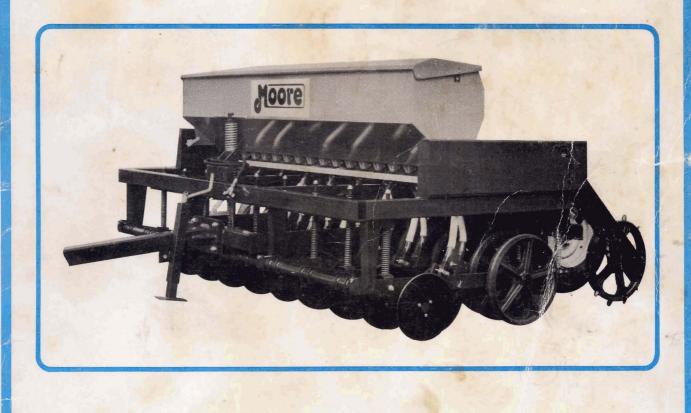
3M SERIAL NOS: 7001-7145



# **Anstruction Manual** and Parts List



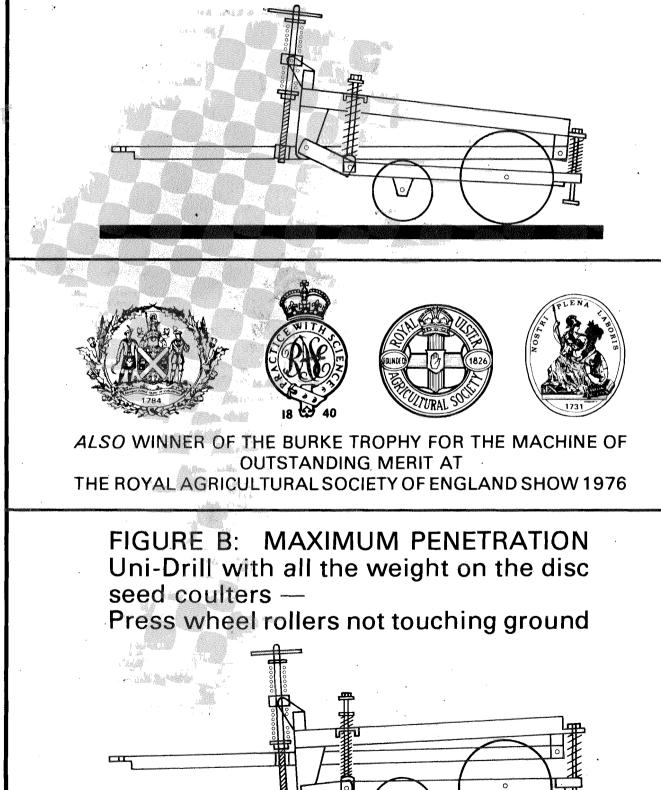


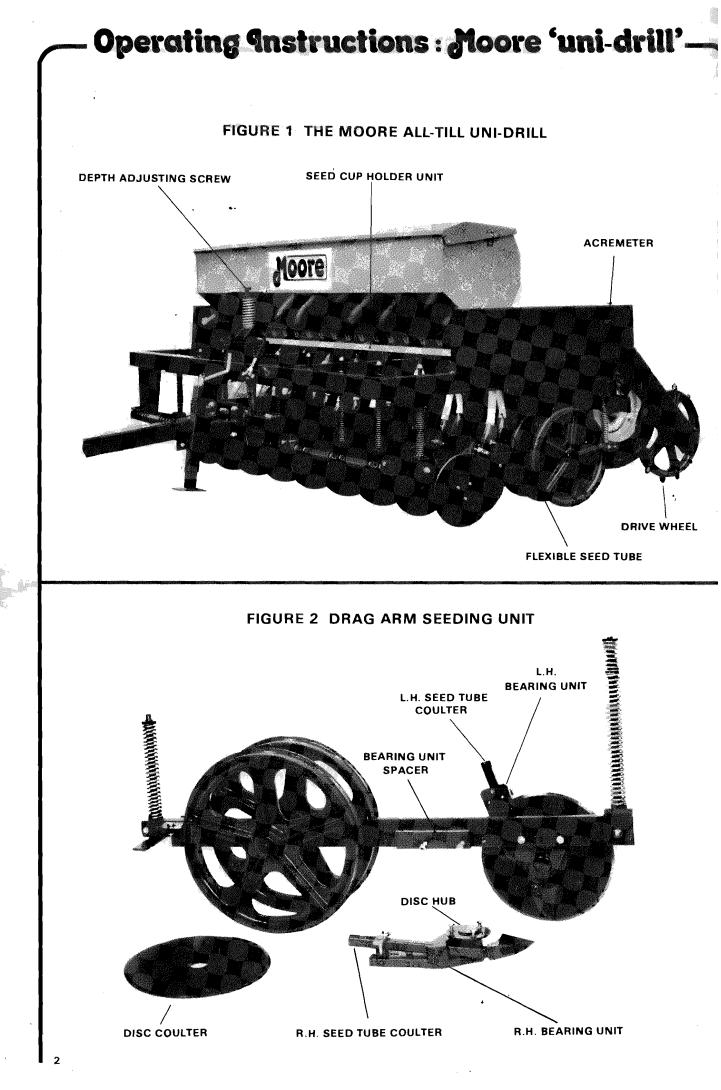
NEWHILL HOUSE, 33 KIRK ROAD, BALLYMONEY BT53 6PP, CO. ANTRIM, N. IRELAND TELEPHONE : BALLYMONEY (S.T.D. 02656) 64444

## **Operating Anstructions : Moore 'uni-drill'-**

FIGURE A: MINIMUM PENETRATION Uni-Drill with all the weight on the press wheel rollers —

Disc seed coulters not touching ground





### **Operating Instructions : Moore 'uni-drill'**

#### **1 DESCRIPTION**

The All-Till Uni-Drill will sow almost any seed into a variety of seed beds. It can be used for direct drilling or no-till application right through 'scratch' cultivations, minimum tillage to conventional seed beds. It is of robust construction and has an output of up to seven acres per hour (3 Hectares per hour).

The All-Till Uni-Drill consists of nine independent drag arm seeding units which are spring mounted to the main frame. Each unit consists of 2 discs and 2 press wheel rollers, - the discs are mounted each side of the drag arm at opposite angles. A seed tube coulter is mounted on the inside of each disc, in a position which enables the seed to be placed in a slit cut by the disc.

The press wheel rollers are mounted to the rear of the drag arms behind the discs, rolling directly over the slits.

2.	SP	PEC	:IF	ICATIO	DN
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Overall Width 9ft.8½in.	2960mm
Overall Length 12ft.0in.	0050
Overall Height (Transport) 5ft. 10in.	1790mm
Overall Height (Working) 5ft.1in.	1550mm
Total Weight 4,500 lbs.	2050 Kg.
Sowing Width 9ft.10½in.	3000mm
Number of Coulters 18	18
Row Width 6½in.	166mm
Seedbox Capacity 21 cu. ft.	600 litres

#### **3. WORKING PRINCIPLE**

"When the drill is in the raised position, the weight of the machine is carried on the two land wheels and the tractor drawbar. As the machine is lowered, the disc coulters and press wheels touch the ground, meet resistance from the soil, and begin to compress the springs attached to each end of the drag arm seeding units - the frame can be lowered until all the available weight of the machine is supported on the springs.

The penetration of the discs and hence the seed depth can be controlled by the depth adjusting screw. This alters the relationship between the discs and the roller press wheels; weight can be transferred from the rollers to the discs or vice-versa (See Figs A and B). As each drag arm is separately sprung both front and back, each unit is able to follow ground contours independently. As the drill is drawn forward, the inclined disc opens a slit and the seed tube coulter acts like a tine to prepare a tilth into which the seeds are dropped. The roller press wheels then consolidate to ensure good seed/soil contact and moisture retention.

#### 4. PREPARATION FOR WORK

*Tractor Size* - The tractor should be 50 horse power or more and fitted with an external hydraulic supply to raise and lower the machine in and out of work.

Hydraulic System - Single-acting system using a single hydraulic ram connected to the tractor by a 'Dowty' coupling.

