Marshall Multispread

Service and Technical Support

Roesner Pty Ltd Freecall : 1800 651 288
www.roesner.com.au info@roesner.com.au

840T 845T

Operators Manual

Serial No:

Vee Belt Sizes	
Location	Belt Size
PTO Drive	
Spinner Drive	

Status	Released	Author	KR
Revision	1.1	Date	12/9/13
Doc No:	800-REF-OPM-005	App by	MKR

DISCLAIMER

IMPORTANT, READ THIS BEFORE USING THE MARSHALL MULTISPREAD

The Marshall Multispread is to be used in the Agricultural and Horticultural industries to apply granulated and non-granulated fertilisers. It is very important that you follow the Calibration procedures and Operating instructions before using the Marshall Multispread. Calibration and operation of the Marshall Multispread must be in accordance with these instructions. Use of the Marshall Multispread is subject to the following disclaimer;

1. So far as is legally permissible Roesner, or its distributors, shall not be liable, whatever the cause, for any increased costs, loss of profits, business, contracts, income, or anticipated savings or for any special, indirect or inconsequential damage.
2. The capabilities and functions of the Marshall Multispread are limited as set out in the specifications in this manual.
3. Without prejudice to the above it is hereby acknowledged that the Marshall Multispread is not designed nor intended to achieve application rates and spread widths outside the parameters published in this manual.

Table of Contents

1. Overview

This Manual

This manual explains the everyday use of the machine to the operator, including Spinner Setup and Application Rate Charts.

Application

The Marshall Multispread Fertiliser Spreader will spread a wide range of granular and non-granular fertilisers, from lime, gypsum and manures through to granulated materials like superphosphate, urea and various seeds.

The machine is fitted with a Ground Driven Feed System. The feed of fertiliser from the hopper to the spinners, is driven by a C-Section Vee-Belt located behind the spreader tyre. This vee belt also acts as the feed clutch and is activated by the hydraulic cylinder, which is controlled from the tractor cab.

2. Caution - For Your Safety

READ BEFORE USING THE SPREADER

Turn off the tractor engine (and the Spreader engine if fitted) when making adjustments to the v-belts, drive sprockets and feed door or when carrying out normal maintenance.

When servicing the gearbox, final drive sprockets and drive belts ensure that the plastic guards are re-fitted to the spreader.

Do not stand or work near the spinners while they are rotating. Do not operate the spreader within 50m of stock, property or personnel. Failure to do so can result in damage and injury.

Disconnecting the machine from the tractor drawbar when the hopper is partially empty will cause the machine to overbalance and damage the spinners.

Please take notice of following information. Each of the stickers are located on your machine.

Forward speed is not to exceed 40km/h when machine unloaded and 25km/h when loaded with product. Excess speed will increase the chances of rollovers and also effect the accuracy of the spread pattern due to a slipstream effect.

It is not recommended to operate on inclines greater than 20 degrees, as the chances of rollover are greatly increased.

Do not ride on Spreader under any circumstances.

Stay well clear of the hydraulic hoses and pipes that run the spinner and feed belt systems.

The machine is fitted with safety stickers, do not remove under any circumstances.

3. Operating Instructions

3.1 Attaching To Tractor

Attach the spreader to the tractor drawbar securely using a high tensile pin, see Fig 1. The pin slips between the spreader drawbar hole and the drawbar tongue of the tractor. Plug the hydraulic lines into the tractor hydraulic remotes, ensuring that the hydraulic lines cannot be damaged when the machine is turning, see Fig 2.

On standard machines there is one set of hoses to activate the hydraulic cylinder that engages the wheel drive. There is an additional set of hoses if optional hydraulic spinner or feedbelt drives are fitted.

Ensure oil flow from tractor is minimised when activating the hydraulic cylinder. Excess oil flow and pressure will result in damage to the cylinder seals.

Fig 1

Fig 2

Fig 3

Fig 4

3.2 PTO Drive Machines

Attach the PTO shaft to the tractor as shown in Fig 3 and 4. Ensure that the female spline on the PTO shaft is firmly fitted to the tractor PTO and the locking pin is engaged.

The PTO is fitted with a safety chain, ensure the chain is fastened to the poly guard retaining lugs as shown in the photo above.

Machines are supplied with 540 or 1000 RPM PTO drives or optional dual speed PTO. The table below details the correct gearing and RPM for each drive setup.

PTO Config.	Pulley - PTO	Pulley - Side Shaft	PTO Spline Size	Spinner RPM
540 RPM	12 x 2B	7 x 2B	6 spline	900 RPM
1000 RPM	7 x 2B	7 x 2B	20 or 21 spline	900 RPM
Dual - 540 RPM	12 x 1C	8 x 1C	6, 20 or 21 spline	900 RPM
Dual - 1000 RPM	10 x 1C	10 x 1C	6, 20 or 21 spline	900 RPM

Ensure correct PTO gearing and PTO RPM before starting work.

3.3 Hydraulic Spinner Drive (Optional)

Machines that are fitted with an optional hydraulic spinner drive require an oil flow from the tractor of 45 litres/min.

To set the correct spinner speed follow this procedure:

1. Connect the two hoses to the tractor couplings - the pressure hose is the one marked IN on the spreader flow control valve.
2. Run the tractor until the oil has reached operating temperature and then increase the tractor engine to full throttle and adjust the spreader flow valve so that the spinners are running at 900RPM see Fig 5 below. (To check the spinner RPM you will need a rev counter.)
3. When the spinners are running at 900RPM with the tractor at full throttle, the tractor engine speed should be lowered to where the spinners drop below 700RPM. At this point make note of this lower tractor engine speed, as you can work from this engine speed up to full throttle without altering the spinners RPM. see Fig 5 below.

