

UNIDRILL INIDRILL INIDRI

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Thank you for purchasing a MOORE UNIDRILL and for showing confidence in our product.

For effective use, and to benefit from all the features of our drill, we recommend that you read this document very carefully.

From your experience, please do not hesitate to inform us of your comments and suggestions, which will always be useful to us in improving our products.

We wish you success with your drill.

Assuring you of our best attention at all times.

Sam Moore Managing Director



33 Kirk Road, Ballymoney, Co.Antrim, N.Ireland Tel: Ballymoney (012656 64444) Fax: (012656 65696)



CE DECLARATION OF CONFORMITY

We MOORE UNI-DRILL LIMITED.

of 33 Kirk Road, Ballymoney, Co.Antrim, N.Ireland. BT53 6PP

Declare that

MODEL	
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SERIAL No

DATE

Conforms to the essential safety requirements of EEC Directive 89/392, as amended by 91/368, 93/44 and CE Marking Directive 93/68

SAM MOORE DIRECTOR

SAFETY INFORMATION





Danger of personal injury

Danger of damage to machine

Helpful Hints

These symbols are used in this document each time there are recommendations concerning your or others safety, or the efficient performance of the machine.

It is imperative that each user of the machine should be familiarised with these recommendations.

The Uni-Drill must not be used for any purposes other than for which it was designed.

No responsibility will be accepted in the case of damage caused to the machine outside the range of applications specified by the manufacturers.

Recommended usage also implies:

Respecting the instructions for use, service and maintenance recommended by the manufacturer. Exclusive use of spare parts and original accessories recommended by the manufacturer.

The drill should be used, serviced and repaired by competent persons who are familiar with the characteristics, and operation of the machine. They must also be aware of the dangers to which they could be exposed.

The user is obliged to pay scrupulous attention to the current regulations relating to :

Accident prevention Work safety (Health & Safety Regulations) Road Safety (Highway Code)

You are advised to strictly observe the warnings attached to the machine.

Any modification of the machine carried out by the Owner/User or any other person, without the previous written agreement of the manufacturer will absolve the latter from any responsibility for any damage which could occur.

GENERAL SAFETY RULES

Before using, and putting into service the tractor and drill unit, check that it conforms with work safety regulations and also with the Highway Code.

GENERAL GUIDELINES

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- 1. In addition to the directions outlined in this document, abide by the legislation relating to safety and accident prevention.
- 2. The warnings affixed to the machine provide an indication of the safety measures to be observed and will help to prevent accidents.
- 3. When on a public road, observe the Highway Code.

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- 4. Before starting work, the user is obliged to familiarise himself with the controls and the steering of the machine, and with their respective functions. It will be too late to do this when the work is already underway.
- 5. The user should avoid wearing loose clothing which could become caught on moving parts.
- 6. It is recommended that the tractor used has a 'safety cab'.
- 7. Before starting up the machine and commencing work, check the immediate surroundings (for children!). Make sure you have adequate visibility. Remove all persons or animals from the danger zone near the machine (in case of flying debris).
- 8. While in use or being moved, it is strictly forbidden to transport people or animals on the machine.
- 9. The machine should only be connected to the tractor using the hitching position provided, which conforms to current safety standards.
- 10. Care should be taken when hitching the machine to the tractor, and when removing it!
- 11. Before attaching the machine, ensure that the balancing of the tractor's front axle is adequate. The positioning of the ballasts must be done on the purpose built supports conforming to the tractor manufacturer's instructions.
- 12. Do not overload the axle
- 13. Abide by the authorised max. size for travelling on public roads.
- 14. Before going on a public road, check that the signal devices and guards (luminous, reflective) required by law, are in place and in working order.
- 15. All remote controls (cords, cable, rod, hose) should be positioned in such a way that they cannot accidentally set off an operation that could cause an accident or some damage.
- 16. Before taking the machine on the public road place the machine in the transport position as indicated by the manufacturer.
- 17. Never leave the driver's position while the tractor is in motion.

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- 18. The speed and the method of driving must always be adapted to the relevant surface. In all circumstances avoid sudden changes of direction.
- 19. Direction precision, grip of the tractor, road holding and the efficiency of the braking system are influenced by factors like weight and nature of the attached machine, state of the ground and road conditions, so it is important to pay attention to good driving skills, as dictated by each situation.
- 20. Be extra careful on slopes , taking into account the length, height and weight of the machine and the towed implement.
- 21. Before using the machine, ensure that all the safety guards are in place and in good condition. Damaged guards should be replaced immediately.
- 22. Before each usage of the machine, all screws and nuts particularly those which secure the soil engaging parts, should be tight. Re-Tighten if necessary.
- 23. Park the machine on a level surface to prevent it from running off.
- 24. Crushing or cutting zones can be operated by the remote control instruments notably those that are operated hydraulically.

Before getting off the tractor or making adjustments to the machine, turn off the engine, withdraw the ignition key and wait for all moving parts to come to a complete stop.

26. Do not go between the tractor and the machine without having applied the handbrake securely or having placed blocks under the wheels.

HITCHING

27. Before making any adjustments to the machine make sure that it cannot be put in motion accidentally.



- 2. Never stand between the tractor and the machine when operating the control lever to raise or lower the machine.
- 3. When transporting the machine in the raised position put the command lever in the locked position.

WARNING SYMBOLS



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Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.

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Stay a safe distance from the machine.



Insert safety lock before getting into hazardous area.



Never reach into rotating auger.



Never reach into the crushing danger area as long as parts may move.



Do not ride on platform or ladder.

- 1. Attention! This circuit is under pressure.
- 2. When using the hydraulic rams, take care that the circuits are correctly connected, in conformance with the manufacturers instructions.

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- 3. Before connecting the hose to the tractor's hydraulic circuit make sure that the lines both on the tractor side and the machine side are not under pressure.
- 4. It is strongly recommended that the machine operator puts an identification label on the hydraulic connections between the tractor and the machine to avoid connection errors. **BEWARE!** There is danger of reversing the functions (i.e. raise, lower).
- 5. Examine regularly hydraulic hoses. Damaged or worn hoses must be immediately replaced. When replacing hoses ensure that only parts approved by the manufacturer are used.
- 6. When attempting to locate a hydraulic leak, take all possible precautions to avoid accidents.
- 7. Any liquid under pressure, for example oil in the hydraulic circuit can damage the skin and cause serious injury. In case of injury consult a doctor immediately. There is a danger of infection.
- 8. Before working on the hydraulic system lower the machine, depressurise the system, turn off the engine and remove the ignition key.