*Drawbar* - The drill should be connected to a fixed clevis type drawbar with a good condition drawbar pin secured with a linch pin.

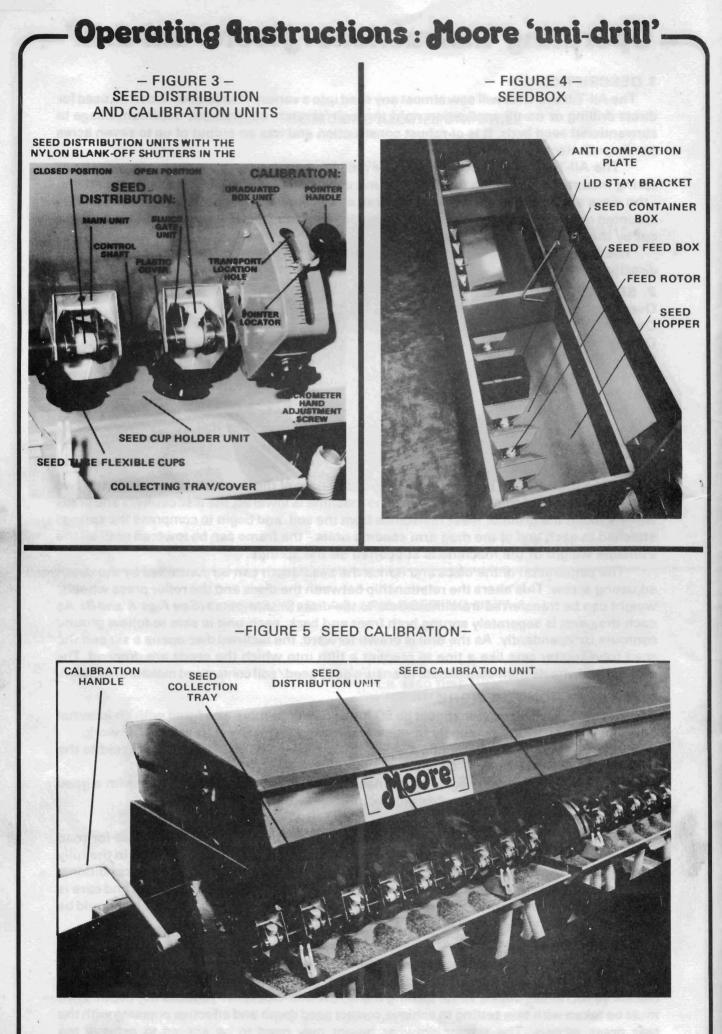
#### 5. TRANSPORT

The drill is raised and lowered hydraulically and locking pins are provided for road transport. When the drill is in work the tractor hydraulic control valve should be in the fully floating position so that the road wheels may ride freely over undulating ground conditions.

It should be remembered that the drill is 9ft.8½in., (2960mm) wide overall and care is needed when travelling on public roads. An advised maximum speed of 20 m.p.h., should be observed in absence of a drill braking system.

#### 6. DEPTH CONTROL

This is achieved by turning the depth adjusting screw to raise or lower the discs to the required depth in different field conditions and seed requirements; turning the screw clockwise increases depth, while turning the screw anti-clockwise reduces the depth. Care must be taken with this setting to achieve correct seed depth and effective pressing with the rear press wheels. The tractor drawbar height may need to be altered to achieve the necessary result.



### **Operating Anstructions : Moore 'uni-drill'-**

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 discs 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.

#### 7. SEEDBOX (See Figs. 3 and 4)

Each seed distribution unit of the Moore All-Till Uni-Drill is supplied with seed from the hopper by means of a seed feed box. The variable opening of the distribution unit regulates the seed rate. At the lowest part of the feeding box, a plastic feed rotor, operated by the stalker drive wheel, supplies the distribution unit with seed at a high degree of uniformity. Made of flexible plastic (Lucolen) the feed rotor is adapted to, and fits the shape of all kinds of seed: large or small, heavy or light, round or long. An anti-compaction plate can be fitted over the seed feed boxes to give less damage to the larger, more easily damaged seeds such as soya beans or peas.

A micrometer hand control screw is used to adjust the openings of the seed distribution units for precise seed rate settings.

#### 8. SEEDING AT DIFFERENT ROW WIDTHS

It is possible to sow seeds at row widths of 6½in.,(16.5cms.), 13in.,(33cms.), 19½ins., (49.5cms.), and 26ins.,(66cms.).

Blank off the seeding units not required by turning the nylon blank off shutters to close the openings of the seed distribution units, as shown in Fig. 3.

For small seeds, such as kale, rape, turnips etc., seed container boxes can be securely mounted over the required seed feed boxes as shown in Fig. 4.

For transportation or moving the drill from field to field, all the distribution units can be closed by pushing the pointer handle to the top of the graduation scale. It can be locked in this position by dropping the locator into the tansport location hole.

#### 9. EMPTYING SEEDBOX (See Fig. 6)

To empty the seedbox, remove the collection tray/covers. Release the seed cup holder unit and slide it fully forward. Slacken the screw and channel retaining bracket so that the seedbox fixing arm is free. Open the seedbox lid and secure with the stay bracket. Pivot the seedbox backwards as shown in Fig. 6. Open the seed hopper emptying chute and remove the seed into a tray or bag.

#### **10. ACREMETER**

The acremeter is actuated by a linkarm attached to the end of the double drive sprocket. The adjustable arm on the end of the meter should be positioned so that the linkarm is free when the end of the crank is at the top of its stroke.

The acremeter is calibrated so that it takes 1000 actuations to read 1 acre, therefore, only the first 3 digits read the acres and the last 2 digits the decimal fraction of an acre.

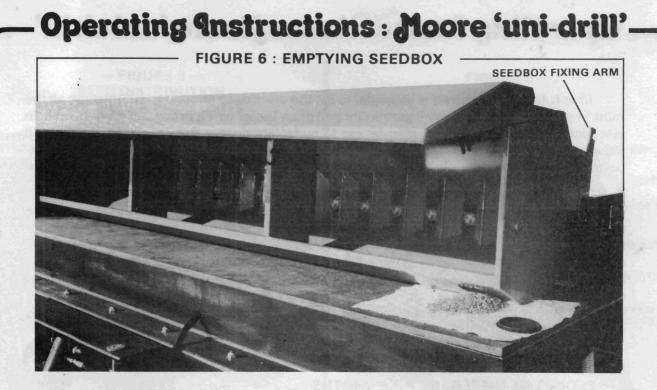
The acremeter can be set to Zero by turning the ribbed knob on the end of the meter.

#### 11. CALIBRATION (See Figs. 5 and 7)

The Seed Charts are not a guarantee of the correct amount of seed to be sown - use them only as a guide to the seed quantities required. Compilation of a Seed Rate Chart is not possible due to variations in seed types and seed mixtures.

To check the Seed Rate, set the calibration pointer to the reading as given in the Seeding Tables: open the covers protecting the distribution units and hinge them down to form collection trays for the seeds. Release the spring loaded locating pins at each end of seed cup holder unit and slide it forward so that the seed collection trays are underneath the outlets of the the seed distribution units.

Partially fill the seedbox and actuate the acremeter 100 times(60 turns of the handle when attached to the 15-tooth seedbox drive sprocket; or 43 turns of the handle when attached to the 21-tooth seedbox drive sprocket), remove the collection trays and weigh the seed: this will represent the seed rate for one-tenth of an acre. Multiply by 10 to obtain the Seed Rate Per Acre. By adjusting the micrometer control screw the rate can be varied and the desired Seed Rate obtained.