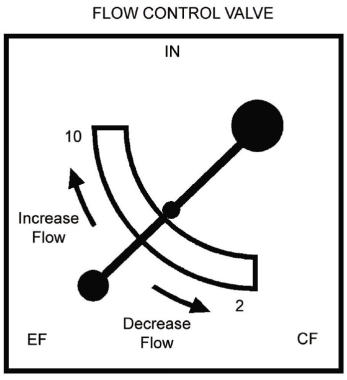


Fig 5

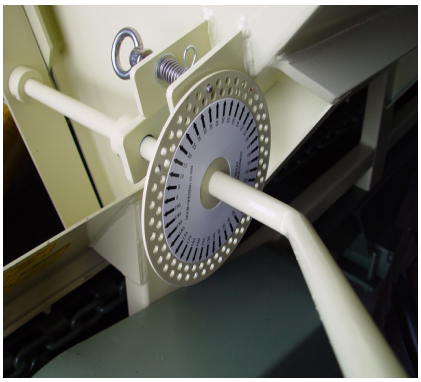


Fig 6

3.4 Application Rates

Application Rates are altered by changing the speed of the feed belt and feed door opening. The feed belt speed is altered by using different drive sprocket combinations located on the final drive. (See Section 6 of this manual)

The feed door opening is adjusted by the feed door shaft located at the rear of the machine and is held in place by the feed door adjuster disc and spring loaded pin. (See Figure 6)

Refer to the charts in Section 8 of this manual for correct drive sprocket and feed door settings for different fertiliser types.

The outer holes on the disc equate to 5mm of feed door movement. The inner set of holes are used for fine adjustment in application rate and equate to 2.5mm of feed door movement.

3.5 Width of Pass

The Width of Pass is the distance between the centres of each run or pass in the paddock. Some initial testing is required to determine the correct width of pass for a particular material being spread. You should allow for wind conditions and fertiliser consistency.

There are two different spinner vane configurations fitted to Marshall Multispread 800 Series machines. The spinner vane design determines the width and accuracy of the machines spread pattern. Refer to Section 5 of this manual for details on the vane configuration.

It is strongly advised, for granulated and non-granulated products, that a trial run or test is done to determine the best and most even width between passes, as wind conditions and product consistency may vary.

!! CHECK SPINNER VANE CONFIRGURATION BEFORE STARTING WORK !!

3.6 Starting and Stopping Work

To start work in the paddock :

1. Ensure that the spreader is at least 50m from stock, personnel and property.

2. Engage the Wheel drive Vee Belt using the hydraulic cylinder. (NB : the wheel drive should not be engaged at speed greater than 5 km/h. Engaging at faster speeds will result in damage to the spreader feed mechanism.)

3. Turn on the Spinner Drive using the PTO or Hydraulic control switches in the tractor.

4. Begin Work.

To finish work in the paddock :

1. Turn the spinners off using the PTO or Hydraulic control switches in the tractor.

2. Slow down below 5km/h

3. Disengage the Wheel drive Vee Belt using the hydraulic cylinder.

(NB : In all circumstances when the spreader is not in work ensure that the wheel drive vee-belt is disengaged.)

4. Maintenance

4.1 Bearings

The machine is fitted with sealed self aligning bearings, however due to the abrasive nature of fertilisers, grease must be applied regularly. There are a series of yellow stickers fixed to the machine that indicate the location of grease points and greasing intervals. The top and bottom spinner bearings must be greased once every four hours of operation.

4.2 Drive Chains

The Machine is fitted with a roller chain drive on the feedbelt final drive. The specifications of this chains is :

Location	Type	Qty
Final Drive	60-H Roller Chain - 3/4'' pitch	5 ft

4.3 Cleaning and Storage

After using the spreader all fertiliser should be removed from the hopper and spinner areas, then wash down the machine with a high pressure water hose.

DO NOT USE OIL OR DIESEL NEAR THE 2 PLY FEED BELT.

Always store the machine under cover and in a dry place. The 2 Ply feed belt should not be exposed to prolonged periods on sunlight.

4.4 Gearbox Maintenance

The machine is fitted with a 5:1 gearbox. The gearbox is packed with grease and sealed shut during manufacture. It does not require additional grease during its life-span.

4.5 Recommended Tyre Pressures

CHECK TYRE PRESSURE REGULARLY

The table below details recommended spreader tyre pressures. Pressures can be adjusted to suit ground conditions, the values in the table below are a guide only.

Tyre Size	Pressure (psi)	Pressure (bar)
Spreader Tyres		
900x16	36	2.4
1100x16	36	2.4
400/60-15.5	22	1.5
14.9x24	26	1.8
16.9x28	28	1.9
18.4x28	32	2.2
23.1x26	32	2.2
500/60-22.5	22	1.5
550/60-22.5	23	1.6
600/55-26.5	25	1.7
600/60-30.5	26	1.7
650/65-30.5	24	1.6
750/60-30.5	22	1.5

4.6 CC180 Spinner Drive Belt

CHECK FOR CORRECT V-BELT ALIGNMENT AND TENSION

The V-Belt should clear the left hand spinner pulley by approx 3 to 4mm (Fig 7) - adjust this by moving the side shaft pulley on the side shaft.

The tension pulley should just clear the V-Belt by about 2mm near the right hand spinner pulley (Fig 8) - adjust the angle at the tension pulley mount (Fig 9).

For the correct V-Belt tension see figure (10), once tension has been taken up there should be approximately 40mm from the top of the V-Belt to the top of the side shaft as shown. (Fig 10). To adjust tension loosen off the tension pulley shaft nut (Fig 6) then tension the adjuster (Fig 11).

Important Note: ENGAGING TRACTOR PTO DRIVE.
Before engaging the tractor PTO drive, the tractor engine should be idling at the lowest possible engine speed. Engage the PTO and then bring the tractor engine up to normal working RPM.

