



Lely USA, Inc.
Industrial Broadcast Spreaders

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Fax: 800-752-8249 or 641-621-7735

www.lelyusa.com

OPERATOR'S MANUAL

H/L1250/L1500/L2010

MODEL AND SERIAL NUMBER OF YOUR MACHINE

The serial number plate is fitted to the chassis beam at the front of the spreader. In case of correspondence and ordering of spare parts, kindly state the complete serial number of your spreader. **Complete the blanks below with this information to reference when calling.**

MODEL NO. _____

SERIAL NO. _____

DATE PURCHASED _____



TABLE OF CONTENTS	1
PREFACE	2
SAFETY INSTRUCTIONS	3
WARRANTY CONDITIONS	5
1 INTRODUCTION	7
2 MOUNTING BEHIND THE TRACTOR	9
3 TRANSPORT	10
4 MACHINE ADJUSTMENTS	11
4.1 Output rates	11
4.1.1 Working width	11
4.1.2 Setting of output rates	11
4.1.3 Check of output rate	13
4.2 Control	14
4.2.1 Mechanical control	14
4.2.2 Hydraulic control	14
4.2.3 Calibration scale	14
4.3 Fork/arm position	15
4.4 Side/headland spreading	16
4.4.1 Adjustment	16
OUTPUT CHARTS	17-23
5 OPERATING THE MACHINE	24
5.1 Full field operation	25
5.2 Double overlap	25
5.3 Check of spreading width	25
5.4 Check of output rate	26
5.5 Powdery fertilizers	27
5.6 Slag	27
5.7 Seeds	27
6 MAINTENANCE	28
6.1 Maintenance after operation	28
6.2 Lubrication	28
6.3 Change of oil	29
6.4 Safety decals	29
Supplements:	
A CONDENSED OPERATING INSTRUCTIONS	30
B CONDENSED APPLICATION RATES	31
C OPTIONAL EXTRAS	32
D TECHNICAL DETAILS	33
PARTS	Parts 1-12



PREFACE

****You MUST read this manual fully prior to starting work.****

Thank you for your decision to purchase a **Lely Industrial Broadcast Spreader**. The spreader has been designed and built to do the very best job possible under many application circumstances.

This Operator's Manual is meant for personnel that are operating the spreader and are responsible for its daily maintenance. Following it carefully can greatly increase the performance and life of the spreader.

The Dealer is required to confirm that an Operator's Manual is with the spreader. Upon retail sale the Dealer shall review the Operator's Manual and instruct the customer on **SAFE** operation and proper maintenance of the spreader.

Your Dealer is authorized to service the spreader and is required to stock wear parts. If they are unable to help, please go to our web site and find the next closest dealer to you.
www.lelyusa.com, LOCATOR or feel free to contact Lely at 888-245-4684.



Instructions for YOUR SAFETY and/or that of others are marked in the margin by a warning triangle with exclamation mark. These instructions should be observed with particular CARE & ATTENTION.



Instructions which may lead to serious machine damage in case of non-compliance or incorrect use are marked in the margin by an exclamation mark.

The machine described in this manual may contain components which do not form part of the standard equipment but are available as optional extras. This is not made clear in all cases, because standard specifications may differ from country to country.

Furthermore, machines and optional extras may be adjusted to specific regional conditions while they are also subject to continuing research and innovation. For this reason, the specifications of your machine may not be exactly like the pictures in this manual.

Known Worldwide For Accuracy & Dependability ■ www.lelyusa.com

LELY

SAFETY INSTRUCTIONS



NEVER service spreader while in operation. Stop engine, Power Take-Off and moving parts before attempting to service, adjust, clean or lubricate the spreader.

A careful operator is the best operator. Most accidents can and will be avoided by observing all precautions. Read and observe the following precautions before operating this Spreader. It will help PREVENT ACCIDENTS. Spreaders should be operated **only** by those who have read the Owners Manual, and are thus qualified to do so.