#### FIGURE 7 : APPROXIMATE SEEDING RATES FOR MOORE ALL-TILL UNI-DRILL.

CALIFORATION	SOWING RATE Lbs/Acre						
CALIBRATION SCALE READING	ITALIAN RYEGRASS (COARSE)	GRASS SEEDS MIXTURE (FINE)	CEREALS WHEAT, BARLEY, OATS, RYE.	LARGE SEEDS PEAS, SOYA BEANS	SMALL SEEDS TURNIPS,KALE RAPE,ALFAFA		
1	- And Sanda				2		
11/2	CIUS CHILLS	SIGHT OF BERT		1. 1997 3.	4		
2		SECOND CONTRACT	OL POLICI CIUNIS		8		
3	ALL AND				16		
4	·	and a state of	1 to a to be had	u vaserili	26		
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9		25	70	and the second			
10	7	32	90				
11	9	40	110	75			
12	12	50	130	90			
13	15	60	160	110			
14	18	· 72	190	140			
15	22	85	220	170	Sector Contraction		
16	26		250	200			
17	31	Sale of the	300	240			
18	36		Υ.				
19	41						
20	48	The second second	Second Second				
21	56						
22	65						

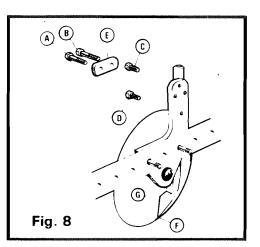
**NOTE**: This Seed Chart is not a guarantee of the correct amount of seed to be sown - use it only as a guide for the seed quantities required.

Correct seed rates can be obtained by actuating the Acremeter 100 times (43 turns of the handle when attached to the 21-tooth seed box drive sprocket) and weighing the seeds in the Collection Trays provided. The weight of the seed is equivalent to that used to sow one tenth of an acre. By adjusting the Micrometer Control Screw, the Seed Rate can be varied and the desired Seed Rate obtained.

## **Operating Anstructions : Moore 'uni-drill'**

### 12. THE SEED TUBE COULTER ADJUSTMENT (See Fig. 8)

The tip F, of the seed tube coulter should be set so that it is approximately  $\frac{1}{2}$ " 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. This can be achieved by means of the retaining bolts A and B and the adjusting screws C and D. If the tip, F, 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, G 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 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 closer to the disc.

To obtain better depth control for small seeds, e.g. oilseed, rape, turnips etc., in loose or cultivated soil it may be necessary to lower the tip of the seed tube coulter almost to the edge of the disc.

#### NOTE: Taper Roller Bearing Adjustment

Timkin Duo-Seal Taper Roller Bearings are fitted to both the discs and the press wheel rollers. If the bearings become slack due to wear etc., it may be necessary to re-adjust them - remove the dust cover and tighten up the coneloc nut (%" UNF) until it is completely tight, then slacken off so that the bearing can turn freely. The bearings are packed with Shell Alvania Grease.

#### **13. OPERATION**

Attach the drill to the tractor and raise the drill to its maximum height, remove the road transport pins.

Calibrate the seeding mechanism. Set the drilling depth and drill the headlands; it is wise to drill in an anti-clockwise direction to avoid the risk of damage to the stalker wheel. Check seeding depth once operating into the field as the headlands tend to be more compacted than the remainder of the field.

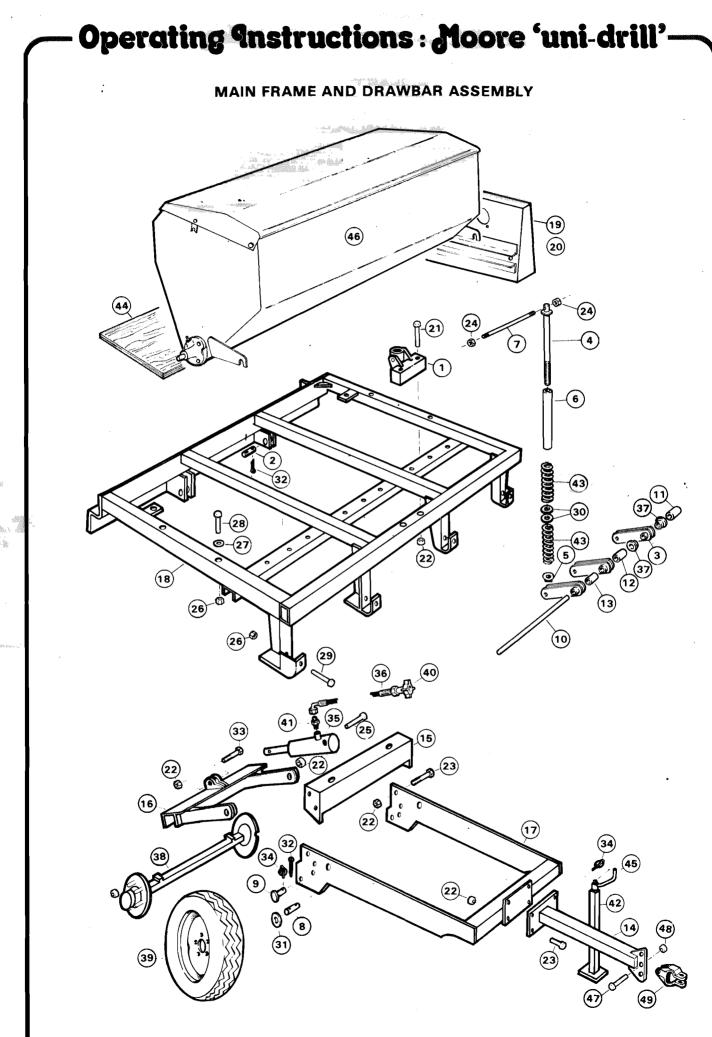
Do not turn sharp corners with The All-Till Uni-Drill in operation as this will give wrong disc-to-soil side thrust. When this happens the disc is parted from the seed coulter and trash can then enter between them resulting in blockage to the seed flow. It is better to lift the machine out of and into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

Work rates of up to 7 acres per hour can be obtained. 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 conditions vary, it may be necessary to adjust the coulter settings to maintain seed depth and cover.

The drill will work equally well in cultivated soil - here 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. A higher drawbar hitch point may be required. The soil is usually tracked to the depth required by the disc seeding units and compacted by the press wheel rollers - this gives ideal conditions for seed germination. In some fields it may be necessary to roll first, especially if there are loose stones on the surface; this helps to prevent blockages.

All nuts and bolts should be checked regularly. When working in stony or trashy conditions it will be necessary to check all nuts and bolts daily, particularly the seed coulters and disc bolts.

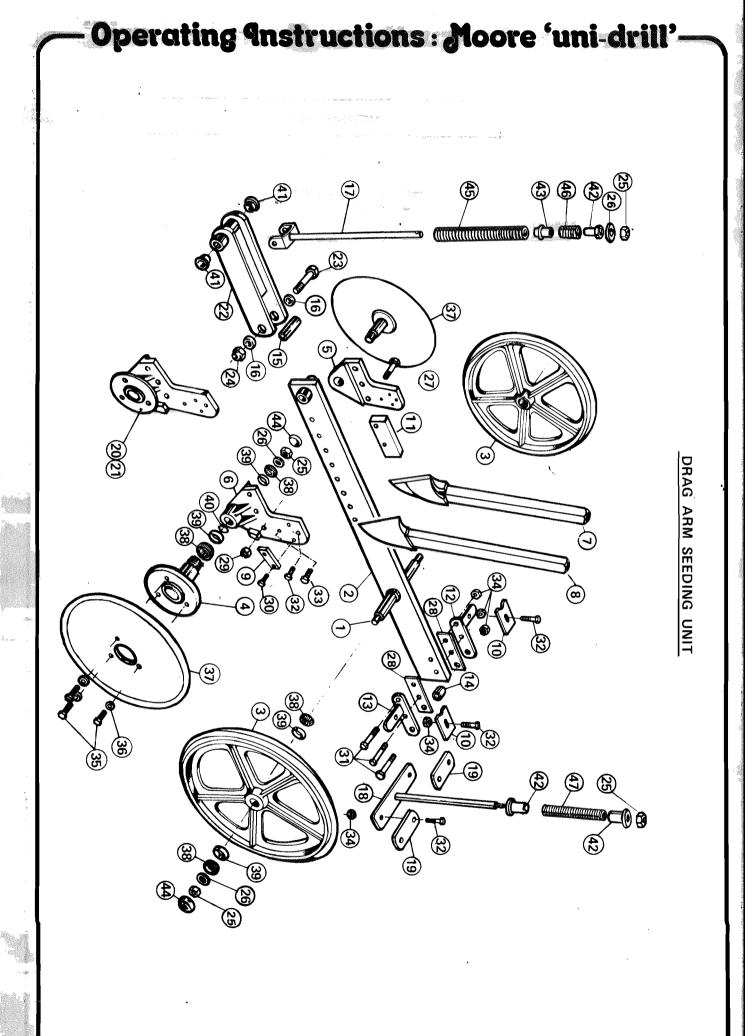
When moving the All-Till Uni-Drill between sites ensure that the road transport pins



