

DOUBLE YOUR SPREADER WARRANTY TO TWO YEARS

By going online to: rataindustries.co.nz/register-product



**RATA INDUSTRIES GROUP LTD
PO BOX 2032
WASHDYKE
NEW ZEALAND 7941**

ACQUISITION AND WARRANTY

On delivery of your spreader carefully check for transit damage and report any defects immediately. The commencement of warranty is based on the purchase date of your machine, provided you are registered with Rata Industries within 14 days of the purchase date. Warranty claims will only be processed upon receipt of proof of purchase and warranty registration within 14 days. If you wish you may also complete the following and post to the address shown.

MODEL	SPREADMAX 240
SERIAL NUMBER	
OWNER	NAME
	ADDRESS
	EMAIL
	PHONE
PURCHASE DATE	
DEALER	COMPANY NAME
	SIGNATURE
<p>I, the new owner of the above product, accept the above details are correct and that I have received sufficient training to operate the machine safely and correctly</p> <p>OWNER SIGNATURE</p>	

Lifestyle Block
 Dairy Farm
 Drystock
 Orchard/Vineyard

How did you hear of Vogal? _____

CHECKLIST FOR VOGAL WHOLEGOODS

Model

Spreadmax 240

Serial Number

**Pre dispatch
Manufacturer**

**Pre Delivery
Dealer**

All Bolts Tight

Drive Engagement Greased & Aligned Correctly

Oil Level Correct In Gear Box(s)

Operators Manual Attached to Machine

Checked and Test Run

Alignment of Agitator is Correct
Spinner Disc Spins Freely

Signed off by:
Vogal Dispatcher

_____ *Date*

Signed off by:
Dealer Dispatcher

_____ *Date*

Installation Check

Acquisition Warranty (p.t.o) completed and returned to Vogal

Drive Shaft Correct Length for Tractor

PTO Speed Correct for Machine

Signed off by: _____
Dealer Deliverer *Date*

SPREADMAX 240

Operation, Maintenance & Parts Manual



Rata Industries Group Ltd
Ferrier Rd
Winchester
South Island
New Zealand

DEAR CUSTOMER

Rata Industries would like to take this opportunity to welcome you as the new owner of a Vogal Spreader. We want your spreader to be the most efficient and reliable piece of equipment you have. This manual has been produced to assist in the correct operation, maintenance and care of your machine.

The safe operation and maintenance of your spreader is very important to prevent any personal injury and/or damage. Read and fully understand the following instructions before using your machine or carrying out any maintenance.

WARRANTY

Rata Industries warrants new products sold by it, to be free from defects in material and workmanship for a period of 12 months after the date of purchase to the initial user. This warranty is for the replacement or repair of any part found to be defective during the warranty period. This warranty only applies to new Vogal products.

If the product is purchased for commercial use or hire gain, then the warranty is reduced to three months. Should the product fail as a result of a fault in material or sub-standard workmanship by the manufacturer within the warranty period then Rata Industries will agree to repair this product subject to the conditions of this warranty.

This warranty excludes any transport costs or damage and excludes all normal maintenance costs. Rata Industries will not pay for mileage, freight, courier costs, oil, grease or any other expendable materials. As the use of the Vogal product is outside our control, Rata Industries accepts no liability for lost earnings or down time directly or indirectly caused by the machines performance.

Replacement parts provided under the terms of this warranty are covered for the remainder of the warranty period applicable to the product in which they were installed as if such parts were original components of that product.

No warranty work is to be started without first getting approval and following the correct warranty procedures as set out by Rata Industries. Rata Industries will not under any circumstances pay for or repair any damage caused by misuse or neglect of any machine.

All warranty issues and claims are totally at the discretion of Rata Industries.

Warranty Exclusions: loose bolts and screws including worn holes for the same, belts, tyres, blades, PTO shafts, disc bearings and hydraulic hoses, these parts are generally not covered by this warranty.

DELIVERY

The machine is delivered fully assembled, however, before use carefully check the entire machine for transit damage and report any problems immediately.