Important Note: 540/1000 RPM PTO GEARING
The correct spinner speed is between 700 and 900 RPM. If the machine is set up with 540 RPM PTO speed, the spinners will over-rev and the spinner V-Belt may be dislodged from the rear pulleys. see Section 3.2 of this book for more info.

Fig 6 & 7

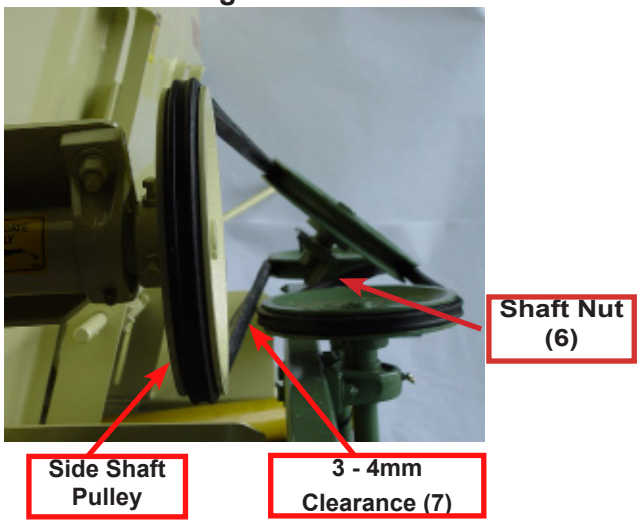


Fig 8 and 9

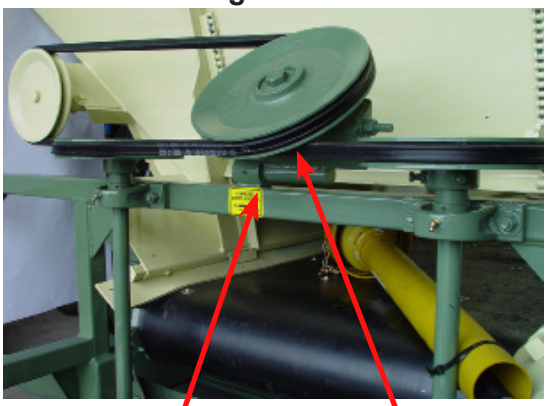


Fig 10

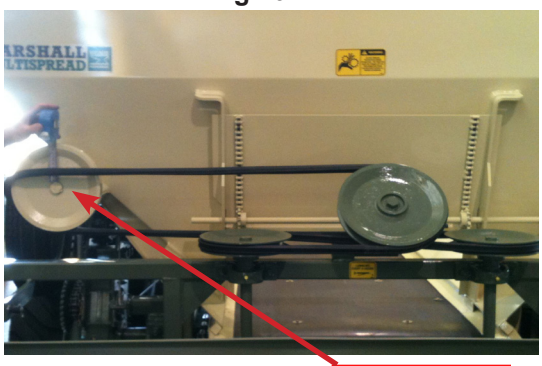
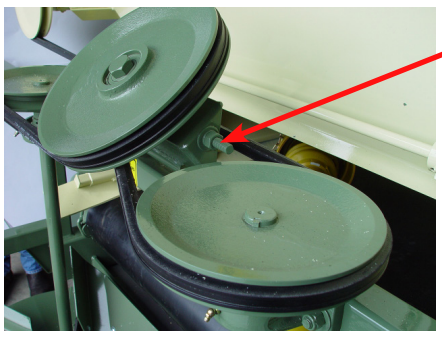


Fig 11



4.7 Feed Chain Adjustment

Fertiliser is delivered to the spinners by a feedbelt attached to a high grade chain assembly located at the bottom of the hopper. The feed chain is supported by top and bottom nylon runners. It is important that the feed chain is kept under correct tension at all times as incorrect tension will lead to premature wear and damage to mechanical components that make up the drive system.

The images below detail the correct chain tension. Fig (13) detail a cross section of the chain, the detail Fig(14) shows a close up of the bottom feed chain runner. The chain should be lifting of the front the bottom runner by 5mm at all times.

Adjust tension on the feed chain by adjusting the front bearing slide. Fig(15)