- Use the spreader only for the purpose for which it was designed.
- Follow all prevailing safety regulations, including those laid down in this manual and displayed on the spreader decals.
- The spreader should be operated by authorized persons only.
- Keep hands and feet **CLEAR** of unit while in operation.
- Be alert, **OBSERVE** and **OBEY** all safety/warning decals.
- Make sure that ALL safety guards and protective devices are in place.
- Do **NOT** wear loose clothing when operating the Power Take- Off or when near any moving parts.
- Release the pressure in hydraulic systems before starting work on them and before coupling/uncoupling hydraulic hoses.
- Keep other persons **CLEAR** of the dangerous zone or spread area while the spreader is in operation. Be sure that people are kept **WELL AWAY** from the spreader. This is especially important when working along roads and near or on fields that are accessible to the public.
- Always use a tractor with a cab.
- Clear the field of objects that could be thrown up by the spreader.
- Observe the prevailing legislation for public road transport of the spreader.
- Use flashing lights or safety signs, when required.
- Use protective clothing, gloves and safety glasses where required.
- If any liquid or granular chemicals are to be used in combination with this equipment, carefully read and follow all instructions and directions set forth by the manufacturer as stated on the label of the material.
- Clean the safety decals regularly so that they can be read at all times.
- Do not stand or ride on the spreader.
- Use genuine parts only.



CAUTION: STOP THE PTO AND EJECTOR DISC BEFORE LEAVING THE TRACTOR OR VEHICLE TO CHANGE ANY SETTINGS OR FILLING THE SPREADER.



EXPLANATION OF SAFETY DECALS ATTACHED TO THE SPREADER.

- Carefully **read operator's manual** before handling the machine. Observe instructions and **safety rules** when operating.
- Attention! Moving parts.
Stay clear of rotating machine parts.



WARNING



- **NEVER** go near spreader during operation.



CAUTION: STOP THE PTO AND EJECTOR DISC BEFORE LEAVING THE TRACTOR OR VEHICLE TO CHANGE ANY SETTINGS OR FILLING THE SPREADER.

- **Danger** from flying objects. Keep a sufficient, **safe distance** from the machine as long as the tractor motor is running.



NOTICE

1. PTO may have to be shortened to match the tractor.
See Operator's Manual.
2. PTO must be greased every four hours of operation at:
 - A. Universal joints
 - B. Telescoping tubes
 - C. Protective shields
 - D. Shear pin coupling



WARNING

Safety Shield Must Be In Place When PTO Is Turning.



BE ALERT! YOUR SAFETY IS INVOLVED! **LIMITED WARRANTY CONDITIONS**

Lely USA, Inc. (hereinafter "Company") warrants all Lely single disc broadcast spreaders (hereinafter "Spreader") for a period of two (2) years from the date delivered to the original purchaser against defective materials and/or workmanship. Any part or parts of the Spreader that in the Company's judgment shows evidence of such defects, will be repaired or replaced as the Company elects, without charge for parts or labor if the defect appears within the stated time.

****Warranty shall NOT apply if spreader has not been properly registered.**

The **CUSTOMER is SOLELY** responsible for completing the 'Lely Customer Warranty Card' located on the cover of this manual. No postage is required.

A. Unapproved Service & Modification*

All obligations of the Company under this warranty shall be terminated if:

1. Proper service and operation instructions as outlined in the Operator's Manual' are not followed.
*Warranty **SHALL NOT** apply if operating instructions set forth in the manual have not been fully or correctly followed.
2. Equipment is modified or altered in any way not specifically approved by the Company.
*Warranty **SHALL NOT** apply to spreaders that have been 'altered' or 'modified' in any way.
3. Serial number plate has been altered, defaced or removed.
4. Ownership is transferred from the original purchaser to any subsequent owner.