*Rata Industries thanks you for buying our product.
We are sure you will be impressed!*

GENERAL

Spreadmax fertiliser spreaders have been designed to spread general Granulated fertilisers, Urea, Grass seed, and particularly Causemag, plus other similar products. The wide wheel base and strong frame design of the Spreadmax Fertiliser ensure safety and stability when towed behind four wheeled ATV's.

CAPACITY AND DIMENSIONS

Model	Hopper Capacity (Litres)	Hopper Capacity (Kg)	Wheel Size	Gearbox Oil Type	Gearbox Oil Capacity (Litres)	Max Road Speed with Spinner UNENGAGED	Overall Width of Machine
Spreadmax 240	240	240	18x9.50-8	EP 90	0.5	30kph	1560mm



SAFETY INSTRUCTIONS

WARNINGS AND CAUTIONS

- Throughout this manual the word **WARNING** is used to alert the operator and others to the risk of personal injury during the operation of the equipment. **CAUTION** indicates the possibility of damage to the machine.
- Carefully read and take note of the following warnings before attempting to tow or operate the spreader.

Warning: Ensure the spreader tow hitch is in good repair and suitable for towing.

Warning: Check that all moving parts are in good repair and that all the fasteners are correctly tightened.

Warning: Never allow any person to ride on the spreader.

Warning: Never tow the spreader with the spinner drive engaged at a speed greater than 20kph.
NOTE Maximum towing speed with the drive **DIS**ENGAGED is 30kph.

Warning: Do not exceed the maximum weight/capacity specified by the manufacturer of the towing vehicle.

Warning: Foreign objects can cause extensive damage to the machine and result in injury to the operator. Make sure that the contents of the hopper are clean and free of debris and foreign objects before use.

Warning: Before using the spreader the operator should ensure that this manual is read and fully understood.

INSTALLATION

PRE-START CHECKS

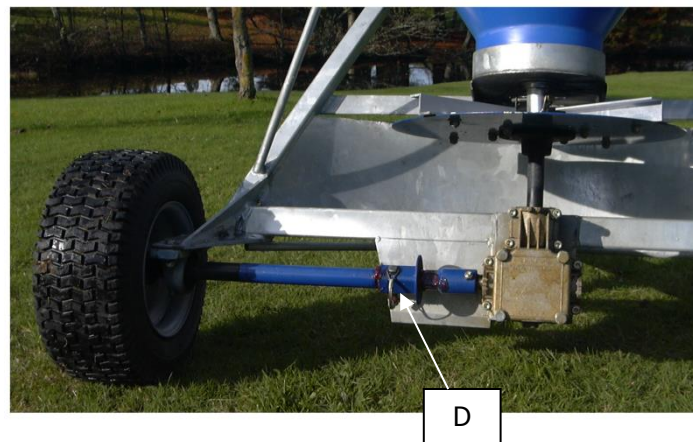
1. Ensure that the towball on the vehicle is compatible with the spreader. The spreader is designed to accept a 1-7/8" diameter towball.
2. Check the operation of all controls.
3. Check the tyre pressure 10psi minimum to 25psi maximum dependant on load size.
4. Check the condition of the tyres. Look for signs of wear, cuts and impact damage.
5. Check the free operation for the shutter lever.
6. Check the condition of the hopper and lid.
7. Check that all grease points have been greased.
8. Check the gearbox for oil leaks, if an oil leak is evident do not use the spreader and carry out repairs immediately.
9. Check that the agitator is movable, free from debris and well greased.



INSTALLATION

OPERATING

1. Before filling the hopper, set the flow from the hopper to the desired position by moving the lever (A) to the setting required (B) and locking it into place with the tri knob (C).
2. Place the shutter lever (A) in the zero position and fill the hopper with the material to be spread.
3. Drive to the area requiring the fertiliser, engage the D pin (D) to the IN position and re-lock the D pin to engage the drive. Obtain desired spreading speed e.g. 15kph and open shutter lever (A) until lever hits stop (B).
4. It is important to remember that a constant speed ensures a constant spread width. When turning, turn clockwise in order to maintain a constant spinner speed.



INSTALLATION

CALIBRATION

To precisely calibrate the spreader carefully read and perform the following instructions.