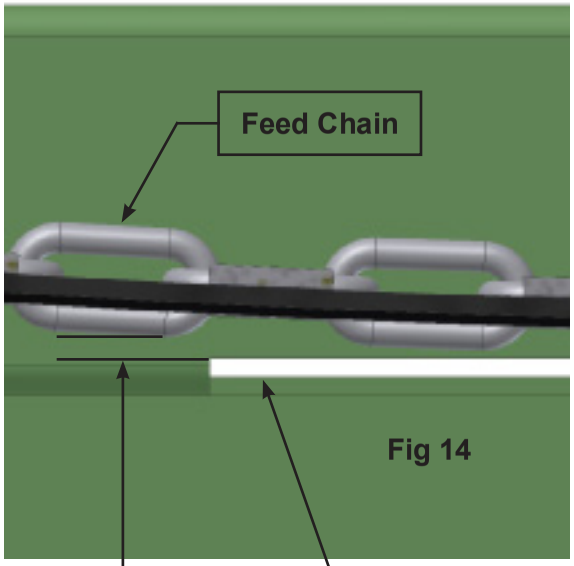


Fig 14

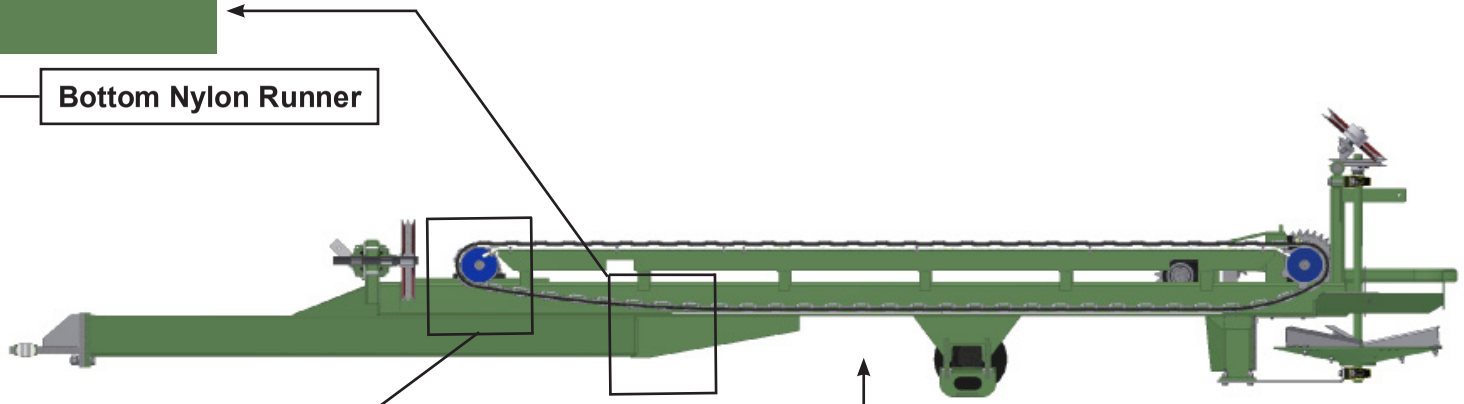


Fig 13

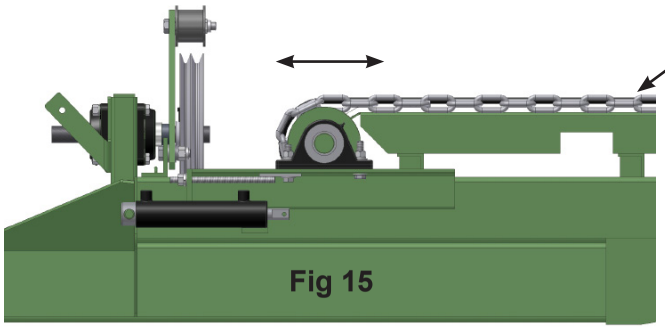


Fig 15

5. Spinner Vane Setup

5.1 Type A Vanes and Fertiliser Deflector

Older model Multispread were fitted with 6 mild steel angle spinner vanes on each spinner disc. These vanes can be used to spread granulated fertilisers up to 24 metres and non-granulated products up to 10 metres.

The spinner vanes can be adjusted to spread light applications of granulated fertilisers and seeds as well as heavy rates of non granulated materials such as lime, gypsum and manures.

Each vane is attached to the spinner disc by two bolts - an inner and an outer. The outer bolt can be varied to alter the angle of the spinner vanes. see fig 16 and 17 below.

For non granulated materials the fertiliser deflector chute should be removed to prevent clogging around the spinners.

Material	Outer Bolt Position	Fertilser Deflector Chute Fitted
Granulated Fertilisers, Grain and Seeds	**A**	**YES**
Light to Medium Applications of Non-Granulated Product - Lime/Gypsum/Manures	**A**	**NO**
Heavy Applications of Non-Granulated Product - Lime/Gypsum/Manures	**B**	**NO**