MAINTENANCE

- 1. Before all maintenance, service or repairs and when trying to identify a breakdown or malfunction you must ensure that the power drive is disconnected and that the engine is switched off and ignition key removed.
- 2. Check tightness of screws and nuts. Retighten if necessary.
- 3. Before maintaining a machine in the raised position, support it by appropriate means.
- 4. Before replacing a working part, wear protective gloves and only use the appropriate tools.
- 5. To protect the environment, it is forbidden to throw or pour out oils, grease, and filters of any description. They should be given to firms specialising in their disposal.
- 6. Before working on any electrical circuit disconnect the energy source.
- 7. Protective covers which are prone to wear should be checked regularly. Replace immediately if damaged.
- 8. Spare parts must conform to the manufacturers specification. Only use genuine Moore parts.
- 9. Before undertaking any electrical work on the tractor or attached machine, disconnect the alternator cable and the battery.
- 10. Repairs carried out on parts under tension or pressure (springs or components under pressure etc.) require specialist knowledge and tooling so should only be carried out by qualified personnel.

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A HITCHING

Hitching Height

The height of the hitching point has a great effect on the smooth running of the machine.

- The hitching point must be permanently fixed. The three point linkage may not be used.
- Give priority to lower hitching heights, particularly when using for direct drilling: (pick up hitch or swinging drawbar).
- The latter is recommended when using large tyres or dual wheels, to allow turning on the headlands.

Locking the drawbar

There are 3 locking positions for the drawbar.

- Position ① is used only for sowing in extremely light soil.
- Position 2 is the 'normal' working position.

In the event of hard ground where the drill's penetration is insufficient in Position (2) try Position (3). If need be, carry out the reverse for very soft ground.

Setting Up

Uncouple the drill on a hard level surface. Change the position holes.





To change position, unhitch machine.

B. Transport

Setting up in the transport position: $\ensuremath{\textcircled{0}}$

- Raise the drill
- Set the locking pins
- Lower the machine onto the pins

C. Hydraulic connections

- Double acting hydraulic system which allows machine to be raised.
 - BLUE for raising and RED for lowering
 - Single acting marker system (Spi Markers).
 - Hydraulic Drawbar (Optional) Double acting. BLUE for shallower Working. RED for deeper working.





MACHINE ADJUSTMENT

A SEED TYPE

Distribution slide adjustments

Slide position:

- ① Closed position (seeds every other row for example).
- ① 1st position small seeds: rapeseed, flax, lucerne.
- ② 2nd position, large course seeds: cereal, peas.

Peg Wheel Selection

- Standard wheel ① for cereals and large coarse seeds.
- Fine wheel ⁽²⁾ for small seeds.

Push the pin into the brass slot on the right hand side of the peg wheel a Press b Turn

Adjustments to Skid Flaps

Position lever ① at a notch according to the seed:

1 Rapeseed 2 Flax/Cereal 3 Cereal 4 - 5 Peas/Beans 6 Large Peas/Beans Fully Open - For emptying purposes.

Variator Adjustment:

Setting pointer 3 can be adjusted between 0-90 on the scale 2 as directed in the tables using the Handle 3.





Use the calibration charts.

Callbration

Precaution

- ensure that all peg wheels are engaged.
- ensure that the distribution slides are closed when not in use. This helps to prevent rodent damage.

Procedure:

- Open tray ① and push it down to make it fit under the distribution points.
- Take the calibration handle and join it to the shaft on the side of the variator or hectaremetre.
- Begin the calibration with 50 turns of the crank-handle to settle the contents, empty the trays.
 - To Calibrate: The number of turns of the crank should correspond to the operating width of the drill

2.4 m = 50 turns

3.0m = 40 turns

4.0m = 30 turns

Weigh the obtained quantity of seeds and multiply by 50 to get the quantity per hectare. OR by 20 to get the rate in Lbs/Acre. Correct the variator indicator if necessary.

Repeat a control test. Close up the tray.



For accurate seed rates, it is necessary to carry out a calibration test.

C SOWING DEPTH

Adjustment to crank

Control of depth is carried out using a Depth Control Screw acting on weight transfer.

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- By turning the crank anti-clockwise, the seed depth is decreased $\ensuremath{\widehat{\mathrm{0}}}$
- By turning the crank clockwise, the seed depth is increased 2.
- To reduce pressure on the crank, pressurise the lifting gear.

Use of the hydraulic depth control: (Optional)

Place the ram in middle position. Regulate seed depth using the crank. Modulate the depth in + or - activating the ram and using the coloured indicators.





The height of the mounting and the position of the lock on the draw bar will affect the adjustment of the depth. It may be necessary to modify them to obtain desired depth. Refer to the paragraph "hitching". Check the depth of seed accurately by uncovering the seed. Do not sow seeds too deep. D

COULTER ADJUSTMENT

Height Adjustment

- The tip of the coulter is set up about 12 mm from the edge of the disc.
- This minimum distance must be adhered to, in order to protect the coulter from violent impacts, and to allow the disc to cut..
- It is easy to adjust this height, resting the machine on a flat surface, placing a wedge under the coulter.

NB: When used on very trashy soils, it is advisable to raise the coulter tip to about 40 mm from the edge of the disc in order to improve the action.



Put transport safety pins in before adjusting coulters.

Coulter Pitch Adjustment

For most seeding conditions and as a general rule the tip E of the seed tube coulter should be set so that it is approximately 12 mm above the outer edge of the disc. The leading edge of the seed coulter should be set parallel to the disc and just touching it ① This can achieved by means of the retaining bolts A and B and the adjusting screws C and D. If the tip, E of the seed coulter is out from the disc, this can be corrected by tightening bolt A (front bolt) more than bolt B, while the top, F of the seed coulter can be brought in towards the disc by tightening Bolt B (rear bolt) more than Bolt A.

Some discs, may be slightly distorted, but when in work the side force of the soil on the disc will keep it in contact with the seed coulter. A certain amount of bedding-in and wear takes place between the disc and the seed coulter and it may become necessary to adjust screws C and D to position the seed coulter close to the disc.

Check the position of the seed tube coulters in relation to the disc coulters daily.





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E:

MARKERS (SPI)

Putting in working position

The markers are designed to mark at the centre of the tractor.

Put pressure on the hydraulic circuit.