1. Place a measured amount of fertiliser in the hopper e.g. 10kg (A).
2. Choose an aperture setting to suit the rate required for the type of fertiliser used, e.g. Setting 6 (B).
3. Obtain the desired travel speed (12 to 15 km/hr) and open the aperture to preset setting 6, e.g. 200 metres (C).

NOTE Maintain a constant speed and coverage width, e.g. 8 metres (D).

4. Check the effective spread coverage width, e.g. 8 metres (D).
5. Measure the amount of fertiliser left in the hopper, e.g. 4kg (E).
6. Then perform the following calculations:-

Measured amount of fertiliser initially loaded in the hopper (A)	10kg
Deduct any remaining fertiliser (E)	4kg
Balance used	6kg

Multiply width of spread (D)	8 metres
By the metres travelled (C)	x 200 metres
	= 1,600sq. metres

Dived 10,000 by the answer (1,600)	10,000 / 1,600 = 6.30
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Multiply the sum (6.30) by the test quantity used (B)	6kg (B) x 6.30 = 37.80kg
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The figure achieved is the sowing rate per hectare at the constant speed selected for the test. Due to the variations of seed and fertiliser types, it is recommended the test be carried out for each product being used.

CALIBRATION SETTINGS

Calibrated at a speed of 15kph (kg/ha)

Setting	1	2	3	4	5	6	7
Urea	-	-	11.00	29.70	44.83	63.30	82.50
Super	-	-	19.30	44.00	77.00	112.80	140.30
DAP	-	-	19.30	35.80	57.80	79.80	104.50

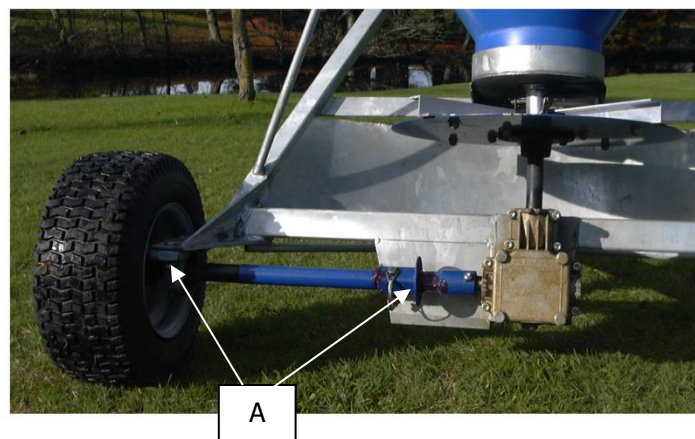
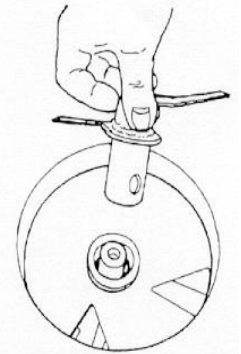
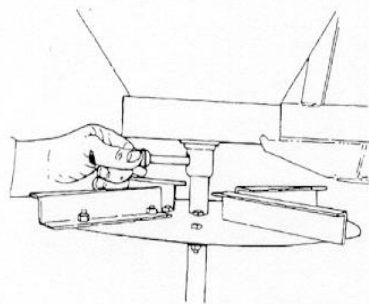
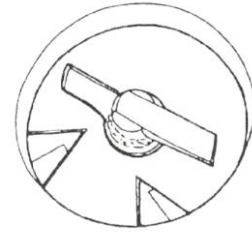
Calibrated at a speed of 20kph (kg/ha)

Setting	1	2	3	4	5	6	7
Urea	-	-	7.50	20.00	32.50	50.00	62.50
Super	-	-	20.00	42.50	62.50	82.50	102.50
DAP	-	-	10.00	25.00	40.00	60.00	75.00

NOTE: These calibrations are a guide only and should be checked to confirm accuracy.