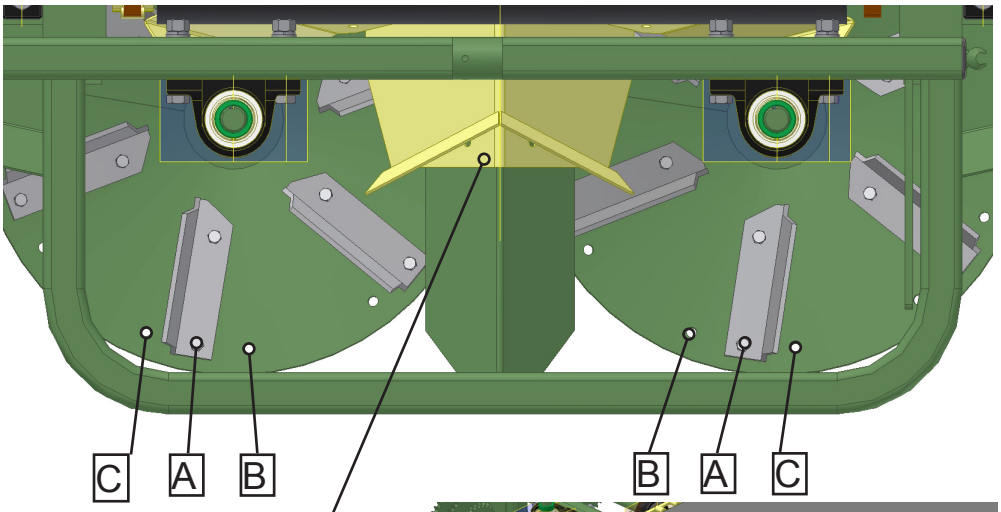


Fig 16

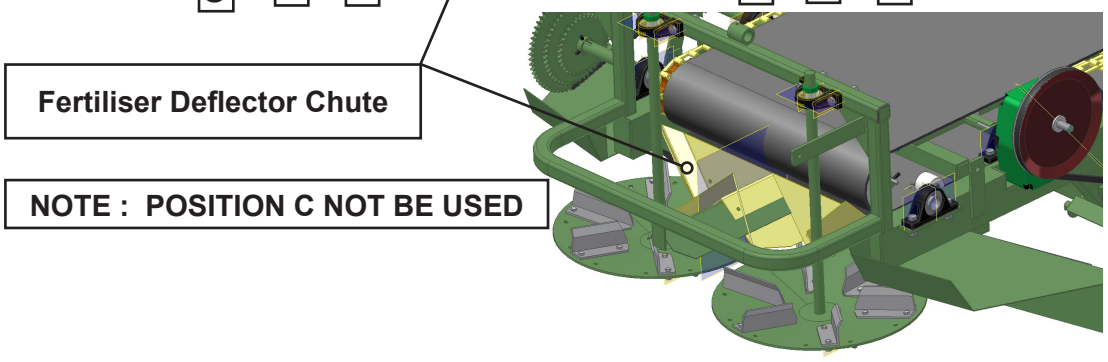


Fig 17

5.2 Type B Vanes and Fertiliser Deflector

800 Series Multispreads from 2006 production are fitted with 3 spinner vanes, pressed in a “C” channel and manufactured from 5mm Mild Steel. A simplified fertiliser deflector is also fitted.

The pressed “C” channel vanes can be used to spread granulated fertiliser up to 28 metres and non granulated products up to 14m.

The pitch or angle of each spinner vane can be altered to suit different types of fertiliser application rates. However a general setting to suit granulated fertilisers and non-granulated products is to have 3 vanes on each spinner on three different angles. This is done by setting each vane on different outer holes on the spinner disc - see Fig 18 below.

The Fertiliser Deflector should be fitted for both granulated and non-granulated products.

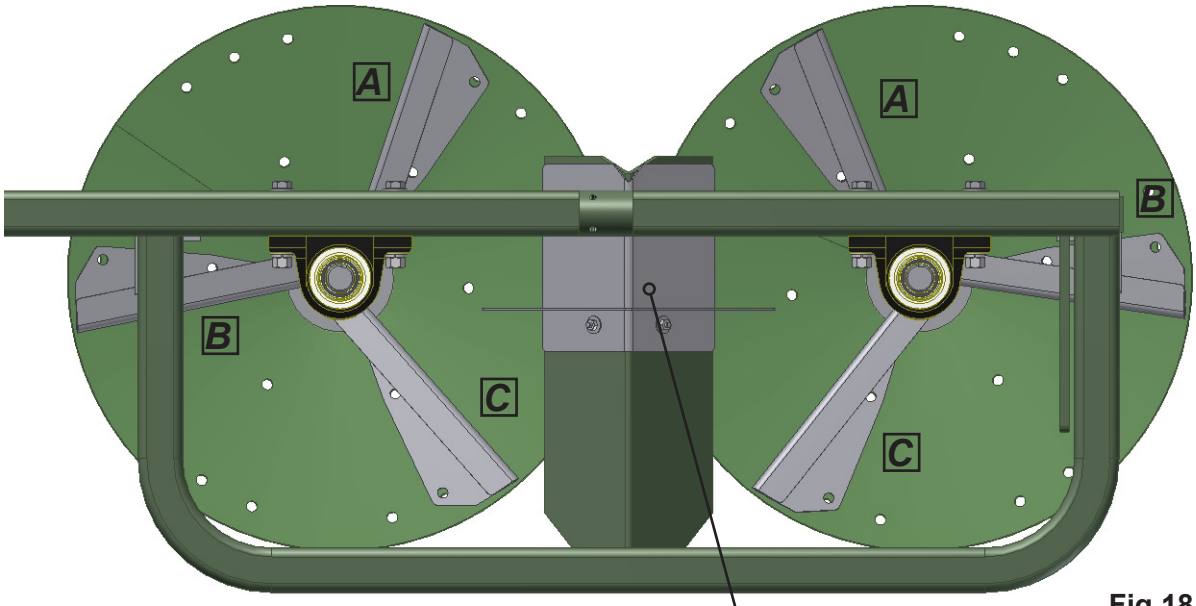


Fig 18

Vane Position	Outer Bolt Position
Position A	Centre Hole
Position B	Clockwise Hole
Position C	Counter Clockwise Hole

6. *Drive Sprocket Settings*

The machine is fitted with three sets of feedbelt drive sprockets, located on the final drive. These sprockets are used to alter the feedbelt gearing to suit the different rates and types of fertilisers. see Fig 19 below.

A common drive chain runs between the sprocket sets. Release the spring loaded jockey to move the chain position.

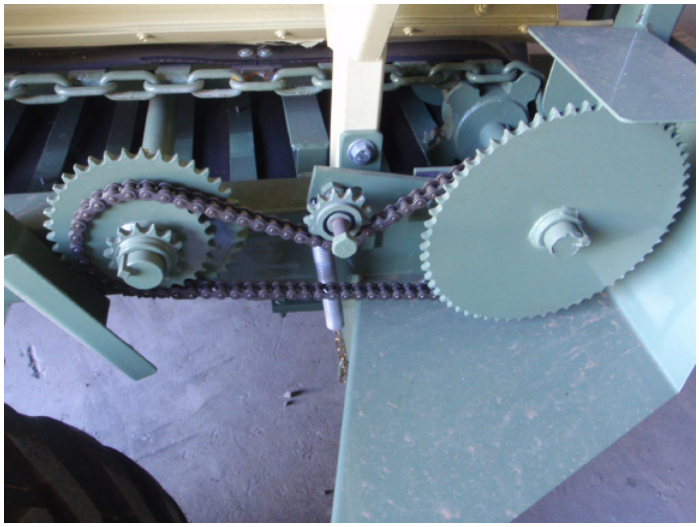


Fig 19

Possible Combinations
14 Tooth Driving 50 Tooth (Outside Set)
21 Tooth Driving 42 Tooth (Middle Set)
38 Tooth Driving 28 Tooth (Inside Set)

7. Application Rate Calculations

Application rates contained in this book are to be used as a guide only. The following can be used if you wish to check the application rate of the particular material that you are spreading.