Pull back the transport locking lever ①

Lower the first marker-and extend the arm (pull back pin 2 and unscrew screw 3. using the adjustment screw.)

- It is possible to regulate the disc's slope to have a more or less pronounced mark in the ground.
- Four adjustments are possible changing the positioning wedge ④. The markers are preset in the factory. However if you wish to adjust this setting, move the disc ⑤ support on the tube.
 - The distance between the last line of seeds and the marker is equal to half the width of the work plus half the gap.





Lock markers during transportation. Neutralise the oil pressure before connecting the drill.

Safety

Marker safety is in place only when machine is working.

Active Safety - Spring Tine shock absorber between the arm and the disc.

Passive Safety - A shear bolt ① is provided with a tensile strength 6 - 8 Replacement bolt ② on the arm-rest.

Working:

Put pressure on -	2 markers are raised.
Decrease pressure -	1 marker is lowered
Put pressure on -	the lower marker is raised
Decrease pressure -	other marker lowered





The markers should be raised and lowered gently. Turning at the end of the field should be carried out with both the markers raised.

For transportation: shorten the arms if the height is limited.

F: ELECTRONIC TRAMLINER

Principle:

Closes the seed flow to the rows forming the tramlines to facilitate further crop treatments taking into account the wheel sizes of subsequent machinery.

Functioning:

Description of the second s

② Half Width Shut Off (Where Fitted)

Clasp the collar midway on the distribution shaft

- (a) Push
- (b) Turn

Only the left hand side is disengaged.



For efficient use of the "tramliner" ensure that the electrics are properly connected.

Marking Out Device

This refers to marking out bout widths.

	Width of	Half Drill closed	INSTRUM	ENT PAD
DRILL	Tramline Metres	for correct tramlining	Programme	No of Drill runs to start tramline
a posta a transforma a companya a	9	No	3	2
	12	Yes	4	2
3 M	15	No	5	3
	18	Yes	6	3
	21	No	7	4
	24	Yes	8	4
	12	No	3	2
	16	Yes	4	2
	20	No	5	3
4 M	24	Yes	6	3
	28	No	7	4
	32	Yes	8	4
	36	No	No 9	
		n //		976 97 107 107 107 1000 - 1000 1007 100 100 1000 10

(P)

Using the half sower Begin on the right of the field. Don't forget to re-engage the half sowing mechanism before the second width.

Marker remote control

Support ① attaches Bowden Cable in Tractor Cab

When marking out: Operate the Bowden Cable on the tramline run Bouts can be manually counted on the scale included.

MOORE Tronic remote control

The automatic bout counting is based on the movement of the markers, raising the sower in the middle of the field will not change the location. To change the track width, move the seed tubes to the corresponding rows.

N.B. On drills without markers, the counting function can act on the rear axle using a proximity switch and magnet, this will count on raising/lowering drill.





Maintain pressure on the hydraulic spool lever for a few seconds.

A CLEANING

Blow out the inside of the distribution hopper. Wash the sower.

High pressure cleaners damage electrical circuits.

B GREASING

Regularly grease the machine at the beginning and end of job.

- Every 10 hours Front Pivots
- Every 20 hours The markers

Oil the tramline clutch spring, (use penetrating oil).

Oil the distribution chains.

Slack drive chains can be adjusted using slotted holes on seedbox mountings and drive arms.

Grease the gear wheel of the hectare counter (if fitted).

Check the level of oil in the variator (Drill horizontal), adjust the level to the red mark with automatic gearbox oil. ATF - DEXTRON II D or similar.



The variator should be drained off every 500 hectacres or every two years if the machine has not been used. Never grease peg wheels or seed tubes.

CHECKLIST

Check Wear

C

Discs

This is an essential piece of the system for drilling the ground. If they become too small, problems with trash clearance, buildozing and penetration may occur.

The Guide Plates behind the Drag Arms.

Never lubricate nor grease

Reverse, turn around or change these plates when they are one third worn.

Seed Tube Coulters

Adjust the tip of the coulter to approx 12 mm from the edge of the disc. Also adjust the leading edge of the coulter to run parallel to the disc and allowing the disc to turn freely. Performance in wet conditions can be impaired with worn coulter tips, which allow wet soil to block the opening.

Check the tightness.

After every 20 hours of use: Check tightness of main nuts and bolts. After every 10 hours use: Check the tightness of all soil engaging nuts and bolts on the drill and the studs on the discs. Also check for slack roller and disc bearings.

If there is play in these bearings it is necessary to retighten them:

- Remove the dust cap
- Tighten the bolt until the disc rotates smoothly.
- Make it a practice to check the bearings every day for trouble free use.

Check periodically the tightness of the rims and the pressure of the tyres.

Model / Tyre	10·5 x 15·3 x 10	31∙0 x 15•5 - 15	19·0 x 45 - 17
2.4 M	1.5	N/A	N/A
3.0 M	1.5	1.0	N/A
4.0 M	N/A	1.4	1.0

Pressure in bar @ 30 Km/Hr with empty seedbox.



Regular checking of the bearings will ensure trouble free use, especially during the first 100 Hectares.

D SPECIFICATIONS

Identification

5.89909.01920.

When accepting ownership of your machine note the following information:

Number on the machine:
Type of machine:
Accessories:

Specification:

MOORE UNIDRILL 2.4 M GRASSLAND

Width of work	2.40 m
Transport width	2.40 m
Seedbox capacity	700 lit
Row Width	13.3 cms
No of Rows	18
Horsepower Required	80
Weight	1950 Kg

MOORE UNIDRILL 3M GRASSLAND

3.00 m
3.00 m
13.3 cms
22
100
2500 Kg

MOORE UNIDRILL 3 M

Width of work	3.00 m
Transport width	3.00 m
Seedbox capacity	
Row Width	16.6 cms
No of Rows	18
Horsepower Required	90
Weight	2150 Kg

MOORE UNIDRILL 4 M

Width of work	4.00 m
Transport width	4.00m
Seedbox capacity	
Row Width	16.6 cms
No of Rows	24
Horsepower Required	120
Weight	2670 Kg



Safety stickers have been placed on your machine.

Their purpose is to contribute to your safety and that of others. Read their contents and make sure they remain stuck on. Review the notes and the instruction contents in the instruction leaflet with the operator of the machine.

Keep the stickers clean and legible. Replace when they deteriorate.

OPERATION

A. PREPARATION AND CALIBRATION

Attach the drill to the tractor and raise the drill to its maximum height, remove the road transport pins. Calibrate the seeding mechanism for seeds to be sown as in section 2 B.