## Operating Anstructions : Moore 'uni-drill'

2       1001-17       Drawbar Pivot Pin       2         3       1001-23       Pivoting Arm Unit       4         4       1001-34       Depth Control Nut       5         5       1001-35       Depth Control Hut       5         6       1001-36       Depth Control Hundle       7         7       1001-37       Depth Control Hundle       7         9       1001-63       Transport Pin - All-Till       7         10       1001-64       Pivot Bar - Front       1         10       1001-65       Spacer Bush - Inner       0         13       1001-67       Spacer Bush - Inner Bushed       1         14       1001-72       Draw Bar - Faving Arm       0         15       1001-71       Draw Bar - Raercoss Member       1         16       1001-72       Draw Bar - Axte Mounting Unit       1         17       1001-73       Main Frame Assembly       1         18       1001-75       Main Frame Assembly       1         20       1003-70       Seedbox Mounting Bracket - L.H.       1         21       B1       M20 x 220 Bolt       1 </th <th>NTITY</th>	NTITY
2       1001-17       Drawbar Pivot Pin       1         3       1001-23       Pepth Control Screw       5         5       1001-36       Depth Control Nut       5         6       1001-37       Depth Control Handle       7         7       1001-37       Depth Control Handle       7         8       1001-62       Axle Unit - Pivot Pin       7         9       1001-63       Transport Pin - All-Till       7         10       1001-64       Pivot Bar - Front       7         11       1001-66       Spacer Bush - Inner       6         13       1001-67       Spacer Bush - Inner       6         14       1001-72       Draw Bar - Towing Arm       7         15       1001-71       Draw Bar - Rearcoss Member       7         16       1001-72       Draw Bar - Axle Mounting Unit       7         17       1001-73       Main Frame Assembly       8         18       1001-75       Seedbox Mounting Bracket - R.H.       2         20       1003-70       Seedbox Mounting Bracket - L.H.       1         21       B1       M20 x 65 Bolt	
2       1001-17       Drawbar Pivot Pin       2         3       1001-23       Pivoting Arm Unit       4         4       1001-34       Depth Control Screw       5         5       1001-35       Depth Control Hut       5         6       1001-36       Depth Control Handle       7         7       1001-37       Depth Control Handle       7         8       1001-63       Transport Pin - All-Till       7         10       1001-64       Pivot Bar - Front       7         11       1001-66       Spacer Bush - Inner Bushed       7         12       1001-66       Spacer Bush - Inner Bushed       7         13       1001-67       Spacer Bush - Inner Bushed       7         14       1001-72       Draw Bar - Towing Arm       7         15       1001-71       Draw Bar - Rearcoss Member       7         16       1001-72       Draw Bar - Rearcoss Member       7         17       1002-75       Seedbox Mounting Bracket - R.H.       20         1003-70       Seedbox Mounting Bracket - L.H.       10       22         18       1020 x120 Slot	1
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4     1001-34     Depth Control Screw       5     1001-35     Depth Control Nut       6     1001-36     Depth Control Handle       7     1001-37     Depth Control Handle       8     1001-62     Aske Unit - Pixot Pin       9     1001-63     Transport Pin - All-Till       10     1001-64     Pixot Bar - Front       11     1001-67     Spacer Bush - Inner       12     1001-66     Spacer Bush - Inner       13     1001-67     Draw Bar - Towing Arm       14     1001-72     Draw Bar - Towing Arm       15     1001-71     Draw Bar - Rearcoss Member       16     1001-72     Draw Bar - Rearcoss Member       17     1001-73     Draw Bar - Rearcoss Member       18     1001-75     Main Frame Assembly       19     1003-70     Seedbox Mounting Bracket - R.H.       20     1003-71     Seedbox Mounting Bracket - L.H.       21     B1     M20 × 20 Bolt       22     B2     M20 Nut Coneloc       23     B7     M20 × 20 Bolt       24     B10     W1 Nut Coneloc       25	9
5       1001-35       Depth Control Nut         6       1001-36       Depth Control Handle         7       1001-37       Depth Control Handle         8       1001-62       Axle Unit - Pivot Pin         9       1001-63       Transport Pin - All -Till         10       1001-64       Pivot Bar - Front         11       1001-65       Spacer Bush - Inner Bushed         12       1001-67       Spacer Bush - Inner         13       1001-67       Draw Bar - Towing Arm         14       1001-70       Draw Bar - Axle Mounting Unit         17       1001-73       Draw Bar - Axle Mounting Unit         18       1001-72       Draw Bar - Axle Mounting Unit         19       1003-70       Seedbox Mounting Bracket - R.H.         20       1003-71       Seedbox Mounting Bracket - L.H.         21       B1       M20 x 220 Bolt       12         22       B2       M20 Nut Coneloc       12         23       B7       M20 x 180 Bolt Special H.T.       14         24       B10       50 Washer H.D.       25         25       B12       M20 x 100 Bolt Special H.T.	-
6       1001-36       Depth Control Tube         7       1001-37       Depth Control Handle         8       1001-62       Arke Unit - Pivot Pin         9       1001-63       Transport Pin - All-Till         10       1001-64       Pivot Bar - Front         11       1001-66       Spacer Bush - Inner Bushed         12       1001-66       Spacer Bush - Inner Bushed         13       1001-67       Draw Bar - Towing Arm         14       1001-71       Draw Bar - Nake Mounting Unit         17       1001-73       Drawbar Assembly         18       1001-75       Main Frame Assembly         19       1003-70       Seedbox Mounting Bracket - R.H.         20       1003-71       Seedbox Mounting Bracket - L.H.         21       B1       M20 x 220 Bolt       1         22       B2       M20 Nut Coneloc       1         23       B7       M20 x 180 Bolt Special H.T.       1         24       B10       ½ UNF Nut Conloc       1         25       B12       M20 x 180 Bolt Special H.T.       1         26       B15       M12 x 140 Bolt       1	1
7     1001-37     Depth Control Handle       8     1001-62     Axle Unit - Pivot Pin     2       9     1001-63     Transport Pin - All - Till     2       10     1001-64     Pivot Bar - Front     2       11     1001-65     Spacer Bush - End     2       12     1001-66     Spacer Bush - Inner     2       13     1001-77     Spacer Bush - Inner     2       14     1001-70     Draw Bar - Towing Arm     2       15     1001-71     Draw Bar - Asle Mounting Unit     2       17     1001-73     Drawbar Assembly     3       18     1001-72     Draw Bar - Male Mounting Unit     2       19     1003-70     Seedbox Mounting Bracket - R.H.     2       20     1003-71     Seedbox Mounting Bracket - L.H.     2       21     B1     M20 x 20 Bolt     3     3       22     B2     M20 x 180 Bolt Special H.T.     4     3       23     B7     M12 x 140 Bolt     4     4       24     B10     W12 x 100 Bolt     4     4       25     B12     M20	1
8       1001-62       Axle Unit - Pivot Pin       1         9       1001-63       Transport Pin - All-Till       1         10       1001-63       Transport Pin - All-Till       1         11       1001-65       Spacer Bush - End       1         12       1001-66       Spacer Bush - Inner Bushed       1         13       1001-67       Spacer Bush - Inner       0         14       1001-70       Draw Bar - Towing Arm       1         15       1001-71       Draw Bar - Asie Mounting Unit       1         17       1001-73       Draw Bar - Asie Mounting Bracket - R.H.       20         1003-70       Seedbox Mounting Bracket - L.H.       1       20         1003-70       Seedbox Mounting Bracket - L.H.       1       21         18       1001-75       Main Frame Assembly       1         20       1003-70       Seedbox Mounting Bracket - L.H.       1         21       B1       M20 x 220 Bolt       1       1         22       B2       M20 x 180 Bolt Special H.T.       1       1         23       B7       M20 x 180 Bolt Special H.T.       1       1 <td>1</td>	1
9       1001-63       Transport Pin - All -Till       2         10       1001-64       Pivot Bar - Front       1         11       1001-65       Spacer Bush - Inner Bushed       2         12       1001-66       Spacer Bush - Inner       2         13       1001-67       Spacer Bush - Inner       2         14       1001-70       Draw Bar - Towing Arm       2         16       1001-72       Draw Bar - Axie Mounting Unit       1         17       1001-75       Main Frame Assembly       2         18       1001-75       Main Frame Assembly       2         19       1003-70       Seedbox Mounting Bracket - R.H.       2         20       1003-71       Seedbox Mounting Bracket - L.H.       2         21       B1       M20 × 65 Bolt       2         22       B2       M20 Nut Conloc       1         23       B7       M20 × 180 Bolt Special H.T.       2         24       B10       ½ × 110 Bolt       2       2         25       B12       M20 × 180 Bolt Special H.T.       2         26       B17       M12 × 140 Bolt	2
10       1001-64       Pivot Bar - Front         11       1001-65       Spacer Bush - End         12       1001-66       Spacer Bush - Inner Bushed         13       1001-67       Spacer Bush - Inner         14       1001-70       Draw Bar - Towing Arm         15       1001-71       Draw Bar - Axle Mounting Unit         17       1001-72       Draw Bar - Axle Mounting Unit         18       1001-75       Main Frame Assembly         18       1001-75       Seedbox Mounting Bracket - R.H.         20       1003-70       Seedbox Mounting Bracket - R.H.         21       B1       M20 x220 Bolt       11         22       B2       M20 Nut Conloc       11         23       B7       M20 x65 Bolt       11         24       B10       % UNF Nut Conloc       11         25       B12       M20 x180 Bolt Special H.T.       11         26       B15       M12 x140 Bolt       12         27       B16       M13 x32 Wahser H.D.       12         28       B17       M12 x 100 Bolt       14         30       B58       2"Tinken Thrust	2
11     1001*65     Spacer Bush - End     2       12     1001-66     Spacer Bush - Inner Bushed     2       13     1001-67     Spacer Bush - Inner Bushed     2       14     1001-70     Draw Bar - Towing Arm     0       15     1001-71     Draw Bar - Axte Mounting Unit     1       16     1001-72     Draw Bar - Axte Mounting Unit     1       17     1001-73     Draw Bar - Axte Mounting Unit     1       18     1001-75     Main Frame Assembly     1       19     1003-70     Seedbox Mounting Bracket - R.H.     2       20     1003-71     Seedbox Mounting Bracket - L.H.     1       21     B1     M20 x 220 Bolt     1     1       22     B2     M20 Nut Conloc     1     1       23     B7     M20 x 180 Bolt Special H.T.     1     1       26     B12     M20 x 100 Bolt     1     1       27     B16     M13 x 10 Washer H.D.     2     1       28     B17     M12 x 100 Bolt     1     1       29     B19     M12 x 100 Bolt     1     1	
