

M U L T I S P R E A D H A N D B O O K

For Models
BT6 and BT8 from Serial #551

The Marshall BT6 and BT8 Multispreads will spread all types of granulated fertilizer as well as Lime, Gypsum, Cow and Fowl Manures.

GROUND DRIVE FEED SYSTEM

Feed of fertilizer etc., from the hopper to the spinner is driven by a vee belt which runs on the inside of the wheel hub. The jockey pulley which runs on the top side of the vee belt is used as the feed clutch. When towing the spreader at highway speeds remove the vee belt from the pulleys. NOTE: DO NOT REVERSE THE MACHINE WHILE THE VEE BELT IS ENGAGED.

APPLICATION RATES

Application rates are altered by a combination of feed belt speed, which is controlled by the change sprockets on the left and right side of the machine and the hopper feed door opening. Spreading rate charts for fertilizers are included in this hand book. When spreading Lime, Gypsum, Cow and Fowl Manures some initial testing and adjustment will be necessary as the materials vary in consistency and the weight per cubic metre depending on moisture content.

SPINNER SPEED

The recommended spinner speed for spreading all types of material is 700 to 900 RPM.

PTO SPINNER DRIVE

Machines are geared to operate on a tractor with 540 RPM PTO (1000 RPM is optional).

MAINTENANCE

GREASING BEARINGS

The machine is fitted with sealed self aligning bearings, however, due to the abrasive qualities of fertilizer etc., grease must be applied at least once daily in order to force out any particles of dust. Take care not to fracture the bearing seals by forcing in too much grease at a time.

FEED BELT CHAINS

The feed belt roller chains should be kept well lubricated at all times, particularly before the machine is stored for any length of time. For best results use RENOLD CHAIN LUBRICANT.

VEE BELTS

Check for wear and tension.

WHEEL BEARINGS

Check regularly.

WHEEL NUTS

Check tension before using the machine and at regular intervals.

CLEANING AND STORAGE

After using the spreader all fertilizer etc., should be removed from the hopper and spinner areas - then wash down with water (high pressure if available), DO NOT USE OIL OR DIESEL. Store the machine under cover and in a dry place - do not allow direct sunlight on the feed belt.

HYDRAULIC SPINNER DRIVE

Machines require an oil flow from the tractor of at least 8 gpm (35 litres/min). To set the correct spinner follow this procedure.

Connect the two hoses to the tractor couplings - the pressure hose is the one marked IN on the flow valve on the spreader. Run the tractor until the oil has reached operating temperature. Then run the tractor engine at full throttle and adjust the flow valve on the spreader so that the spinner is running at 800 RPM - to check the spinner RPM you will need a hand held rev counter. Once the spinner is running at 800 RPM with the tractor at full throttle the tractor engine speed should be lowered to where the spinner drops below 700 RPM - at this point make a note of the tractor engine speed as you can work from this engine speed up to full throttle without altering the spinner RPM.

* * * * * C A U T I O N * * * * *

TURN OFF TRACTOR ENGINE (OR SPREADER ENGINE IF FITTED), WHEN MAKING ANY ADJUSTMENTS TO THE V-BELTS AND SPROCKETS ON THE MACHINE OR WHEN CARRYING OUT NORMAL MAINTENANCE. REPLACE ALL SAFETY GUARDS AFTER MAKING ADJUSTMENTS.

DO NOT STAND OR WORK NEAR THE SPINNERS WHILE ROTATING. DO NOT OPERATE THE SPREADER WHERE IT CAN CAUSE DAMAGE TO PROPERTY OR INJURY TO BYSTANDERS.

B T 6 A N D B T 8 M U L T I S P R E A D

SUPERPHOSPHATE RATES: Kilograms per Hectare *

* The Width of Pass is the distance between passes when working in the paddock. Some initial testing will be required to determine the correct width of pass for the particular fertilizer being used.