MAINTENANCE

1. Maintenance should be undertaken regularly, good maintenance extends the life of the spreader.
2. Check the wheel bearings for play and pack grease every six months.
3. Open the aperture and clean around the aperture blades and holes.
4. Periodically remove the agitator by removing the pin located under the hopper.
5. Lift the agitator, clear of the shaft and remove any residue, grease and replace the agitator. Ensure the retaining pin is refitted and held in place by the spring clip.
6. Check the condition of the engagement mechanism and grease daily. Use the following procedure, firstly engage the drive, and then pump grease into the grease point.
7. Grease the drive wheel bearing at the grease point indicated.
8. Check the oil level in the gearbox. To check turn the spreader on its side, remove the filler plug located in the base, check that the oil is level with the rim of the hole, top up if necessary.
9. Change the gearbox oil (EP 90) every six months with normal use or every three months under extreme conditions. The quantity of oil required is 500ml.

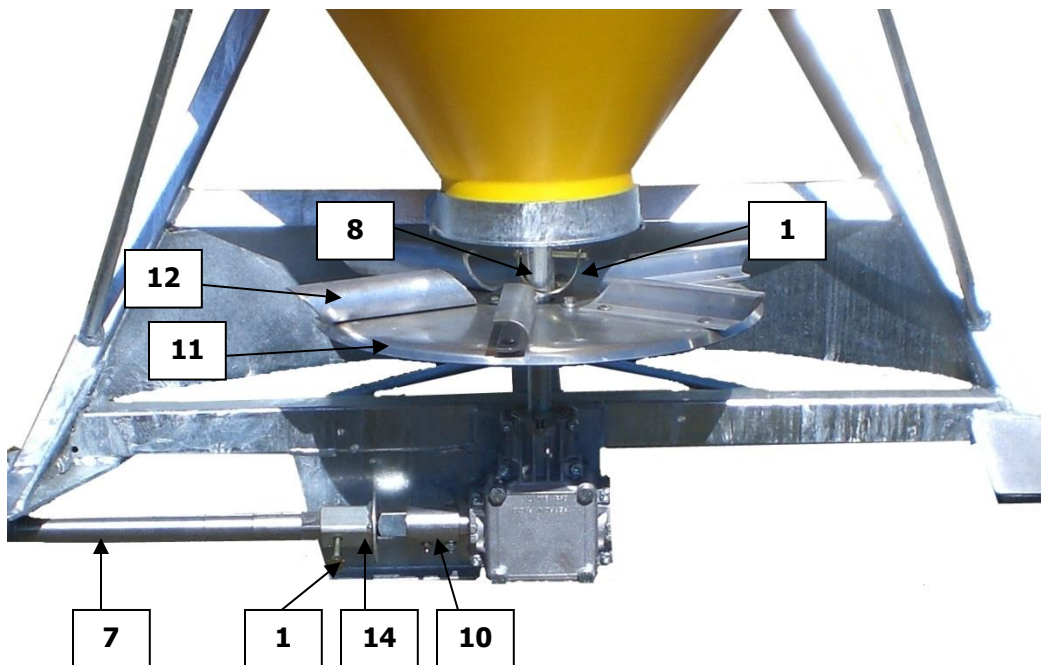
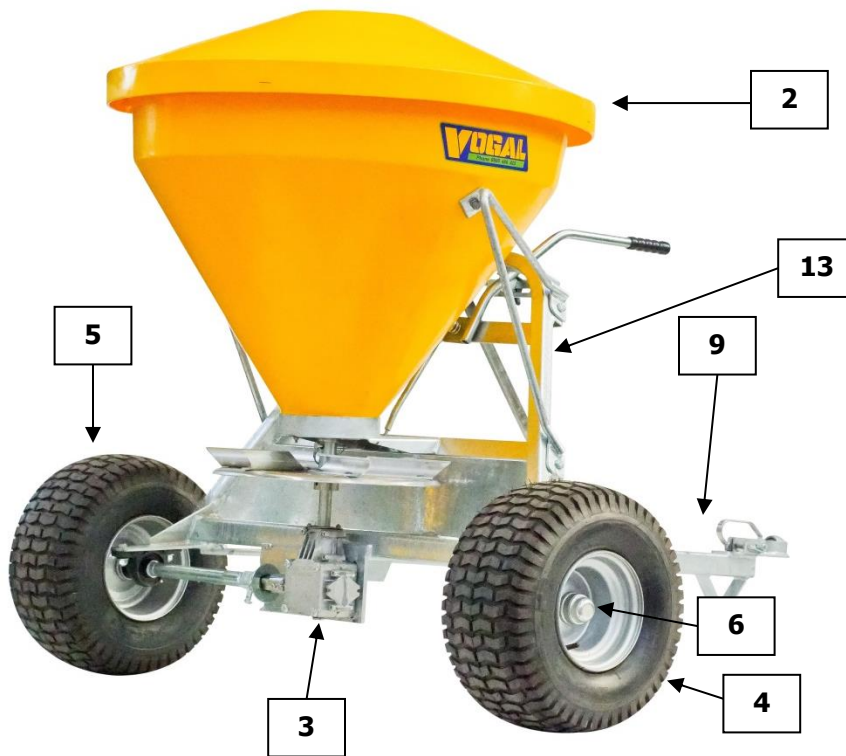