12     1001-66     Spacer Bush - Inner Bushed     2       13     1001-67     Spacer Bush - Inner     6       14     1001-70     Draw Bar - Towing Arm     6       15     1001-71     Draw Bar - Rearcross Member     6       16     1001-72     Draw Bar - Axle Mounting Unit     7       17     1001-73     Drawbar Assembly     7       18     1001-75     Mein Frame Assembly     7       19     1003-70     Seedbox Mounting Bracket - R.H.     7       20     1003-71     Seedbox Mounting Bracket - L.H.     7       21     B1     M20 x 220 Boit     7       22     B2     M20 Nut Coneloc     7       23     B7     M20 x 65 Boit     7       24     B10     % UNF Nut Conloc     7       25     B12     M22 x 180 Boit Special H.T.     7       26     B15     M12 x 100 Boit     7       29     B19     M12 x 100 Boit     7       30     B58     2" Timken Thrust Bearing     7       31     B40     M32 x 60 Washer H.D.     7       32 </td <td>2</td>	2
13       1001-67       Spacer Bush - Inner       4         14       1001-70       Draw Bar - Towing Arm       1         15       1001-71       Draw Bar - Nearcross Member       1         16       1001-72       Draw Bar - Axie Mounting Unit       1         17       1001-73       Drawbar - Axie Mounting Unit       1         18       1001-75       Main Frame Assembly       1         19       1003-70       Seedbox Mounting Bracket - R.H.       1         20       1003-71       Seedbox Mounting Bracket - L.H.       1         21       B1       M20 x 20 Bolt       1       1         22       B2       M20 Nut Coneloc       1       1         23       B7       M20 x 160 Bolt Special H.T.       1       1         24       B10       ½ UNF Nut Coneloc       1       1       1         25       B12       M12 x 140 Bolt       2       1       2         28       B17       M12 x 140 Bolt       2       1       2         30       B58       2" Timken Thrust Bearing       1       3       1       2	2
14     1001-70     Draw Bar - Towing Arm       15     1001-71     Draw Bar - Rearcross Member       16     1001-72     Draw Bar - Asle Mounting Unit       17     1001-73     Drawbar Assembly       18     1001-75     Main Frame Assembly       19     1003-70     Seedbox Mounting Bracket - R.H.       20     1003-71     Seedbox Mounting Bracket - L.H.       21     B1     M20 x 220 Bolt       22     B2     M20 Nut Coneloc       23     B7     M20 x 180 Bolt Special H.T.       26     B15     M12 Nut Conloc       27     B16     M13 x 32 Wahser H.D.       28     B17     M12 x 140 Bolt       29     B19     M12 x 100 Bolt       29     B19     M20 x 100 Bolt       30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     647     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54	
15     1001-71     Draw Bar - Rearcross Member       16     1001-72     Draw Bar - Axle Mounting Unit       17     1001-73     Drawbar Assembly       18     1001-75     Main Frame Assembly       19     1003-70     Seedbox Mounting Bracket - R.H.       20     1003-71     Seedbox Mounting Bracket - L.H.       21     B1     M20 x 220 Bolt     1       22     B2     M20 Nut Coneloc     1       23     B7     M20 x 65 Bolt     1       24     B10     % UNF Nut Conloc     1       25     B12     M20 x 180 Bolt Special H.T.     1       26     B15     M12 Nut Coneloc     1       27     B16     M13 x 32 Wahser H.D.     1       28     B17     M12 x 100 Bolt     1       30     B58     2" Timken Thrust Bearing     1       31     B40     M32 x 60 Washer H.D.     1       32     B43     M6 x 50 Lynch Pin     1       33     B47     M20 x 100 Bolt Special H.T.     1       34     B48     M6 x 50 Lynch Pin     2       35	
16 $1001-72$ DrawBar Axle Mounting Unit       17     1001-73     Drawbar Assembly       18     1001-75     Main Frame Assembly       19     1003-70     Seedbox Mounting Bracket - R.H.       20     1003-71     Seedbox Mounting Bracket - R.H.       21     B1     M20 x 220 Bolt     11       22     B2     M20 Nut Coneloc     11       23     B7     M20 x 180 Bolt Special H.T.     16       24     B10 $\frac{4}{9}$ UNF Nut Conloc     11       25     B12     M20 x 180 Bolt Special H.T.     16       26     B15     M12 Nut Coneloc     11       27     B16     M13 x 32 Wahser H.D.     17       28     B17     M12 x 100 Bolt     16       29     B19     M12 x 100 Bolt     17       30     B58     2" Timken Thrust Bearing     17       31     B40     M32 x 60 Washer H.D.     18       32     B43     M6 x 50 Split Pin     18       33     B47     M20 x 100 Bolt Special H.T.     19       34     B48     M6 x 50 Lynch Pin     19 </td <td></td>	
171001-73Drawbar Assembly181001-75Main Frame Assembly191003-70Seedbox Mounting Bracket - R.H.201003-71Seedbox Mounting Bracket - L.H.21B1M20 x 220 Bolt22B2M20 Nut Coneloc23B7M20 x 65 Bolt24B10 $\frac{1}{2}$ WIP Nut Conloc25B12M20 x 180 Bolt Special H.T.26B15M12 Nut Coneloc27B16M13 x 32 Wahser H.D.28B17M12 x 140 Bolt29B19M12 x 140 Bolt30B582" Timken Thrust Bearing31B40M32 x 60 Washer H.D.32B43M6 x 50 Split Pin33B47M20 x 100 Bolt Special H.T.34B48M6 x 50 Split Pin35B533" Diameter Hydraulic Cylinder All-Till36B54Hydraulic Hose - All-Till37B55 $1\frac{1}{2} x 1\frac{1}{4} x 1\frac{3}{4} F. Oilite Bush38B56Road Wheel Axle - All-Till39B60Road Wheel Axle - All-Till40B68Dowty Coupling41B70\frac{3}{4} "B.S.P. Nipple42B72Parking Jack43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/ Jack Handle46B250Seed Bax Complete - All-Till47B381" x 4" UNC Rolt48B441" UNC Nut Nyloc$	1
18       1001-75       Main Frame Assembly.         19       1003-70       Seedbox Mounting Bracket - R.H.         20       1003-71       Seedbox Mounting Bracket - L.H.         21       B1       M20 x 220 Bolt       1         22       B2       M20 Nut Coneloc       1         23       B7       M20 x 65 Bolt       1         24       B10       % UNF Nut Conloc       1         25       B12       M20 x 180 Bolt Special H.T.       1         26       B15       M12 Nut Coneloc       1         27       B16       M13 x 32 Wahser H.D.       1         28       B17       M12 x 140 Bolt       1         29       B19       M12 x 100 Bolt       1         30       B58       2" Timken Thrust Bearing       1         31       B40       M32 x 60 Washer H.D.       1         32       B43       M6 x 50 Split Pin       1         33       B47       M20 x 100 Bolt Special H.T.       1         34       B48       M6 x 50 Lynch Pin       1         35       B53       3" Diameter Hydraulic Cylinder All-Till	1
19       1003-70       Seedbox Mounting Bracket - R.H.         20       1003-71       Seedbox Mounting Bracket - L.H.         21       B1       M20 x 220 Bolt       1         22       B2       M20 Nut Coneloc       1         23       B7       M20 x 180 Bolt Special H.T.       1         24       B10       % UNF Nut Coneloc       1         25       B12       M20 x 180 Bolt Special H.T.       1         26       B15       M12 x 140 Bolt Special H.T.       1         27       B16       M13 x 32 Wahser H.D.       1         28       B17       M12 x 140 Bolt       1       1         30       B58       2" Timken Thrust Bearing       1       1         31       B40       M32 x 60 Washer H.D.       1       1         32       B43       M6 x 50 Spiit Pin       1       1         33       B47       M20 x 100 Bolt Special H.T.       1       1         34       B48       M6 x 50 Lynch Pin       1       1       1         35       B53       3" Diameter Hydraulic Cylinder All-Till       1       1       1 <td>1</td>	1
20       1003-71       Seedbox Mounting Bracket - L.H.         21       B1       M20 x 220 Bolt       1         22       B2       M20 Nut Coneloc       1         23       B7       M20 x 65 Bolt       1         24       B10       % UNF Nut Conloc       1         25       B12       M20 x 180 Bolt Special H.T.       1         26       B15       M12 x 140 Bolt       2         27       B16       M13 x 32 Wahser H.D.       2         28       B17       M12 x 140 Bolt       2         29       B19       M12 x 100 Bolt       2         30       B58       2" Timken Thrust Bearing       2         31       B40       M32 x 60 Washer H.D.       2         32       B43       M6 x 50 Split Pin       3         33       G47       M20 x 100 Bolt Special H.T.       3         34       B48       M6 x 50 Lynch Pin       3         35       B53       3" Diameter Hydraulic Cylinder All-Till       3         36       B54       Hydraulic Hose - All-Till       3         39       B60       Road	1
21     B1     M20 x 220 Bolt       22     B2     M20 Nut Coneloc     1       23     B7     M20 x 65 Bolt     1       24     B10     % UNF Nut Conloc     1       25     B12     M20 x 180 Bolt Special H.T.     1       26     B15     M12 Nut Coneloc     1       27     B16     M13 x 32 Wahser H.D.     1       28     B17     M12 x 140 Bolt     1       29     B19     M12 x 100 Bolt     1       30     B58     2" Timken Thrust Bearing     1       31     B40     M32 x 60 Washer H.D.     1       32     B43     M6 x 50 Split Pin     1       33     B47     M20 x 100 Bolt Special H.T.     1       34     B48     M6 x 50 Lynch Pin     1       35     B53     3" Diameter Hydraulic Cylinder All-Till     1       36     B54     Hydraulic Hose - All-Till     1       37     B55     1½ x 1¼ K 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     1       39     B60     Road Wheel 750 x 16 x 10	1
22       B2       M20 Nut Coneloc       11         23       B7       M20 x 65 Bolt       11         24       B10       % UNF Nut Conloc       11         25       B12       M20 x 180 Bolt Special H.T.       11         26       B15       M12 Nut Coneloc       11         27       B16       M13 x 32 Wahser H.D.       12         28       B17       M12 x 140 Bolt       12         29       B19       M12 x 100 Bolt       12         30       B58       2" Timken Thrust Bearing       13         31       B40       M32 x 60 Washer H.D.       14         32       B43       M6 x 50 Split Pin       14         33       B47       M20 x 100 Bolt Special H.T.       14         34       B48       M6 x 50 Lynch Pin       15         35       B53       3" Diameter Hydraulic Cylinder All-Till       14         36       B54       Hydraulic Hose - All-Till       14         37       B55       1½ x 1¼ x 1¼ F. Oilite Bush       14         38       B56       Road Wheel Axle - All-Till       14         39<	1