Sprocket Position (See attached drawing on sprocket positions)	Feed Door Opening	WIDTH OF PASS*		
		(allow for wind conditions and fertilizer consistency)		
		16 Metre 52 Foot	18 Metre 59 Foot	20 Metre 66 Foot
Side A 17 tooth to 76 tooth	10 mm	25	20	17
	15 mm	35	30	25
	20 mm	40	35	25
	25 mm	45	40	35
	30 mm	55	50	40
	35 mm	60	55	50
	40 mm	65	60	55
	45 mm	75	65	60
	50 mm	80	75	65
	55 mm	90	85	75
Side B 17 tooth to 42 tooth	60 mm	100	90	80
	65 mm	110	95	90
	70 mm	120	105	95

...Continued

B T 6 A N D B T 8 M U L T I S P R E A D

SUPERPHOSPHATE RATES (Continued)...

Side A	25 mm	95	85	75
17 tooth	30 mm	125	111	100
to	35 mm	160	140	130
76 tooth	40 mm	170	150	140
	45 mm	180	165	145
	50 mm	200	180	160
Side B	55 mm	215	190	167
28 tooth	60 mm	230	205	185
to	65 mm	255	225	205
30 tooth	70 mm	280	250	225
Side A	35 mm	270	250	220
42 tooth	40 mm	310	280	250
to	45 mm	350	310	280
50 tooth	50 mm	380	340	300
	55 mm	420	380	340
	60 mm	460	410	370
	65 mm	500	440	400
	70 mm	540	480	430
	75 mm	580	510	460
	80 mm	620	550	490
Side B	85 mm	650	580	520
17 tooth	90 mm	690	610	550
to	95 mm	730	650	580
42 tooth	100 mm	770	680	610

* to convert to lbs/acre deduct 10%

B T 6 A N D B T 8 M U L T I S P R E A D

UREA RATES: Kilogram per Hectare

Sprocket Position (See attached drawing on sprocket positions)	Feed Door Opening	WIDTH OF PASS (allow for wind conditions and fertilizer consistency)			
		10 metre	12 metre	14 metre	15 metre
		33 foot	39 foot	46 foot	49 foot
Side A 17 tooth to 76 tooth	10 mm	25	20	18	15
	15 mm	35	30	25	20
	20 mm	40	35	30	25
	25 mm	45	40	35	30
	30 mm	55	45	40	35
	35 mm	65	55	45	45
	40 mm	70	60	50	50
	45 mm	80	65	60	55
	50 mm	90	75	65	60
	55 mm	100	85	70	65
Side B 17 tooth to 42 tooth	60 mm	105	90	75	70
	25 mm	105	90	80	70
	30 mm	125	105	90	80
	35 mm	150	125	105	105
	40 mm	160	140	115	115
Side B. 28 tooth to 30 tooth	45 mm	185	150	140	125
	50 mm	210	170	150	140
	55 mm	230	195	160	150
	60 mm	240	210	170	160
	65 mm	260	225	185	175
	70 mm	280	245	200	190

B T 6 A N D B T 8 M U L T I S P R E A D

A GUIDE TO SPREADING RATES FOR LIME, GYPSUM AND MANURES

Due to the great variation of weight per cubic metre, as well as moisture content, the chart below is intended as a guide only.

Rate adjustments are made by the following...

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

SPROCKET POSITIONS	FEED DOOR OPENING	KILOGRAMS PER HECTARE	WIDTH OF PASS
<u>Side A</u> 17 tooth to 76 tooth <u>Side B</u> 17 tooth to 42 tooth	50mm to 100mm	100 to 1000	4 metres to 9 metres
<u>Side A</u> 17 tooth to 76 tooth <u>Side B</u> 28 tooth to 30 tooth	100mm to 200mm	400 to 2000	4 metres to 9 metres

Continued....