1. Check the width of pass for the most even spread of material you will be using.
   Spreading Width Guide:
   Urea 16 - 28m
   Superphosphate 16 - 30m
   Lime and Gypsum 6 - 14m
2. Obtain the circumference of the spreader tyre.
   Circumference = diameter x 3.141
   example: tyre diameter = 0.85m
   Circumference = 0.85 x 3.141
   = 2.67m
3. Put a small quantity of the material to be spread in the hopper and ensure that the material is packed evenly around the feed door opening.
4. Rotate the spreader tyre until the material is falling evenly off the feedbelt. Note: The material must be falling evenly off the feedbelt to give an accurate reading.
5. Place a cardboard box or tarpaulin under the spinners to catch the material off the feedbelt.
6. Rotate the spreader tyre 10 times and then weigh the material caught off the feedbelt.
7. Multiply the distance travelled in the 10 turns of the wheel drive tyre by the width of pass.
   example: 2.67 x 10 = 26.70 metres.
   Width of pass = 16m
   Then multiply 16 x 26.70 = 427.2m2
8. Divide the weight of the material collected by the square metres of spread over 10 turns of the wheel drive.
9. example : 2.5kg of material divided by 427.2 = 0.0059
   0.0059 x 10000 to convert to kg/ha.
   = 59 kg/ha.

To vary spread rates make adjustments to the drive sprocket settings and the opening of the feed door.

8. Application Rate Charts

8.1 Type Of Material - Lime, Gypsum and Manure - 1000kg/m3

Due to the variation of weight per cubic metre between the different types of materials the chart below is intended as a guide only.

1. Changing the drive sprocket settings.
2. Adjusting the feed door openings.
3. Varying the width of pass. (The closer the pass the heavier the applications.)

All values are measured in kg/ha. To convert to lb/acre deduct 10% from each value.

DRIVE SPROCKET SETTINGS	DOOR OPENING (mm)	WIDTH OF PASS (M)				
		6	8	10	12	14
14 TOOTH	100	704	528	422	352	302
DRIVING	200	1407	1055	844	704	603
50 TOOTH	300	2111	1583	1267	1056	905
21 TOOTH	100	1278	959	767	639	548
DRIVING	200	2555	1916	1533	1278	1095
42 TOOTH	300	3833	2875	2300	1917	1643
38 TOOTH	100	3295	2471	1977	1648	1412
DRIVING	200	6589	4942	3953	3295	2824
28 TOOTH	300	9884	7413	5930	4942	4236

8. Application Rate Charts

8.2 Type Of Material - Granular Fertiliser - 1000kg/m3

Due to the variation of weight per cubic metre between the different types of materials the chart below is intended as a guide only.

1. Changing the drive sprocket settings.
2. Adjusting the feed door openings.
3. Varying the width of pass. (The closer the pass the heavier the applications.)

All values are measured in kg/ha. To convert to lb/acre deduct 10% from each value

DRIVE SPROCKET SETTINGS	DOOR OPENING (mm)	WIDTH OF PASS (M)					
		18	20	22	24	26	28
14 TOOTH DRIVING 50 TOOTH	20	54	49	44	41	37	35
	25	63	57	52	47	44	41
	30	79	71	65	59	55	51
	35	92	83	75	69	64	59
	40	105	95	86	79	73	68
	45	115	104	94	86	80	74
	50	128	115	105	96	89	82
	55	141	127	115	106	98	91
	60	154	139	126	116	107	99
	65	166	149	136	125	115	107
	70	179	161	146	134	124	115
	75	193	174	158	145	134	124
	80	206	185	169	155	143	132
	85	219	197	179	164	152	141
	90	232	209	190	174	161	149
	95	244	220	200	183	169	157
	100	257	231	210	193	178	165
21 TOOTH DRIVING 42 TOOTH	40	185	167	151	139	128	119
	45	208	187	170	156	144	134
	50	231	208	189	173	160	149
	55	254	229	208	191	176	163
	60	277	249	227	208	192	178
	65	300	270	245	225	208	193
	70	323	291	264	242	224	208
	75	340	306	278	255	235	219
	80	363	327	297	272	251	233
	85	385	347	315	289	267	248
	90	408	367	334	306	282	262
	95	431	388	353	323	298	277
	100	453	408	371	340	314	291
38 TOOTH DRIVING 28 TOOTH	40	498	448	407	374	345	320
	45	560	504	458	420	388	360
	50	622	560	509	467	431	400
	55	684	616	560	513	474	440
	60	746	671	610	560	516	480
	65	809	728	662	607	560	520
	70	871	784	713	653	603	560
	75	926	833	758	695	641	595
	80	988	889	808	741	684	635
	85	1049	944	858	787	726	674
	90	1111	1000	909	833	769	714
	95	1173	1056	960	880	812	754
	100	1235	1112	1010	926	855	794

8. Application Rate Charts

8.3 Type Of Material - Granular Superphosphate - 1150 kg/m3

Due to the variation of weight per cubic metre between the different types of materials the chart below is intended as a guide only.

1. Changing the drive sprocket settings.
2. Adjusting the feed door openings.
3. Varying the width of pass. (The closer the pass the heavier the applications.)

All values are measured in kg/ha. To convert to lb/acre deduct 10% from each value.