B. RUNNING IN

If the drill is new and is to used in cultivated soil, it is better to 'run-in' the drill in hard ground, such as a grass field. It is easier to work off the paint and rough edges from the seed tube and disc coulters when working in firm ground where there is more friction to turn the discs. This only requires a few turns across a field without seed. The depth control of the All-Till Seedbed Drill can be tried out by turning the depth control screw up or down to increase or decrease the depth of penetration. Check that all the discs turn relatively freely; it may be necessary to slacken off seed tubes that are rubbing tight against the discs.

C. FIELD OPERATION

Do not turn sharp corners with the All-Till seedbed drills, especially in direct drilling operations as this will give wrong disc-to-soil side thrust. When this happens the disc is parted from seed coulter and trash can then enter between them resulting in blockage to the seed flow. It is better to lift the machine out of and into work when turning corners.

D. WORK RATE

As there is no disc bounce, due to the high inertia coulter system with press wheels, relatively high ground speeds can be tolerated giving high work rates. The operating speed and the quality of work which results is controlled by field conditions but wherever possible a steady speed should be maintained. As field condition s vary, it may be necessary to adjust the coulter settings to maintain seed depth and cover.

E. SEEDBED PREPARATION

It is not necessary to prepare a fine seedbed as for other drills. The All-Till Seedbed Drill prepares its own mini seedbed by using an angled disc and seed tube coulter tine. In most fields it is only necessary to plough and perhaps level and roll. If he soils are loose, puffy soft or have loose stones on the surface, it will generally be advantageous to roll the field first. This will reduce blockages and help maintain even depth control.

Where a fine seedbed has been prepared and it gets wet, then the soil acts as a sponge and absorbs a lot of water, making it almost impossible for the drill or any other implement to work in it. Therefore it is better to consolidate loose seedbeds so that they will not absorb so much water. The drill will work on most firm consolidated seedbeds provided the drill is being used at speed. At a speed of over 6 M.P.H. the centrifugal force on the discs and rollers tends to fling the stickey soil from them; just like driving a tractor along a road, where the dirt on the tyres is thrown off when it reaches a certain speed.

F. DRILLING IN CONVENTIONAL SEEDBED

When working in cultivated soil, most of the drill weight is carried on the press wheel rollers and tractor drawbar. Seed depth can be obtained by adjusting the depth control screw in the usual manner. The soil is usually tracked to the depth required by the disc seeding units and consolidated by the press wheel rollers - this gives ideal conditions for seed germination.

It is recommended that the centre of the field should be drilled first and the headlands last. If the headlands are planted first then the tractor and drill will travel and turn on planted ground, thus disturbing, compacting and moving seeds that have been placed at a constant depth. Check seeding depth in the field and on headlands, remember the headlands tend to be more consolidated than the remainder of the field.

On rougher type of seedbeds the drill itself tends to be self levelling. The seed tube and disc coulter units tend to move the soil from humps to hollows. IT IS NOT NECESSARY TO HARROW AFTER SOWING. Harrowing will move seeds either shallower or deeper thus giving uneven germination. Remember seeds that are planted two to three inches deep take about two weeks longer to germinate and appear as weak plants, that are under stress and are susceptible to disease.

If rolling behind the drill on lighter soils is thought to be beneficial, remember that the seed has been accurately placed at the ideal depth for early and even emergence. Rolling will tend to flatten the ridge of soil between each press wheel mark and will in fact add to the soil cover over the seed thus slowing emergence and probably reducing vigour. This extra soil cover over the seed must be allowed for, when deciding drilling depth when starting the field.

G. DRILLING IN WET CONDITIONS

The All-Till Seedbed Drills are now fitted with adjustable scrapers for the press wheels. Wet soil will usually build up to about one inch on any wheel. Adjust the scrapers so as to knock off the excess soil that would build up over the normal amount of soil that sticks to the press wheels. Leave a gap of 25 to 30 mm between the scraper and the press wheel. Never reverse the drill with the seed tube coulters in the ground as this would block the seed outlets with soil. Where there are very wet pockets of soil in some fields, the road wheels can be used to slightly raise the drill out of the ground thus assisting the drilltoo high; always keep the stalker wheel in contact with the ground.

H. DRILLING INTO STRAW INCORPORATED SOIL AND TRASHY CONDI TIONS

In heavy trash conditions it may be necessary to raise the tip of the seed tube coulters so that the disc will cut through the trash before the coulter opens the slit. In heavy maize trash, especially in the direct drill or no-till situation, it may be necessary to raise the tip of the seed tube coulter 30 to 40mm above the edge of the disc.

The discs cut through the trash very positively. The weight of the press wheels keep the discs anchored and do not allow the discs to ride out of the soil, evenwhen there is a lot of trash present. Bulldozing normally occurs when a disc meets trash, tries to ride up over the trash, then pushes it in front of the disc, thus causing bulldozing and blockages. If this happens it is usually due to thesoil underneath being too loose. The drill will cut cleanly through, given that it has something to "bite on". Consolidating the field with either rollers or a land packer, sufficient to allow the drill's discs to turn, will usually cure the problem."

The trash itself, on decaying, produces acids, toxins, etc., which tend to damage or kill the germinating seed. If the trash is mixed with the soil and consolidated tightly to give good straw/soil contact then the soil will absorb the toxins as they are formed, before they can harm the germinating seedlings. The press wheels on the All-Till Seedbed Drill consolidate the trash, soil and seed in exactly he right manner to give very healthy plant stands even in the heaviest incorporated residues. If straw is incor porated into the soil to leave a loose fluffy seedbed then it is better to consolidate this first using either a roller, crumbler bar, land packer, etc., before drilling.

1. MINIMUM TILLAGE AND DIRECT DRILLING

In certain soils, especially if they contain stone or brash, it is recommended that the top 1" or 2" should be cultivated or scratch tilled. This will encourage the germination of volunteer cereals and weed seeds. It will also help to level out the tramline and wheeled tracks. Also if stones are left undisturbed in the top layer, they become embedded and the disc will ride from stone to stone without getting good penetration.

In soft field conditions it is essential to set the discs deep enough to cut through all the matt or surface trash. Seed will germinate and grow better when in contact with the soil. In wet, soft conditions the disc may be set to penetrate deeper than required. As the drill moves forward the seed is trapped by the sides of the slit and do not necessarily fall to the bottom of the slit.