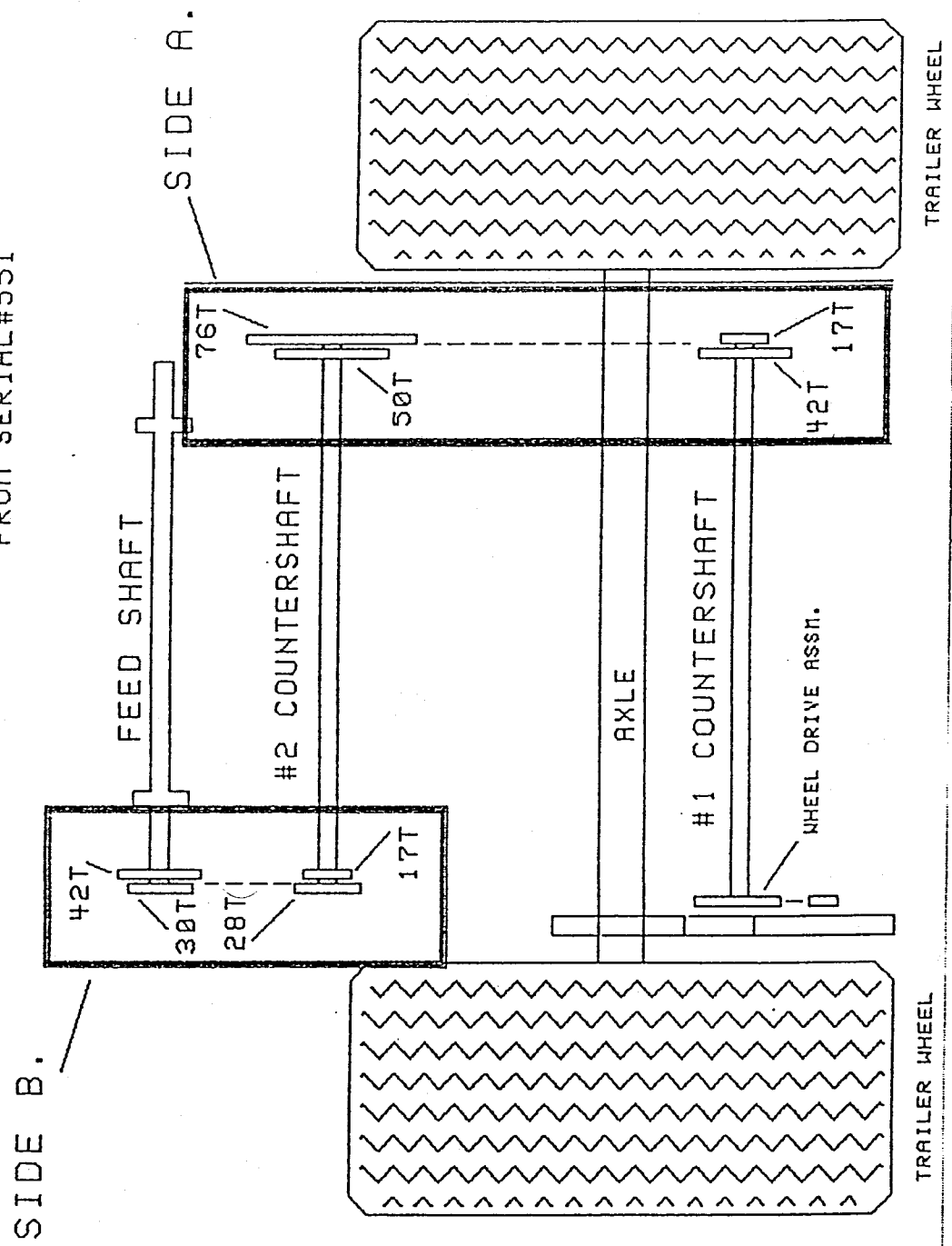
B T 6 A N D B T 8 M U L T I S P R E A D

Lime, Gypsum and Manures Rates Chart (cont'd).

