the GT424. Using a high pressure washer will relieve damage the machine and its bearings. Make sure to use low pressure water or compressed air to clean the machine. Make sure to clean after every use.

## **DOSING RATES.**

At the decal in the seedbox, you will find the dosing rates of Kentucky and Fescue. If you want to use another seed or if you want to check the setting, turn the front roller 10.3 rpm and measure the amount of seed. The weight is the amount of seed per 1 m<sup>2</sup>. If the 3 heads dose uneven, fine tune via resetting the gap between dosing roller and rear seal plate.

<b>DOSINGRATE TABLE FOR GT424 1824</b>									
		<b>KENTUCKY</b>				<b>FESCUE</b>			
		D= 0.0 mm		D=0.5 mm		D= 0.0 mm		D=0.5 mm	
		gr/m <sup>2</sup>	lbs/1000	gr/m <sup>2</sup>	lbs/1000	gr/m <sup>2</sup>	lbs/1000	gr/m <sup>2</sup>	lbs/1000
<b>G1</b>	<b>G2</b>	<b>5.2</b>	<b><u>1.04</u></b>	<b>6.4</b>	<b><u>1.28</u></b>	<b>2.4</b>	<b><u>0.48</u></b>	<b>3.2</b>	<b><u>0.64</u></b>
teeth	teeth	<b>9.4</b>	<b><u>1.88</u></b>	<b>11.6</b>	<b><u>2.32</u></b>	<b>4.2</b>	<b><u>0.84</u></b>	<b>5.8</b>	<b><u>1.16</u></b>
		<b>10.6</b>	<b><u>2.12</u></b>	<b>19.4</b>	<b><u>3.88</u></b>	<b>7.0</b>	<b><u>1.40</u></b>	<b>9.0</b>	<b><u>1.80</u></b>
		<b>25.2</b>	<b><u>5.04</u></b>	<b>32.2</b>	<b><u>6.44</u></b>	<b>10.5</b>	<b><u>2.10</u></b>	<b>14.5</b>	<b><u>2.90</u></b>