J. DIRECT DRILLING GRASS PASTURES

Four methods are suggested for direct reseeding grass into grass pastures.

A. If the pasture has been badly poached or there are bare patches due to frost kill etc., over the winter, about 20 lbs/acre of a vigorous growing type of grass (e.g. I.R.G.) should be drilled just before growth starts (March/April).

B. Where a first or second cut of silage is being taken, cut low to the ground and direct drill the new grass mixture the next day. There should be enough moisture retained in the soil to germinate the seed and get it growing before the cut sward can fully recover.

C. Graze the pasture as bare as possible, then spray Gramoxone (1 pint/acre) and direct the new seeds mixture. The Gramoxone used at a low rate will not completely kill the old grass sward but should retard its growth sufficiently to get the new seeds established.

D. Where the old pasture is very weedy and a complete reseed is

required, spray with Roundup to get a total kill of vegetation. Leave the fieldfor the recommended period and direct drill with the new seeds mixture. To get a better grass cover, cross drilling at an angle is recommended, especially with the wider row spacing Uni-Drills.

Check the reseeds for leather jacket, slug or frit fly damage and treat accordingly.

Grass sown after 1st August should be sprayed pre-emergence with Dursban or Spannit to protect from frit fly and leather jackets. Slug pellets should be used as required.

K. OTHER SUGGESTIONS

(i) PRE-EMERGENCE MARKING

Once the operator is used to the hydraulic system operating the transport wheels, the wheels can be adjusted to just make a mark on the soil behind the drill. This can be easily followed for pre-emergence chemical applications. This is achieved by activating the float position on the spool valve whilst on the tramline bout.

(ii) PRE LOADING DRAGARMS

If it is seen that during drilling, the coulters behind the tractor wheels are not drilling at the same depth as the rest. The dragarms on these coulters can be pre loaded by placing washers or similar spacers between the front spring - lower and the spring locating bush.



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MAIN FRAME & DRAWBAR ASSEMBLY			
ITEM	PART NO.	DESCRIPTION	
1	110 - 04	Main Frame 4M	
	110 - 03	Main Frame 3M	
	110 - 01	Main Frame 2.4M Grassland	
	110 - 22	Main Frame 3M Grassland	
2	120 - 04	Drawbar Assembly 4M	
	120 - 03	Drawbar Assembly 3M	
	120 - 01	Drawbar Assembly 2.4M Grassland	
	120 - 22	Drawbar Assembly 3M Grassland	
3	121 -1234	Drawbar Towing Arm	
4	122 - 1234	Drawbar Connecting Pin	
5	125 - 1234	Transport Pin c/w Lynch Pin	
Â	126 - 04	Axle Mounting Unit 4M	
Ū	126 - 03	Axle Mounting Unit 3M	
	126 - 01	Axle Mounting Unit 2 4M Grassland	
	126 - 22	Axle Mounting Unit 3m Grassland	
7	128 - 1234	Bam - Top Pin	
8	120 - 1234	Bam - Bottom Pin	
å	130 - 1234	Pivot Collar - Ayle Linit	
10	131 - 1234	Pivot Bush - Avia Unit	
10	132 - 1034	Pivoting Arm Linit	
10	134 - 1234	Dopth Control Screw	
10	135 1234	Depth Control Screw - Nut	
14	136 - 1234	Depth Control Screw - Tube	
14	137 1234	Depth Control Screw - Handle	
16	138 - 1234	Depth Control Screw - Trunnion	
17	100 - 1204	Depth Control Screw Holder	
19	141 - 0004	Eront Pivot Bor 4M	
10	141 - 0030	Front Pivot Bar 3M & 3M Grassland	
	141 - 1000	Front Pivot Bar 2 /M Grassland	
10	147 - 1000	Spacer Bush - Joper Standard	
19	142 - 0204	Spacer Bush - Inner Standard	
20	142 - 1000	Spacer Bush - Inner Narrow Spacer Bush - Inner Bushed Standard	
20	143 - 1000	Spacer BUSH - Inner Bushed Marrow	
21	A 101	1" x 6" UNC Bolt	
20	A 110	M12 x 75 Bolt	
23	A 117	11/2" x 7 1/2" LINC Bolt	
24	A 129	1 ³ / ₄ " UNC Nyloc Nut	
25	A 130	1" LINC Lockput	
26	A 150	M6 x 50 Split Pin	
27	A 152	I ynch Pin	
28	A 153	M8 x 40 Spirol Pin	
29	A 154	1 ¹ / ⁴ x 8" Drawbar Pin	
30	A 155	2" Timkin Thrust Bearing	
31	A 156	1 ³ / _a " Timken Taper Boller Bearing	
32	A 159	Oilite Bush	
33	A 164	Boad Wheel - 10.5 x 15.3 x 10 Plv	
00	A 165	Boad Wheel - 15.0 / 55 - 17	
	A 166	Road Wheel - 19.0 / 45 - 17	
34	A 169	2 ¹ / ₂ " Dia Hydraulic Cylinder	
35	A 171	Hydraulic Hose - Ram Tractor	
36	A 173	3/s" B S P Tee M M F	
37	A 178	Hydraulic Hose - Ram Ram 3M	
37	A 179	Hydraulic Hose - Ram Ram 4M	
38	Δ 185	Denth Control Spring	
30	144 - 0004	Spacer Bush - End 4M	
00	144 - 0030	Spacer Bush - End 3M	
	144 - 1000	Spacer Bush - End 2 4M	
40	A 199	11/2" x 1" Hardened Bush	
40	A 493	Tension Spring	
42	A 295 S	Safedeck 2.4M	
-76	A 296 S	Safedeck 3M	
	A 297 S	Safedeck 4M	
43	120 - 04 H	Hydraulic Drawhar Assembly - 4M	
	120 - 03 H	Hydraulic Drawbar Assembly - 3M	
	120 - 01 H	Hydraulic Drawbar Assembly - 2 4M Greeeland	
	120 - 22 H	Hydraulic Drawbar Assembly - 2.4W Grassland	
44	121 - 34 H	Hydraulic Drawbar Towing Arm	
45	123 - 34 H	Hydraulic Stav	
46	123 - 345	Standard Stav	
70	120 040	orandere oraș	