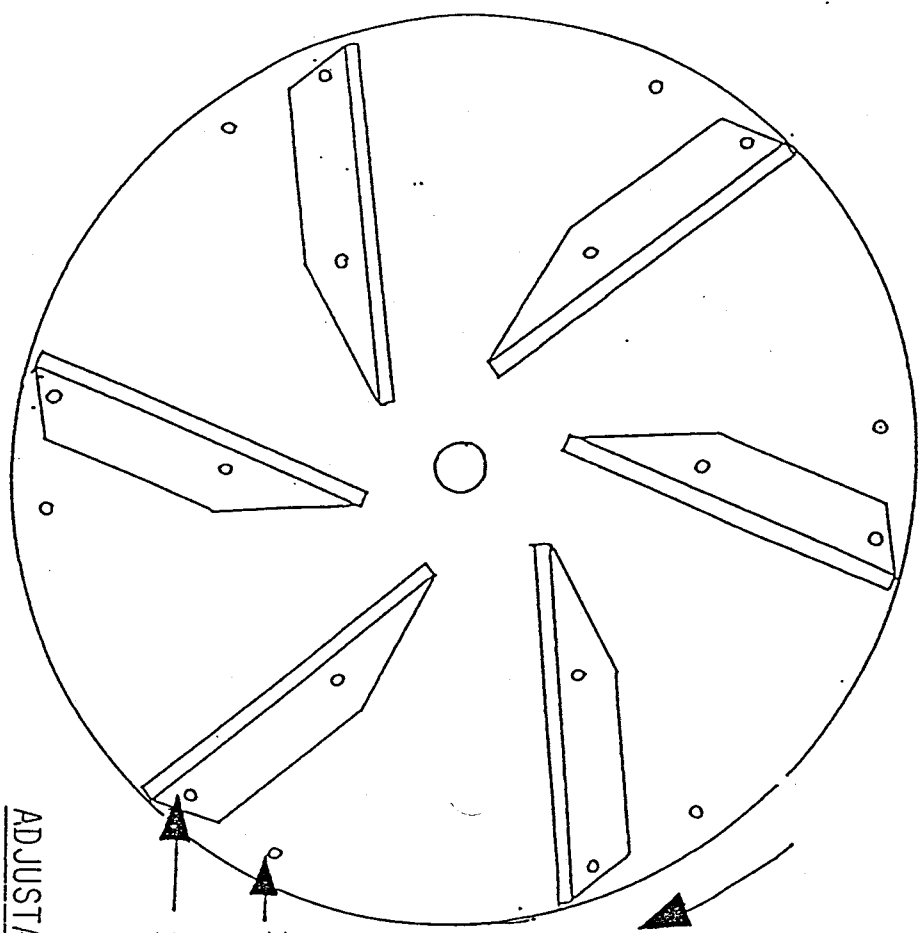
<p><u>Side A</u> 42 tooth to 50 tooth</p> <p><u>Side B</u> 17 tooth to 42 tooth</p>	<p>100mm to 200mm</p>	<p>800 to 3500</p>	<p>4 metres to 9 metres</p>
<p><u>Side A</u> 42 tooth to 50 tooth</p> <p><u>Side B</u> 28 tooth to 30 tooth</p>	<p>100mm to 200mm</p>	<p>2000 to 8000</p>	<p>4 metres to 9 metres</p>