23     B7     M20 x 65 Bolt     4       24     B10     % UNF Nut Conloc     5       25     B12     M20 x 180 Bolt Special H.T.     6       26     B15     M12 Nut Coneloc     6       27     B16     M13 x 32 Wahser H.D.     6       28     B17     M12 x 140 Bolt     7       29     B19     M12 x 100 Bolt     7       30     B58     2" Timken Thrust Bearing     7       31     B40     M32 x 60 Washer H.D.     7       32     B43     M6 x 50 Split Pin     7       33     B47     M20 x 100 Bolt Special H.T.     7       34     B48     M6 x 50 Lynch Pin     7       35     B53     3" Diameter Hydraulic Cylinder All-Till     7       36     B54     Hydraulic Hose - All-Till     7       39     B60     Road Wheel 750 x 16 x 10 Ply     7       40     B68     Dowty Coupling     7       41     B70     %" B.S.P. Nipple     7       42     B72     Parking Jack     7       43     B91     Depth Control Sprin	2
24     B10     % UNF Nut Conloc       25     B12     M20 x 180 Bolt Special H.T.       26     B15     M12 Nut Coneloc       27     B16     M13 x 32 Wahser H.D.       28     B17     M12 x 140 Bolt       29     B19     M12 x 100 Bolt       30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till       39     B60     Road Wheel Axle - All-Till       40     B68     Dowty Coupling       41     B70     ¾" B.S.P. Nipple       42     872     Parking Jack       43     B91     Depth Control Spring       44     B105     Rear Platform - All-Till       45     B209     Calibr	
25     B12     M20 x 180 Bolt Special H.T.       26     B15     M12 Nut Coneloc     A       27     B16     M13 x 32 Wahser H.D.     A       28     B17     M12 x 140 Bolt     A       29     B19     M12 x 140 Bolt     A       30     B58     2" Timken Thrust Bearing     A       31     B40     M32 x 60 Washer H.D.     A       32     B43     M6 x 50 Split Pin     A       33     B47     M20 x 100 Bolt Special H.T.     A       34     B48     M6 x 50 Lynch Pin     A       35     B53     3" Diameter Hydraulic Cylinder All-Till     A       36     B54     Hydraulic Hose - All-Till     A       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     A       39     B60     Road Wheel 750 x 16 x 10 Ply     A       40     B68     Dowty Coupling     A       41     B70     ¾" B.S.P. Nipple     A       42     B72     Parking Jack     A       43     B91     Depth Cont	8
26     B15     M12 Nut Coneloc     1       27     B16     M13 x 32 Wahser H.D.     1       28     B17     M12 x 140 Bolt     1       29     B19     M12 x 100 Bolt     1       30     B58     2" Timken Thrust Bearing     1       31     B40     M32 x 60 Washer H.D.     1       32     B43     M6 x 50 Split Pin     1       33     B47     M20 x 100 Bolt Special H.T.     1       34     B48     M6 x 50 Lynch Pin     1       35     B53     3" Diameter Hydraulic Cylinder All-Till     1       36     B54     Hydraulic Hose - All-Till     1       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     1       39     B60     Road Wheel 750 x 16 x 10 Ply     1       40     B68     Dowty Coupling     1       41     B70     ¾" B.S.P. Nipple     1       42     B72     Parking Jack     1       43     B91     Depth Control Spring     1       44     B105 <td< td=""><td>2</td></td<>	2
27     B16     M13 x 32 Wahser H.D.       28     B17     M12 x 140 Bolt       29     B19     M12 x 100 Bolt       30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¼ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel Axle - All-Till     24       40     B68     Dowty Coupling     41       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     45       45     B209     Calibration/Jack Handle     46       46     B250     Seed Box Complete - All-Till </td <td>1</td>	1
28     B17     M12 x 140 Bolt       29     B19     M12 x 100 Bolt       30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel Axle - All-Till     24       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     24       45     B209     Calibration/Jack Handle     25       46     B250     Seed Box Complete - All-Till     47       48     B44     1" UNC Nut Nyloc     48     1" UNC Nut Nyloc	8
29     B19     M12 x 100 Bolt       30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel 750 x 16 x 10 Ply     24       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     24       45     B209     Calibration/ Jack Handle     24       46     B250     Seed Box Complete - All-Till     47       48     B44     1" UNC Nut Nyloc     48     B44     1" UNC Nut Nyloc	4
30     B58     2" Timken Thrust Bearing       31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     34       39     B60     Road Wheel 750 x 16 x 10 Ply     34       41     B70     ¾" B.S.P. Nipple     34       42     B72     Parking Jack     34       43     B91     Depth Control Spring     34       44     B105     Rear Platform - All-Till     35       45     B209     Calibration/Jack Handle     36       46     B250     Seed Box Complete - All-Till     37       47     B38     1" x 4" UNC Bolt     38       48     B44     1" UNC Nut Nyloc     37	4
31     B40     M32 x 60 Washer H.D.       32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     39       39     B60     Road Wheel 750 x 16 x 10 Ply     34       41     B70     ¾" B.S.P. Nipple     34       42     B72     Parking Jack     34       43     B91     Depth Control Spring     34       44     B105     Rear Platform - All-Till     35       45     B209     Calibration/Jack Handle     36       46     B250     Seed Box Complete - All-Till     37       47     B38     1" x 4" UNC Bolt     38       48     B44     1" UNC Nut Nyloc     37	4
32     B43     M6 x 50 Split Pin       33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel 750 x 16 x 10 Ply     24       40     B68     Dowty Coupling     24       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     24       45     B209     Calibration/Jack Handle     25       46     B250     Seed Box Complete - All-Till     47       48     B44     1" UNC Nut Nyloc     37	2.
33     B47     M20 x 100 Bolt Special H.T.       34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel 750 x 16 x 10 Ply     24       40     B68     Dowty Coupling     24       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     24       45     B209     Calibration/ Jack Handle     25       46     B250     Seed Box Complete - All-Till     47       48     B44     1" UNC Nut Nyloc     48     B44	4
34     B48     M6 x 50 Lynch Pin       35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     39       39     B60     Road Wheel 750 x 16 x 10 Ply     24       40     B68     Dowty Coupling     34       41     B70     ¾" B.S.P. Nipple     34       42     B72     Parking Jack     35       43     B91     Depth Control Spring     35       44     B105     Rear Platform - All-Till     36       45     B209     Calibration/ Jack Handle     36       46     B250     Seed Box Complete - All-Till     36       47     B38     1" x 4" UNC Bolt     37       48     B44     1" UNC Nut Nyloc     37	6
35     B53     3" Diameter Hydraulic Cylinder All-Till       36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     39       39     B60     Road Wheel 750 x 16 x 10 Ply     36       40     B68     Dowty Coupling     36       41     B70     ¾" B.S.P. Nipple     36       42     B72     Parking Jack     36       43     B91     Depth Control Spring     37       44     B105     Rear Platform - All-Till     37       45     B209     Calibration/Jack Handle     37       46     B250     Seed Box Complete - All-Till     37       48     B44     1" UNC Nut Nyloc     37	1
36     B54     Hydraulic Hose - All-Till       37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     24       39     B60     Road Wheel 750 x 16 x 10 Ply     24       40     B68     Dowty Coupling     24       41     B70     ¾" B.S.P. Nipple     24       42     B72     Parking Jack     24       43     B91     Depth Control Spring     24       44     B105     Rear Platform - All-Till     24       45     B209     Calibration/ Jack Handle     250       46     B250     Seed Box Complete - All-Till     47       48     B44     1" UNC Nut Nyloc     48	5
37     B55     1½ x 1¼ x 1¾ F. Oilite Bush     24       38     B56     Road Wheel Axle - All-Till     39       39     B60     Road Wheel 750 x 16 x 10 Ply     36       40     B68     Dowty Coupling     36       41     B70     ¾ " B.S.P. Nipple     36       42     B72     Parking Jack     37       43     B91     Depth Control Spring     37       44     B105     Rear Platform - All-Till     37       45     B209     Calibration/ Jack Handle     37       46     B250     Seed Box Complete - All-Till     37       47     B38     1" x 4" UNC Bolt     38       48     B44     1" UNC Nut Nyloc     37	1
38       B56       Road Wheel Axle - All-Till         39       B60       Road Wheel 750 x 16 x 10 Ply         40       B68       Dowty Coupling         41       B70       ¾" B.S.P. Nipple         42       B72       Parking Jack         43       B91       Depth Control Spring         44       B105       Rear Platform - All-Till         45       B209       Calibration/Jack Handle         46       B250       Seed Box Complete - All-Till         47       B38       1" x 4" UNC Bolt         48       B44       1" UNC Nut Nyloc	1
39       B60       Road Wheel 750 x 16 x 10 Ply         40       B68       Dowty Coupling         41       B70       ¾" B.S.P. Nipple         42       B72       Parking Jack         43       B91       Depth Control Spring         44       B105       Rear Platform - All-Till         45       B209       Calibration/Jack Handle         46       B250       Seed Box Complete - All-Till         47       B38       1" x 4" UNC Bolt         48       B44       1" UNC Nut Nyloc	4
40B68Dowty Coupling41B70¾" B.S.P. Nipple42B72Parking Jack43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	1
41B70¾" B.S.P. Nipple42B72Parking Jack43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	2
42B72Parking Jack43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	1
43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	1
43B91Depth Control Spring44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	1
44B105Rear Platform - All-Till45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	2
45B209Calibration/Jack Handle46B250Seed Box Complete - All-Till47B381" x 4" UNC Bolt48B441" UNC Nut Nyloc	1
46       B250       Seed Box Complete - All-Till         47       B38       1" x 4" UNC Bolt         48       B44       1" UNC Nut Nyloc	1
47       B38       1" x 4" UNC Bolt         48       B44       1" UNC Nut Nyloc	1
48 B44 1" UNC Nut Nyloc	1
	1
49 B185 Clevis Hitch	1