х (DR	AGARM SEEDING UNIT
ITEM	PART NO.	DESCRIPTION
1	201 - 0234	Dragarm Axle Unit
<u>^</u>	201 - 1000	Dragarm Axie Unit Grassiano
2	220 - 1034	Pross M/bool
3 A	203 - 1034	Disc Hub
+ 5	205 - 34	Disc Mounting Bracket - B H
5	205 - 12	Disc Mounting Bracket - R.H. Grassland
6	206 - 34	Disc Mounting Bracket - L.H.
	206 - 12	Disc Mounting Bracket - L.H. Grassland
7	207 - 1234	Seed Tube Coulter - R.H. 25mm
	207 - 1234 T	Seed Tube Coulter - R.H. 25mm Jungsten
	207 - 1234 L	Seed Tube Coulter - R.H. 30mm
0	207 - 1234 LI	Seed Tube Coulter - H.H. 30 mm Tungsten
8	200 - 1234 208 - 1234 T	Seed Tube Coulter - L.H. 25mm Tubesten
	208 - 1234 1	Seed Tube Coulter - L.H. 20mm
	208 - 1234 LT	Seed Tube coulter - L.H. 30mm Tungsten
9	209 - 1234 L	Seed Tube Retaining Plate
10	210 - 0034	Press Wheel Scraper
	210 - 1000	Press Wheel Scraper Grassland
11	211 - 1234	Dragarm Guide Plate - R.H.
12	212 - 1234	Dragarm Guide Plate - L.H.
13	213 - 1234	Guide Plate Bar Guide Plate Distance Piece
14	214 - 1204	Disc Bearing Benjacement Unit - B H
10	215 - 12	Disc Bearing Replacement Unit - R.H. Grassland
16	216 - 34	Disc Bearing Replacement Unit - L.H.
	216 - 12	Disc Bearing Replacement Unit - L.H. Grassland
17	221 - 1234	Front Spring Arm
18	132 - 1034	Pivot Arm Unit
19	A 103	1" x 4 ³ /4" UNC Bolt
20	A 107	M16 X 55 BOIL M10 x 75 Bolt
21	Δ 111	M12 x 75 Bolt
23	A 113	M10 x 70 Bolt
24	A 114	M10 x 50 Bolt
25	A 120	³/₀" x ³/∢" UNF Setscrew
26	A 122	M10 x 20 Setscrew
27	A 130	1" UNC Locknut
28	A 132	3/4" UNF Locknut
29	A 137	M16 Locknut
30	A 138 A 139	M12 Locknut
32	Δ 145	M20 x 35 H D. Washer
33	A 146	M16 x 32 H.D. Washer
34	A 148	3/6" Spring Washer
35	A 149	1/2" x 13/4" Spirol Pin
36	A 157	1" Timken Taper Roller Bearing
37	A 158	1" Tinken Circlip
38	A 159	Ollite Bush Cond Disc Coulton 16"
39	A 160 L	Seed Disc Coulter 18"
40	A 180	Spring Retaining Bush
41	A 181	Spring Locating Bush
42	A 182	Dust Cap - Small
43	A 186	Front Spring - Lower
44	A 187	Front Spring - Upper
45	A 188	Rear Spring Bush
46	A 189	Hear Spring - H.D.
4/	A 190	Grease Nipple

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ITEM	PART No	DESCRIPTION	ITEM	PART No	DESCRIPTION
1	S900191	Marker Level R.H.	39	S909076	Tray Spring Clip
2	\$900192	Marker Level L.H.	40	S555660	M6 x 10 Setscrew
3	S900189	Click Unit R.H.	41	S904599	Skid Flap Support
4	S900190	Click Unit R.H.	42	S908278	Tray Pin
5	S909085	Click Spring	43	S525895	M8 x 45 Screw
6	\$909095	Ram Return Spring	44	S909081	Skid Flap Spring
7	S908271	Hydraulic Ram	45	S571806	M8 Square Nut
8	S900644	Ram Piston	46	S571458	M8 Locknut
9	\$795511	Control Valve	47	S540855	M8 x 15 Screw
10	S900655	Pivot Bolt	48	S900489	Seed Feeding Unit
11	S552540	M14 x 90 Bolt	49	S907381	Feed Trap Shutter
			50	S908288	Skid Flap
13	\$909508	Adjustable Stop	51	SM901446	Seed Feed Drive Shaft 4 M
				SM901447	Seed Feed Drive Shaft 2.4 M
				SM90144	Seed Feed Drive Shaft 2.4 M
			52	S901543	Clutch Hub
			53	S909095	Retention Spring
			54	S909068	Feed Trap Spring
19	5900054	Control Box Holder	56	S900520	Seed Wheel Unit
			60	S900043	Tramine Lever
21	5900052	Spring Holding Plate	61	S554610	M6 x 20 Screw
22	S9000045	Ram Holding Plate	62	\$909083	Clutch Spring
23	SM90062	Seed Box 4M	63	S901538	Fine Seed Clutch Wheel
	SM90096		64 07	5901539	Standard Seed Wheel
24	SM90090	V Polt Clamp	65	5901452	Seed wheel Lock Fin
24	5901576 C006169	Tramling 11-Plate	60 67	5000082	Steel Dall
25	S900108	Seed Agitator 4M	69	3909002 S001541	Spring Plastic Scrow
20	SM900013	Seed Agitator 2M	60	S901541	Fine Soed Wheel
	SM900010	Seed Agitator 2 4M	71	SM001448	Skid Adi Shaft 4M
27	S907671	Plastic Partition	<i>,</i> ,	SM001440	Skid Adi, Shaft 3M
28	SM909733	Seed Box Lid 4M		SM901444	Skid Adi, Shaft 2.4
_0	SM909734	Seed Box Lid 3M	72	S900975	Skid Adi, Handle
	SM909735	Seed Box Lid 2.4M	73	SM900076	Central Adi, Bracket
29	S906154	Tray Clip Clutch	74	A 315	Flex. Seed Tube
30	\$901473	Shaft Brg. Plate	75	A325	Seed Tube Bellows
31	S901547	Plastic Bearing	76	A326	Seed Tube Joint 25mm
32	S901546	Seed Box End Brg.		A326L	Seed Tube Joint 30mm
33	\$900952	Agitator Brg. Plate	77	A330	Seed Cup Holder
34	S908010	Retention Spring	78	A345	Bowden Cable c/w Hand Unit
35	5904319	Spring Fastener			
36	S904388	Nylon Pivot Arm			
37	SM900210	Seedcup Holder Unit 4M			
	SM900207	Seedcup Holder Unit 3M			
	SM900208	Seedcup Holder Unit 2.4M			
38	SM900969	Cover/Coil Tray 4M			
	SM900967	Cover/Coll Tray 3M			
	SWA00A68	Cover/Coll Tray 2.4M			