DRIVE SPROCKET SETTINGS	DOOR OPENING (mm)	WIDTH OF PASS (M)						
		18	20	22	24	26	28	30
14 TOOTH DRIVING 50 TOOTH	20	54	49	44	41	37	35	32
	25	67	60	55	50	46	43	40
	30	84	76	69	63	58	54	50
	35	98	88	80	74	68	63	59
	40	112	101	92	84	78	72	67
	45	127	114	104	95	88	82	76
	50	141	127	115	106	98	91	85
	55	155	140	127	116	107	100	93
	60	169	152	138	127	117	109	101
	65	183	165	150	137	127	118	110
	70	197	177	161	148	136	127	118
	75	195	176	160	146	135	125	117
	80	208	187	170	156	144	134	125
	85	221	199	181	166	153	142	133
	90	234	211	191	176	162	150	140
	95	247	222	202	185	171	159	148
	100	260	234	213	195	180	167	156
21 TOOTH DRIVING 42 TOOTH	40	198	178	162	149	137	127	119
	45	223	201	182	167	154	143	134
	50	248	223	203	186	172	159	149
	55	273	246	223	205	189	176	164
	60	298	268	244	224	206	192	179
	65	322	290	263	242	223	207	193
	70	347	312	284	260	240	223	208
	75	355	320	290	266	246	228	213
	80	379	341	310	284	262	244	227
	85	402	362	329	302	278	258	241
	90	426	383	349	320	295	274	256
	95	450	405	368	338	312	289	270
	100	473	426	387	355	327	304	284
38 TOOTH DRIVING 28 TOOTH	40	513	462	420	385	355	330	308
	45	577	519	472	433	399	371	346
	50	641	577	524	481	444	412	385
	55	705	635	577	529	488	453	423
	60	769	692	629	577	532	494	461
	65	833	750	682	625	577	536	500
	70	897	807	734	673	621	577	538
	75	960	864	785	720	665	617	576
	80	1024	922	838	768	709	658	614
	85	1088	979	890	816	753	699	653
	90	1152	1037	943	864	798	741	691
	95	1216	1094	995	912	842	782	730
	100	1280	1152	1047	960	886	823	768

8. Application Rate Charts

8.4 Type Of Material - Granular Urea - 750 kg/m3

Due to the variation of weight per cubic metre between the different types of materials the chart below is intended as a guide only.

1. Changing the drive sprocket settings.`
2. Adjusting the feed door openings.
3. Varying the width of pass. (The closer the pass the heavier the applications.)

All values are measured in kg/ha. To convert to lb/acre deduct 10% from each value.

DRIVE SPROCKET SETTINGS	DOOR OPENING (mm)	WIDTH OF PASS (M)					
		18	20	22	24	26	28
	15	38	34	31	29	26	24
	20	51	46	42	38	35	33
14 TOOTH	25	64	58	52	48	44	41
	30	77	69	63	58	53	50
DRIVING	35	90	81	74	68	62	58
	40	102	92	83	77	71	66
50 TOOTH	45	115	104	94	86	80	74
	50	136	122	111	102	94	87
	55	150	135	123	113	104	96
	60	163	147	133	122	113	105
	65	177	159	145	133	123	114
	70	190	171	155	143	132	122
	30	133	120	109	100	92	86
	35	155	140	127	116	107	100
21 TOOTH	40	177	159	145	133	123	114
	45	199	179	163	149	138	128
DRIVING	50	221	199	181	166	153	142
	55	243	219	199	182	168	156
42 TOOTH	60	265	239	217	199	183	170
	65	287	258	235	215	199	185
	70	309	278	253	232	214	199
	30	353	318	289	265	244	227
	35	412	371	337	309	285	265
38 TOOTH	40	470	423	385	353	325	302
	45	529	476	433	397	366	340
DRIVING	50	588	529	481	441	407	378
	55	647	582	529	485	448	416
28 TOOTH	60	706	635	578	530	489	454
	65	764	688	625	573	529	491
	70	823	741	673	617	570	529

ROESNER PTY LTD/MARSHALL MULTISPREAD
STANDARD WARRANTY

Model No_____

1. WARRANTOR

Roesner Pty Ltd – Turnbull Street, HARVEY WA 6220

Serial No._____

2. WARRANTY

Purchase Date_____

Roesner Pty Ltd undertakes to repair or replace, at its option, any new Marshall Multispread branded product which fails due to a defect in materials or workmanship during the applicable warranty period specified in Section 3 below, subject to the terms and conditions set out in this Warranty. Any repair work under this Warranty must be performed by an authorised Roesner/Marshall Multispread dealer.

3. WARRANTY PERIOD

The Warranty periods applicable to new Roesner/Marshall Multispread products are as follows :-

1. Farming Use (excluding farm contracting applications)	12 months
2. Commercial/Contract use (including use in farm contracting, forestry and industrial applications)	6 months
3. Government (where product is used by Government agencies and departments)	3 months
4. Hire and Rental (where product is hired for farm or commercial use)	3 months
5. Engines and tyres on Marshall Multispread products (e.g. Kohler/Dunlop)	As specified by the engine and tyre manufacturer.

Warranty coverage commences from the date of completion by the purchaser of the Warranty registration Card provided with all new Roesner/Marshall Multispread products or from the date of sale, whichever is the earlier.