BT6/8 DRIVE SPROCKET POSITIONS

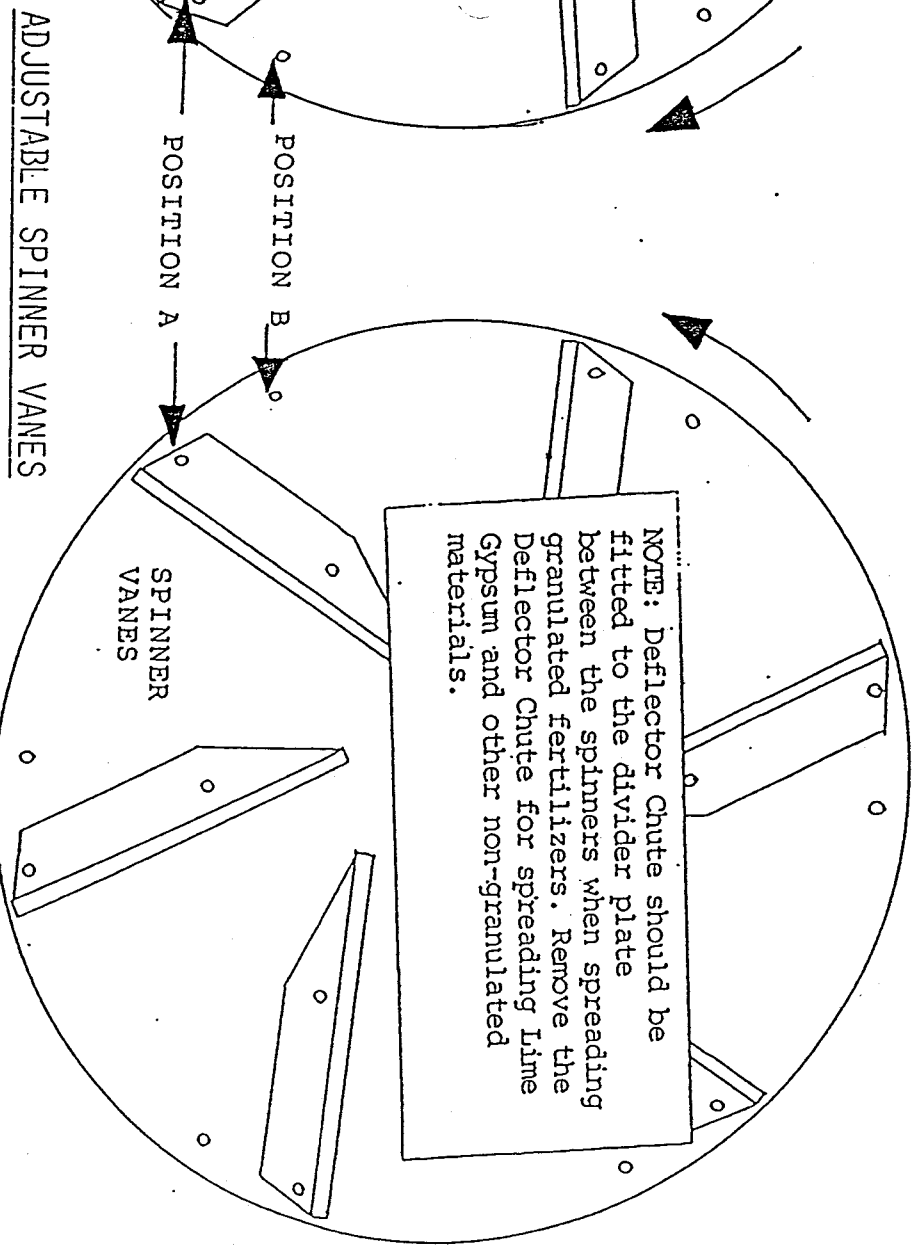
FROM SERIAL#551



LEFT HAND SPINNER



RIGHT HAND SPINNER



This machine is equipped with adjustable spinner vanes - they can be set for spreading non-granulated materials such as Lime and Gypsum or adjusted to spread granulated fertilizers like superphosphate.

Each spinner vane is attached to the disc by two bolts - and inner and outer. The outer bolts have two positions on the disc - position "A" and position "B".

POSITION A: For spreading all granulated fertilizers, seeds and grains, very light applications of dry lime and gypsum.

POSITION B: For spreading normal applications of lime, gypsum, manure and other non-granulated materials.