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SEED BOX DRIVE UNITS (B)

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ITEM	PART No	DESCRIPTION
1	S910221	Variator 2
2	S553612	Allen Screw 6 x 12
3	S573107	Washer M6
4	S571206	Nut M6
5	S795060	Oil Filter Plug
6	S751005	Seal 20 x 35 x 7
7	S963080	Butt Join
8	S711010	Bearing 6204 20 x 47 x 14
9	S795070	Lubricant Indicator
10	S935002	Double Cam
11	S480002	Dextron oil
12	S590306	Roll Pin 6 x 30
13	S596875	6 x 56 Key
14	S922033	Drive Shaft
15	S987703	Gasket
16	S910296	Handle 8 x 40
17	S989002	Scale
18	S925027	Spacer
19	S918096	Variator Chain Guard
20	S901040	Free Wheel Sprocket
21	S923043	Free Wheel Inner Bush
22	S915014	Distribution Colle=ar
23	S915012	Distribution Lever
24	S590457	Spirol Pin 8 x 35
26	5598041	
27	\$732001	Circlip 2.65 x 15.1
28	5922029	Plateau Shait
29	5981004	Lever Spring
30	5910239	Freewheel Assembly
31	5914022	Cam Lever
3 <u>2</u>	5922031	Freewheel Shall
33	5712013	Preewheel Bearing
34 25	5711009 DEE1604	Deaning 0005 25 x 47 x 12
30	5001004 C015012	Distory
30	5915013	Cil Droin Dlug
3/	3904000	Oil Diain Flug

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ITEM	PART No	DESCRIPTION
38	S737003	Oil Drain Seal
39	S712012	Freewheel Collar
40	S914025	Variator Cover
41	S590106	Spirol Pin 3.5 x 30
42	S590257	Spirol Pin 5 x 35
43	55/4225	Spirol Dip 6 x 25
44	3090307	Chain Guard Cover
45	341-1034	Chain Guard Upper
47	338-1034	S.B. Inner Angle Bracket
48	339-1034	S.B. Outer Angle Bracket
49	S900204	Counter Lid
50	S900998	Counter Casing
51	S900952	Agitator Bearing
52	SM900004	Agitator 3M
	SM900019	Agitator 4M
	SM900010	Agitator 2,4M
53	S551685	M6 x 35 Setacrew
54	5909078	Spirol Screw Hectametre
55	5590357	M6 X 35 Spirol Pin
50	5900205	20 Tooth Pinion 3M
	5900200 5000207	25 Tooth Pinion 2 4M
57	5900828	Hectametre
58	S905302	Small Support Plate
59	S904566	Adjustable Support Plate
60		Seed Box Side LH
61		Seed Box RH



SEED BOX DRIVE UNITS (C)

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ITEM	PART NO.
1	318 - 1034
2	319 - 1234
3	340 - 1034
4	343 - 1034
5	344 - 1034
6	· 348 - 1034
7	346 - 1034
8	347 - 1034
9	A 106
10	A 111
11	A 115
12	A 1121
13	A 132
14	A 138
15	A 145
16	A 1561
17	A 157
18	A 182
19	A 183
20	A 493
21	313 - 0034
22	314 - 1234
23	315 - 1234
24	316 - 1234
25	317 - 1234

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Drive Wheel Spacer Pivot Bkt. Washer Chainguard - Lower 18T Double Drive Sprocket 20T Drive Sprocket - Lower Connecting Link 134L. Drive Chain - Lower 114L. Drive Chain - Upper M20 x 70 Bolt M12 x 55 Bolt M12 x 55 Bolt M12 x 80 Bolt M10 x 40 Setscrew ³/₄"UNF Locknut M12 Locknut M20 x 32 H.D. Washer [³/₆" T.T.R.Bearing 1" T.T.R.Bearing Dustcap - Small Dustcap - Large Tension Spring Support Arm - Pivot Bkt. D.W. Support Arm - Upper D.W. Support Arm - Lower Drive Wheel Drive Wheel - Axle

DESCRIPTION



Spi Vertical Lift Marker (D)

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ITEM	PART NO.	DESCRIPTION
1	S 917109	Marker Arm Outer
2	S 940032	Marker Arm Inner
3	S 927002	Marker Arm Pin
4	S 594606	Lynch Pin
5	`S 415 7 52	Stay Clip
6	S 918093	Length Adjusting Handle
7	S 916049	S Tine Support
8	S 914011	Marker Angle Adjustment Bracket
9	S 963025	Angle Adjustment Block
10	S 552115	Bolt M10 x 60
	S 573110	Washer M10
	S 571460	Nut M10
11	S 590307	Roll Pin M6 x 35
12	S 921017	Marker Disc Shaft
13	S 908360	Bearing_Holder
14	S 711000	Marker Bearing
15	S 415717	Marker Bearing End Cap
16	S 551662	Bolt M6 x 15
	S 571270	Nut M6
17	S 980102	Marker Disc
18	S 980003	S Tine
19	S 552125	Bolt M10 x 70
- •	S 571460	Nut M10
20	S 571366	Nut M16 x 7
21	S 5/1216	Nut M16 x 15
22	S 5/3166	Washer M16
23	S 573170	Washer M20
24	5 573905	Nylon Bush Locator
25	5 981801	Nylon Bush
20	5 904004	Nyion Ram Locator
27	5 961302	Spring Logator
20	5 502009	
29	S 98202	n Olip Markor Stavis Left
30	S 962074	Marker Stay - Bight
21	S 5902072	Roll Die M5 x 25
30	S 014071	Markar Divot Shaft
32	S 551990	Shear Bolt M8 v 35
33	S 571209	Sheer Nut MB
34	S 552720	Bam Pivot Bolt M16 x 70
04	S 571216	Bam Pivot Nut M16
35	S 962071	Locking Plate
36	S 920019	Lateral Pivot
37	S 732005	Washer
38	S 573174	Washer M25 x 50
39	S 590207	Pin M8 x 35
•••	S 590407	
40	S 719001	Grease Nipple M8
41	S 918157	Marker Mounting Bracket - Left
	S 918158	Marker Mounting Bracket - Right
42	S 552731	Mounting Bracket Bolt M16 x 80
		Mounting Bracket Washer M16
		Mounting Bracket Nut M16
43	S 683013	Hydraulic Hose Tractor/Shuttle Valve
44	S 683901	Shuttle Valve
45	S 683009	Hydraulic Hose Shuttle Valve/Markers
46	S 982301	Marker Ram

Slide Position 2 Skid Flaps Ŵ Pegwheel Standard **Row Space** 13,3 16,9 . W kg/ha Variator Setting H E Ĭ A Т 1.180 { 170 160 210 . 220 . 250' ; l.