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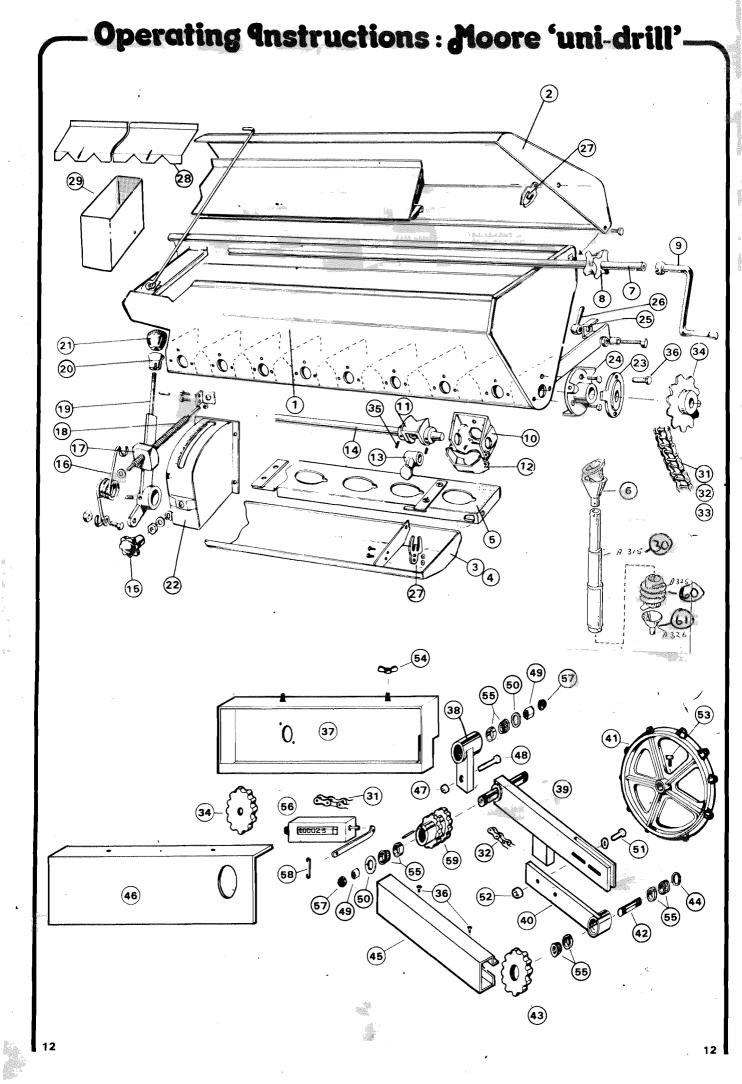