REPLACEMENT PARTS

1. To order replacement parts please quote the spreader model, serial number and date of purchase.
2. The serial number is located on the spreader tow bar as shown below.
3. The following pages detail the replacement parts available.



SPREADMAX 240 PARTS LIST



SPREADMAX 240 PARTS LIST

Item	Part No.	Description	Qty	Notes
13	SP121-001	Main Frame	1	
8	SP100-008	Agitator	1	
9	SP100-011	Towbar Adjuster	1	
	SP100-012	Shutter Lever	1	
	SP100-017	Pointer	1	
	SP100-034	Drive Axle Key	1	
11	SP102-004	Spinner Disc	1	
12	SP102-005	Spinner Fin	6	
14	SP121-006	Drive Slider	1	
	SP100-003	Agitator Bush	1	
7	SP100-007	Drive Axle	1	
10	SP100-016	Drive Stub	1	
	1901	Shaft Guard (trailed spreader)	2	
	SP100-043	Hopper Cross Stay	1	
2	1802	Hopper & Lid Yellow	1	
3	2121	Gearbox RV010	1	
	1944	Shutter Plate	1	
4	2188	Non-Drive Wheel 18x950-8	1	
5	2189	Drive Wheel 18x950-8	1	
6	2801	Hub Cap	2	
	1226	Coupling WBB 2000 1 7/8	1	
	1838	Bearing Housing	1	
	1845	Drive Axle Bearing	1	
1	1093	D Pin	2	
	1094	Spring	1	
	1644	Grip Handle 22mm	1	
	1651	Tri Knob Female 8mm	1	
	1679	Felt Washer	1	
	4150	M6 Nut S/S	12	
	4152	M6 Nut Nyloc Zinc	2	
	4156	M6x16 Bolt Zinc	2	
	4157	M6x16 Coach Bolt S/S	12	
	4192	M6 Washer (12x1) S/S	12	
	4254	M8 Nut Nyloc Zinc	1	
	4258	M8x16 Bolt S/S	3	
	4272	M8x50 Bolt Zinc	1	
	4280	M8 Washer Spring S/S	3	
	4284	M8 Washer (16x1.2) S/S	3	

SPREADMAX 240 PARTS LIST

Item	Part No.	Description	Qty	Notes
	4285	M8 Washer (16x1.2) Zinc	1	
	4353	M10 Nut Nyloc Zinc	7	
	4359	M10x30 Bolt & Nut Galv	1	
	4378	M10x65 Bolt Zinc	1	
	4379	M10x70 Bolt Zinc	2	
	4384	M10x120 Bolt Zinc	4	
	4390	M10 Washer Spring Galv	3	
	4395	M10 Washer Square Galv (50x50x3)	3	
	4399	M10 Washer (24x3) HD Zinc	5	
	4453	M12 Nut Nyloc Zinc	2	
	4468	M12x40 Bolt Zinc	2	
	4499	M12 Washer (28x3) HD Zinc	2	
	4655	M16 Nut Nyloc Zinc	2	
	4690	M16 Washer (35x3) HD Black	2	
	5042S/S	Circlip 45mm External S/Steel	1	
	5049	Grease Nipple M10x1.0 Straight	1	
	1744	Decal 0-7 150 Shutter Numbers	1	
	3012	Decal "240"	1	
	SP100-039	Hopper Side Arm LH	1	
	SP100-039a	Hopper Side Arm RH	1	