

DAVIMAC

MANUFACTURING QUALITY PRODUCTS

MAXIDISC OPERATOR'S MANUAL

Serial number-_____



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INTRODUCTION

Davimac thanks you for purchasing one of our products.

It is the responsibility of the user to understand the operation, safety, maintenance and lubrication before operating the Maxiseeder. It is the users responsibility to check and service the machine as specified in the Manual.

WARRANTY

Davimac Pty Ltd warrants against defects in materials or workmanship for 1 year. We reserve the right to inspect and decide whether material or workmanship was the faulty or whether abuse or accident voids our warranty.

Warranty service must be undertaken by a dealer or service center approved by Davimac Engineering. Warranty service will be performed without charge to the purchaser if warranty claim is valid. If the original purchaser sell or transfers this product to a third party the warranty does not transfer to the third party in any way.

The manufacturer reserves the right to make product design changes at any time without notice. They shall not be obligated or liable for the replacement of previously sold products .

Davimac Pty Ltd reserves the right tp make changes or add improvements at any time without notice or obligation.

Limitation of Liability

In no event shall the owner be entitled to recovers for incidental, special or consequential damages such as, but not limited to, loss of crops, loss of profit or revenue, other commercial losers, inconvenience or cost of rental or replacement.

SAFETY

Safety is the responsibility of the operator and is measured by how you operate and service the machine. Know how the machine functions and what the controls do, before trying to operate this machine.

Below are some safety points, we have tried to cover all safety issues but the operator should do a safety evaluation of the machine before operating this machine.

- ! Never permit any persons other than the operator to ride on the tractor.**
- ! Never ride on the planter or allow others to ride on the planter.**
- ! Do not allow anyone to stand between the hitch and towing vehicle when backing up to the planter**
- ! Never work under planter unless disc units are on the ground, planter is on a level site, the tractor is stopped and tractor is in par or brake is on**
- ! Never allow anyone within the immediate area when working**
- ! Don't operate or do maintenance on the planter unless you are trained to do so**
- ! Before doing any maintenance do a safety evaluation**
- ! Don't service Hydraulic system while under pressure**

MAINTENANCE

RUN IN SERVICE 10 HOUR

- Check all bolts and hardware
- Check wheel nuts
- Check drive chains are tensioned
- Check sprocket screws are tight

EVERY 2nd DAY OR 20 HOURS

- Grease bearings on drive 5 bearings (5m and 6m machines 7 bearings)
- Check all chains are tensioned

ANNUALLY OR EVERY 200 HOURS

- Grease press wheels (2 pumps)
- Grease shear clutches (2 pumps)
- Check seed boot for wear and height. It should approximately be 20 mm off the ground if the disc is on concrete (can be set lower if sowing at shallow depths)
- Check gauge wheel is just touching the disc (if its not touching remove gauge wheel pivot bolt and change one of the spacer washer to the other side)
- Check all bearings on the disc unit, if they have side ways movement remove hub cap and tighten hub nut or the bearings may need replacing.
- Check all bolts and hardware
- Check pivot bushes on the disc unit, main disc pivot bushes, press wheel pivot bushes press wheel spring pivot and hydraulic ram pivots

CLEANING OF THE PLANTER AND STORAGE

The seed and fertilizer boxes should be thoroughly cleaned and the last little bit blown through the feed rollers with an air compressor.

! Never wash the box out with water

The planter should be shedded when not in use

OPERATION

TRACTOR REQUIREMENTS

Check that your tractor is compatible and has sufficient power to suit the planter

HOOKUP

When hooking the planter to the towing tractor the operator has the responsibility of safety for other persons in the area. Persons should not stand between the tractor and planter.

TRANSPORT AND SOWING SPEEDS

- ! When transporting check that the safety chain is attached
- ! Never exceed 30 km/h in transport
- ! When transporting on public roads check that you comply with all road rules

Sowing speeds can be up to 15 km in clean smooth paddocks. In rock, undulating or hilly country sowing speeds will have to be at a slower speed to prevent damage or premature wear

LEVELING

The planter can be leveled by adjusting the hitch pull

DISC OPENERS

Depth settings

The sowing depth is set by adjusting the gauge wheel height. Each hole is approximately 10 mm (3/8")

Opener down pressure

Opener down pressure is adjusted by turning the pressure adjustment valve.