## Operating Instructions : Moore 'uni-drill'

#### DRAGARM ARM SEEDING UNIT

ТЕМ	PART NUMBER	DESCRIPTION	QUANTITY
1	1002-50	Drag Arm Axle -All Till	1
2	1002-51	Drag Arm Mounting Bar -AllTill	1
3	1002-31	Press Wheel	2
4	1002-4	Disc Hub	2
5	1002-31	Disc Mounting Bracket – R.H.	1
6	1002-32	Disc Mounting Bracket – L.H.	1
7	1002-7	Seed Tube Coulter – R.H.	1
8	1002-8	Seed Tube Coulter - L.H.	1
9	1002-9	Seed Coulter Retaining Plate	2
10	1002-10	Press Wheel Scraper	2
11	1002-53	Disc Mounting Bracket-Spacer- All Till	18
12	1002-54	Scraper Support Unit - R.H All Till	1
13	1002-55	Scraper Support Unit – L.H. All Till	1
14	1002-14	Scraper Support Distance Piece	1
15	1002-15	Pivot Sleeve	1
16	1002-16	Pivot Sleeve Bush	2
17	1002-17	Front Pivot Spring Arm	1
18	1002-18	Rear Support Unit	1
19	1002 - 52	Rear Support Unit Link -All Till	1
20	1002-28	Disc Bearing Replacement Unit – R.H.	1
21	1002-29	Disc Bearing Replacement Unit L.H.	1
22	1001-23	Pivot Arm Unit	1
23	B4	Bolt – ¾″ x 4½″ UNC	1
24	B8	Nyloc Nut - ¾″ UNC	1
25	B10	Coneloc Nut – 5/8" UNF	6
26	B11	Washer — 5/8'' H.D.	6
27	B 14	Bolt – M12 × 55	4
28	B-103	Nylon Wear Pad	2 ·
29	B15	Coneloc Nut – M12	4
30	B22	Bolt – M10 x 65	4
31	B23	Bolt – M10 x 55	3
32	B24	Set Screw – M10 × 30	6
33	B25	Set Screw – M10 x 20	2
34	B27	Coneloc Nut — M10	7
35	B32	Set Screw - 3/8'' x 5/8'' UNF	3
36	B33	Shakeproof Washer — 3/8''	3
37	B50	Seed Disc Coulter 141/2" Dia.	2
38	B51	Timkin 1" Bearing Cone Complete Unit	8
39	B51	timkin 1" Bearing Cup	
40	B52	Bearing Circlip	6
41	B55	Pivot Arm Bush	2
42	B88	Spring Retaining Bush	3
43	B89	Spring Locating Bush	1
44	B90	Dust Cap	4
45	B92	Front Spring — Lower	1
46	В93	Front Spring – Upper	1
47	B95	Rear Spring H.D. All Till	1 1

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## Operating Instructions : Moore 'uni-drill'

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ITEM	PART NUMBER DESCRIPTION		QUANTIT	
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1	DOC 1			
1 2	B251 B252	Seedbox Shell Seed Box Lid	1	
3	B253	Collecting Tray/Cover - R.H.		
4	B254	Collecting Tray/Cover - L.H.	l i	
5	B255	Seed Cup Holder Unit	1	
6	B206	Seed Cup Holder	18	
7 8	B257	Rotor Drive Shaft	1	
8 9	B208 B209	Rotor Feed Propellor Callibration/Jack Handle	18	
10	B210	Distribution - Main Unit	18	
11	B211	Distribution - Sluice Gate Unit	18	
12	B212	Distribution - Plactic Cover	18	
13	B213	Distribution - Nylon Shutter	18	
14 15	B256	Distribution - Shaft		
15 16	B215 B216	Callibration - Hand Adjustment Screw		
17	B210 B217	Callibration - Spring Callibration Adjuster Nut		
18	B218	Callibration - Screw Thread		
19	B219	Callibration - Pointer Shaft	1	
20	B220	Callibration - Pointer Locator	1	
21 22	B221	Callibration - Pointer Handle	- 4 × 5 5 1	
22	B222 B223	Callibration - Graduated Box Unit		
23	B223 B224	Seedbox - Pivot Casting Seedbox - Bearing Casting		
25	B225	Seedbox - Channel Retaining Bracket	2	
26	B226	Seedbox - Retaining Screw	2	
27	B227	Seedbox - Nylon Clip	6	
28	B258	Seedbox - Anti-Campaction Plate	2	
29 30	8229 8100 A315	Seedbox - Large Seed Box	9	
30	B175	Flexible Seed Tube - ろイ Drive Chain - Upper All-Till	1	
32	B176	Drive Chain - Lower All-Till	1	
33	B174	Drive Chain - Connecting Link	2	
34	1003-79	Drive Sprocket - 21T	1,	
35 36	B41	Socket Head Screw - M6 x 10	36	
30	B34 1003-71	M8 x 16 Set Screw Seedbox Mounting Bracket - L.H.	6	
38	1003-72	Support Arm Pivot Housing		
39	1003-73	Drive Wheel Support Arm - Upper	1	
40	1003-74	Drive Wheel Support Arm - Lower	1	
41	1003-75	Drive Wheel	1	
42 43	1003-76	Drive Wheel Axle	!	
43 44	1003-77 1003-78	Lower Drive Sprocket - 12T Drive Wheel Spacer		
45	1003-80	Chain Guard - Lower	l i	
46	1003-81	Chain Guard - Upper	1 1	
47	B2	M20 Nut-Coneloc	2	
48	B7	M20 x 65 Bolt	2	
49 50	B10	% UNF Nut-Coneloc	2	
50 51	B11 B14	M16 x 32 Washer - H.D. M12 x 55 Bolt	2	
52 `	B15	M12 Nut-Coneloc	2	
53	B24	M10 x 30 Set Screw	1	
54	B28	M10 Wing Nut	2	
55	B51	1" Timken Taper Roller Bearing	4	
56 57	B78	Acremeter	1 2	
57 58	B90 B98	Dust Cap Acremeter Linkarm - All-Till		
59	1003-55	Twin Sprocket - 9T	1	
60	AZZS	SEEDTUBE - BELLOWS SEEDTUBE - JOINT 25MM	1 18	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
61	A326	CONTING TO 10 2 SMM	18	