4. WARRANTY EXCLUSIONS AND LIMITATIONS

1. This warranty applies only to new Roesner/Marshall Multispread products purchased from authorised Roesner/Marshall Multispread dealers.
2. This warranty is non-transferable and restricted to the original purchaser named on the Warranty registration Card.
3. This warranty does not apply to or in any way cover :-
   (a) Normal wear and tear;
   (b) Failure arising from the improper use of a Roesner/Marshall Multispread product;
   (c) Failure arising from use of a Roesner/Marshall Multispread product in a manner contrary to law;
   (d) Failure of, or caused by, parts or components which are not manufactured by Roesner/Marshall Multispread or supplied by a Roesner/Marshall Multispread approved supplier;
   (e) Failure arising from accident, abused, acts of God, fire, sabotage, vandalism, contaminated fluids or neglect or failure to operate, store and/or maintain a Roesner/ Marshall Multispread product in accordance with instructions provided in the owner's manual supplied with a Roesner/Marshall Multispread product;
   (f) Parts or service required for the normal and regular maintenance of a Roesner/Marshall Multispread product e.g. lubricants, engine tune ups etc;
   (g) Normal adjustments which are explained in the owner's manual supplied with a Roesner/Marshall Multispread product;
   (h) Repairs made necessary due to a Roesner/Marshall Multispread product coming into contact with or being exposed to dirt, abrasives, moisture, rust, corrosion or other similar conditions.
   (i) Failure arising from any negligent act or omission of any person other than Roesner/Marshall Multispread or any of its employees; or
   (j) Failure arising from any unauthorised assembly, repair or modification of a Roesner/Marshall Multispread product by any person;

Delivery Address:
PO Box 185
HARVEY WA 6220

Roesner Pty Limited
Reply Paid185
HARVEY WA 6220

5. PURCHASER'S OBLIGATION

In order to obtain the benefit of this warranty, the purchaser must comply with the following provisions :-

1. The purchaser must complete and return the Warranty registration Card provided within 14 days to the address specified on the Reply Paid card.
2. If there occurs a failure of a Roesner/Marshall Multispread product to which this warranty applies or may apply, the purchaser must :-
   (a) As its sole expense, deliver that Roesner/Marshall Multispread product to the authorised Roesner/Marshall Multispread dealer from which it was purchased or to any other authorised Roesner/Marshall Multispread dealer;
   (b) Produce to the authorised Roesner/Marshall Multispread dealer the purchaser's copy of the Warranty Registration Card relating to the Roesner/Marshall Multispread product; and
   (c) If that Roesner/Marshall Multispread product is sent to an authorised Roesner/Marshall Multispread dealer other than the Roesner/Marshall Multispread dealer from which it was purchased, provide to the authorised Roesner/Marshall Multispread dealer proof of the purchaser's ownership of that Roesner/Marshall Multispread product and of the date of purchase.

6. ROESNER'S/MARSHALL MULTISPREAD OBLIGATIONS

If a claim made under this warranty is accepted, Roesner/Marshall Multispread will meet its obligations under section 2 above free of charge to the purchaser. Repairs will be scheduled and performed in accordance with the normal work flow of the authorised Roesner/Marshall Multispread dealer to which the Roesner/Marshall Multispread product is delivered. The timing of any repair may depend upon the availability of replacement parts and components.

7. LIMITATION ON ROESNER'S/MARSHALL MULTISPREAD OBLIGATIONS

1. Except to the extent that Roesner/Marshall Multispread may not lawfully exclude liability, Roesner/Marshall Multispread will not be liable to any purchaser (or any other person or corporation) for any loss or damage (including consequential, exemplary, punitive or incidental loss or damage) however caused including negligence, which may be suffered or incurred or which may arise directly or indirectly from or in connection with any Roesner/Marshall Multispread product and/or any failure of or fault in any Roesner/Marshall Multispread product.
2. Except as expressly set out in this warranty, all terms, conditions, warranties, undertakings, inducements or representations whether express, implied, statutory or otherwise, relating to Roesner/Marshall Multispread products are, to the maximum extent permitted by law, excluded.
3. If any act, whether State or Commonwealth or otherwise, implies into this warranty or any other agreement between Roesner/Marshall Multispread and a purchaser relating to a Roesner/Marshall Multispread product any term, condition or warranty and that acts avoids or prohibits provisions excluding or modifying the application or exercise of or liability under that term, condition or warranty, that term, condition or warranty shall be deemed to be included in this warranty. However, the liability of Roesner/Marshall Multispread for any breach of that term, condition or warranty (other than a warranty implied by Section 69 of the Trade Practices Act or any corresponding provision of any Act of a State or Territory) is limited at the option of Roesner/Marshall Multispread, to any one or more of the following :-
   (a) If the breach related to goods then :-
      (i) the replacement of the goods or the supply of equivalent goods;
      (ii) the repair of goods;
      (iii) the payment of the cost of replacing the goods or of acquiring equivalent goods; or
      (iv) the payment of the cost of having the goods repaired; and
   (b) If the breach relates to services :-
      (i) the supplying of the services again; or
      (ii) the payment of the cost of having the services supplied again.

8. ROESNER'S/MARSHALL MULTISPREAD RIGHT OF DETERMINATION

Roesner/Marshall Multispread alone has the exclusive right to determine whether or not this warranty extends to a claim made by a purchaser.

CLIENT TO RETAIN ABOVE SECTION

Please return this within 14 days of purchase to register your warranty. Please print clearly.

1. BUYER DETAILS

Name:_____

_____

Address:_____

_____

State:_____ Postcode: _____

_____

Sign here to acknowledge receipt of Warranty Form and Operators Manual

2. SELLING DEALER DETAILS

Trading Name:_____

_____

Address:_____

_____

State:_____ Postcode:_____

3. PRODUCT DETAILS

Model:_____

Serial Number:_____

Date of Purchase:_____

Main Use: ☐ please mark with cross

- ☐ Farming
- ☐ Commercial/Contract
- ☐ Hire & Rental
- ☐ Government

Warranty Claim Form

Dealers Name : _____

Client Name : _____ Date : _____

Model No : _____ Serial No : _____

Description of Warranty Claim :

Parts required from Roesner Pty Ltd :

Estimated additional costs (travel, labour etc.)

Signed : _____

Name : _____

Phone : _____

PLEASE FAX COMPLETED FORM TO (08) 9729 2256
OR MAIL TO : PO BOX 185, HARVEY, WA, 6220

Status	Released	Author	TZ
Revision	1.0	Date	30/03/2010
Pages	1	App By	MKR