To set pressure-

- 1 Push hydraulic lever forward and lock it there
- 2 Turn pressure adjustment valve until the pressure you require is on the pressure gauge
 - ! Never exceed 900 psi
 - ! The maximum pressure the you can set your machine at will depend on how many rows and how much your machine weighs
 - ! If the back wheels of the planter lift off the ground reduce the down pressure. (If the back wheels aren't touching the ground the planter won't distribute the seed/fertilizer)

Too little down pressure will result in poor penetration, too much down pressure will cause the openers to bulldoze in soft soil or cause increased wear.

Weights can be added to increase down pressure

OPERATION

Press wheel down pressure

Press wheel pressure can be adjusted by changing the hole the spring rod end bolts in to (top hole most pressure, bottom hole least pressure)

CALIBRATION

This seed drill is fitted with a shear pin on both the seed and fertilizer drive on the box to protect the gear boxes. If it is sheared replace with approved pin only!!

We have supplied a calibration charts but it is only a guide as grain and fertilizer size and weight can vary.

CALIBRATION OF SEED BOX

Ensure you have accurate weighing scales.

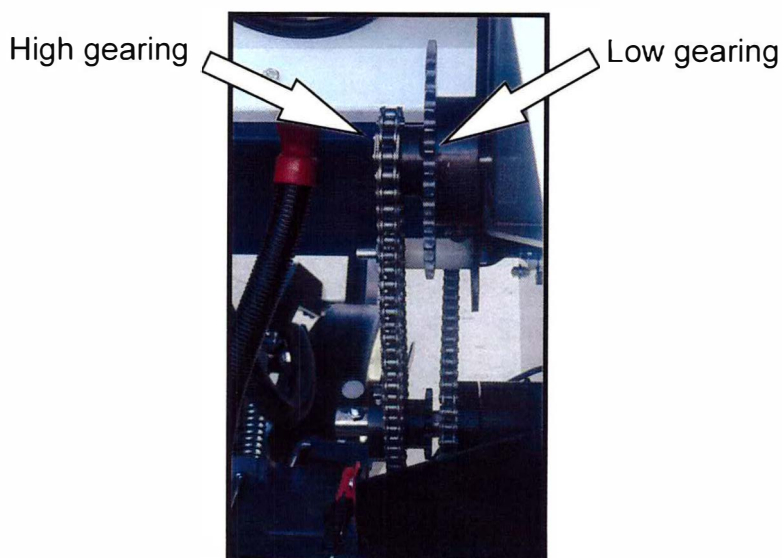
Seed box is not designed to sow seed larger than wheat or oat, larger seed can be sown in the fertilizer box. Fertilizer can not be sown in the seed box.

To calibrate:

Disconnect power that goes to the clutch at the front of the hitch

- 1 Cover 2 rows in the seed box (front box) with enough grain to cover the feed rollers.
- 2 Place ice cream containers under the down tubes that have the grain covering them.
- 3 Turn the calibration handle in a anti clock wise direction for _____ turns.
- 4 Weigh the grain and times that amount by _____ to give you kg/Ha.
- 5 If calibration is wrong make adjustments and redo steps 1 to 4

You can change the gearing by changing the chain that goes from the box to the gear box to give you a lower or higher rate.