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SEED RATE CHARTS

Ŷ	Silde Positi Skid Flapa Pegwheel	on 1 1 Standard
w Space	13,3	16,6
kg/ha	Varietor S	Setting
16		5
18	5	6
20	6	7
22	7	8
24	8	9
28	9	10
28	10	11
80,	11	12
32	12	13
34 C	13	14
36	14	15
38	15	16
40	16	17
43 au	17	18
45	18	19
48	19	20
50	20	21

\Rightarrow	Silde Positie Skid Flaps Pegwheel	on 2 2 Standard	
low Space	13,3	18,6	1
kg/ba	Variator S	stting	
60		30	
63	***************************************	31	1
67 2		33	
71	and the state of the	36	
	30	38	
8 0	32	40	
86	34	43	
2 90	36	46	
95 +	38	48	
100	40	50	
105	43	53	
. 110	45	55	
120-	49	60	
130	52	64	
a 340 1	56	68	
150	60	71	
- 160.	63	75	
170	66	78	
i 150:	69	B1	
190	72	64	
200	75	67	
- 210	78		

	Slide Positi Skid Flaps Pegwheel	on 2 2 Standard	
Row Space	13,3	16,6	
kg/ba	Variator S	ietting	
80		41	
63		42	-
87 -		45	T
. 71		47	
VI. 78 1	41	50	
80	43	53	
	45	56	
90	48	59	
	51	62	
100	53	65	
105	56	67	
110	58	70	
120	6 3	75	l '
130	67	79	1
140	71	84	
150	75	89	1
1. a (60 .	79		
170	82		
180	86		
190	90		

Ŵ	Silde Positi Skid Flapa Pegwheel	on 2 5 (6) Standard	
Row Space	13,3	• 16,6	
	Variator S	ietting	T
		22	
r 140		25	
	[]	28	
150	_22	30	
170	24	33	S
180	27	36	_
160	29	39	
200	31	41	
1 210	33	44	
220	35	46	
-240	39	50	
250	41	52	
.260	43	54	
280	47	58	
. 300	50		
320	54		
. / 840 -	57		
360	60		

<i>~</i>	Slide Poalt Skid Flapa Pagwheel	ion 2 5 (6) Standard	
ow Space	13,3	16,6	
kg/hs	Variator Setting		
76		13	
80	10	14	
	11	15	
90	12	16	
95	13	17	
100	14	18	
	15	19	
110	16	21	
17120	17	23	
130	19	26	
13408	21	28	
150	23	31	
100	25	34	
170	27	37	
180-	30	39	
190	32	42	
200 ;	34	45	
210	36	48	
220 F	38		
240	43	······································	
250	45		
and the first of the second second second second			

Ŵ	Silde Poalti Skid Flapa Pegwheel	on 1 1 Fine	ĺ
Row Space	13,3	16,6	1
14/14	Variator !	Setting	
e t i -		5	1.
1,25	5	ß	1
	6	7	1
1,75	7	9	1
12 14	8	10	1
2,5	10	13	1
4 3 6 5 1	12	15	1
3,5	14	18	1
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	16	21	1
4,5	19	24	Ì
. 35 . 3. 3.	21	27	
5,5	23	29	1
	25	32	
7	30	38	
	35	43	T
9	39	48	1
10	43	53	
11	47		~
12	51		
13	55		1

\Rightarrow	Silde Positio Skid Flaps Pegwheel	on 1 1 Fine	
 Row Space	13,3	16,6	
kg/ba	Variator S	etting	
1,25		5	
1,5	5	8	
3.174	8	7	
2	7	Ô] 5
1 25	8	10	
3	10	12	T
19.61.	11	14	- 1
4	13	16	
	14	18	
5	16	20	
6,6	18	22	R
6	19	25	
5 7 13	23	29	
8	26	33	שן
	30	37	
10	33	41	
, 13 81	36	45	J
12	39	49	1
. 33	42	53	1
14	46		
16	49		
16	53		

Ŵ	Silds Positi Skid Flaps Pegwheel	on 1 t Standard) .		Slide Positio Skid Flaps Pegwheel	on 1 2 Standa
Row Space	13,3	16,6	RÌ	Row Space	13,3	16,6
kg/ba	Variator S	letting		kg/ha	Varistor S	etting
2.34		6	Y	45		25
12		7	- (48	20	27
13	5	9	_	50	22	26
14	в	10		53	23	30
	7	11	_	56	25	31
16	8	13	G	60	27	34
17	10	14	-]	63	28	35
18	11	15	D	67	30	30
S. 9139.2	12	17		71	32	40
20	13	18	_ ·	75	34	42
	14	19	A	BO	36	45
22	15	20		85	38	47
1.4.24.1	17	22	e	90	40	49
25	18	23		95	43	52
20	19	25		- 100	45	54
28	21	27	5	105	47	56
	22	29		110 -	49	58
32	24	31	ļ	120	52	62
. C	26	33	1	130	56	66
38	28	35		140	59	
	29	37		150	62	
40	31	39	1	160	65	

	÷	Slide Positio Skid Flaps Pegwhsel	on 1 1 Stendard	
	low Space	13,3	16,6	C
	kg/ha	Variator S	etting	
U			5	L
	20	5	6	_
C	1. 12	6	7	Q
_	24	7	8	
	28	6	9	V
_	28	9	10	
R	30	10	11	
\	32	11	12	
N	2 1 1 3 4 2	12	13	ĩ
	36	13	14	
	38.	14	15	
	40	15	16	
	42	16	17	
	45	17	18	
	48 .5	18	19	
	50	19	20	
	145 84 14	20	21	
	58	21	22	

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Silde Position 1 Skid Flaps 1 Pegwheel Standard			
ow Space	13,3	16,6	
kg/ha	Variator Setting		
16		5	
5. 18	5	8	
20	6	7	
22 1	7	8	
24	8	9	
- 26 -	9	10	
28	10	11	
90	11	12	
32	12	13	
34 1	13	14	
36	14	15	
38	15	16	
i 4 0	16	17	
4	17	1B	
45	18	19	
48	19	20	
50	20	21	

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