CALIBRATION OF FERTILIZER BOX

To calibrate:

Disconnect power that goes to the clutch at the front of the hitch

- 1 Cover 2 rows in the seed box (back box) with enough fertilizer to cover the feed rollers
- 2 Place ice cream containers under the down tubes that have the fertilizer covering them.
- 3 Turn the calibration handle in a anti clock wise direction for _____ turns
- 4 Weigh the grain and times that amount by _____ to give you kg/Ha.
- 5 If calibration is wrong make adjustments and redo steps 1 to 4

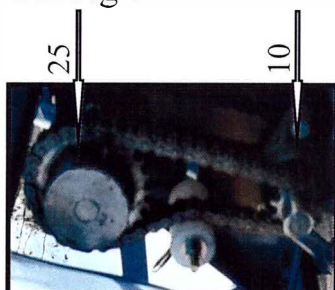
CALAIBRATION OF SMALL SEED BOX (if fitted)

To calibrate:

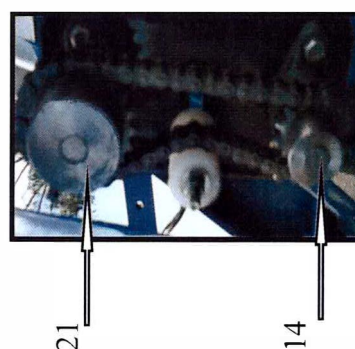
- 1 Cover all the rows in all the seed box with enough grain to cover the feed rollers.
- 2 Place guttering under all the tubes.
- 3 Make sure the clutch is engaged.
- 4 Turn the idler wheel (the wheel that runs on top of the ground wheel) in a clock wise direction for _____ turns.
- 5 Weigh the grain and times that amount by 40 to give you kg/Ha.
- 6 If calibration is wrong make adjustments and redo steps 1 to 5

If you are unable to get the seeding rate high or low enough you are able to change the sprockets on the gear box. It is recommend that the feed rollers be closed no more than 2.

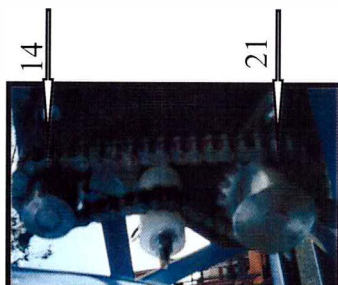
Setting 1



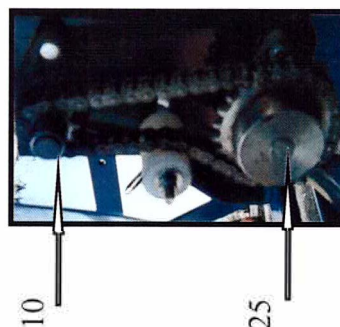
Setting 2



Setting 3



Setting 4



Setting 1 is the slowest (less seed per hectare)
Setting 4 is the fastest (more seed per hectare)

SMALL SEED CALIBRATION CHARTS

Charts are in kg per ha

	Gear 1				
	2	4	6	8	9
Red clover					
Lucerne					
Sub clover					
Canola					
Phalaris					
Ryegrass					

	Gear 2				
	2	4	6	8	9
Red clover					
Lucerne					
Sub clover					
Canola					
Phalaris					
Ryegrass					

	Gear 3				
	2	4	6	8	9
Red clover					
Lucerne					
Sub clover					
Canola					
Phalaris					
Ryegrass					

	Gear 4				
	2	4	6	8	9
Red clover					
Lucerne					
Sub clover					
Canola					
Phalaris					
Ryegrass					

Parts

Disc unit part

Main pivot bushes-	40 mm Teflon lined spherical bush
Press wheel pivot bushes-	30 mm Teflon lined spherical bush
Press wheel spring ball joint-	20 mm Teflon lined spherical rod end
Press wheel spring shaft-	300 mm long
Press wheel-	375 mm diameter
Press wheel bearing kit-	inc- bearings, cones, seals and locking washer
Press wheel arm-	LH or RH
Disc-	455 mm diameter 6.4 mm thick, HT stud pat
Disc stub and hub-	LH or RH
Disc bearing kit-	inc- bearings, cones, seals and locking washer
Seed boot-	LH or RH
Seed boot spring-	60 mm long 28 mm OD 3 mm wire
Gauge wheel-	400 mm diameter with HT stud pat
Gauge wheel stub and hub-	LH or RH
Gauge wheel bearing kit-	inc- bearings, cones, seals and locking washer
Ram-	1.5" with 4" stroke with 19 mm pins
Ram pivot bushes-	DU bush 7/8 OD, 3/4 ID, 3/4 Long