B. Accidents & Normal Maintenance

This warranty covers defective material and workmanship. It does not cover depreciation or damage caused by normal wear, accident, improper maintenance, improper protection, or improper use. The cost of normal maintenance and normal replacement of service items such as grease, oil, tires, tubes, spoons, tines, hoses, etc., shall be paid by the purchaser. Any items considered for warranty, but not manufactured by the Company, will be forwarded by Lely to the original manufacturer for their warranty determination.

C. Warranty Service

To obtain warranty service, the purchaser **MUST** contact their LOCAL authorized Lely Dealer. At the Company's request such parts are to be returned 'prepaid' to Lely USA for inspection and final warranty determination.

**D. No Representation or Implied Warranty**

Neither the Company, nor any company affiliated with Lely, makes any warranties, representation, or promises, expressed or implied, as to the quality or performance of its products other than those set forth above and does not make any implied warranty of merchantability or fitness.

E. Remedies Exclusive

The only remedies the purchaser has in conjunction with the breach, or performance of any warranty on any spreader manufactured by the Company are those set forth above.

F. General

1. The Company reserves the right to make improvements or changes in its equipment at any time without obligation of the Company to install such improvements or changes on equipment previously manufactured by the Company.
2. Neither the Dealer nor the Company personnel have authority to make any representations or promises on behalf of the Company or to modify the terms of limitations in this warranty in any way.
3. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

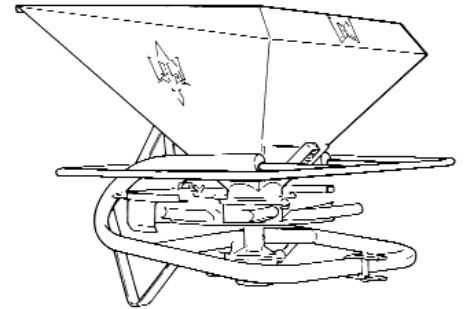
LELY

1 INTRODUCTION

The LELY fertilizer spreader model HR (fig. 1) is unrivaled because of its outstanding accuracy of spread, forced flow of fertilizer and the unique Lely spreading pattern, tailing off towards the edges.

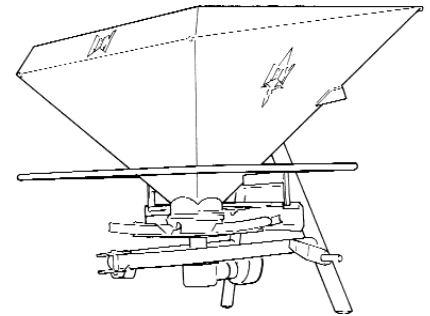
The Lely ejector disc is the hub of the unique LELY spreading mechanism. Due to the special shape of the ejector disc with the long spoons made of stainless steel in conjunction with the feeding assembly, a unique spreading mechanism is achieved.

The rotating bottom plate carries the fertilizer in a rotating movement, as a result of which fertilizer material is pushed from the center to the outer edge. Due to the forced and consistent feed of fertilizer, blockage of the outlets is almost eliminated.



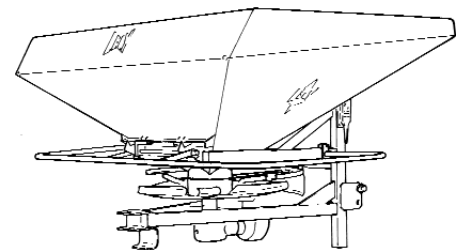
1

The LELY fertilizer spreader model L1250 (fig. 2) is also provided with the unique LELY spreading mechanism. Not just fertilizers, but also seeds, grains, and sand can be spread with this type of spreader. For the application of powdery fertilizers an agitator is available.



2

The LELY fertilizer spreaders L1500 and L2010 (fig. 3) are perfectly suited for fast application of fertilizers on larger areas. The hopper of the single-disc spreader can be tilted backwards enabling the spreading mechanism to be cleaned quickly and easily.



3

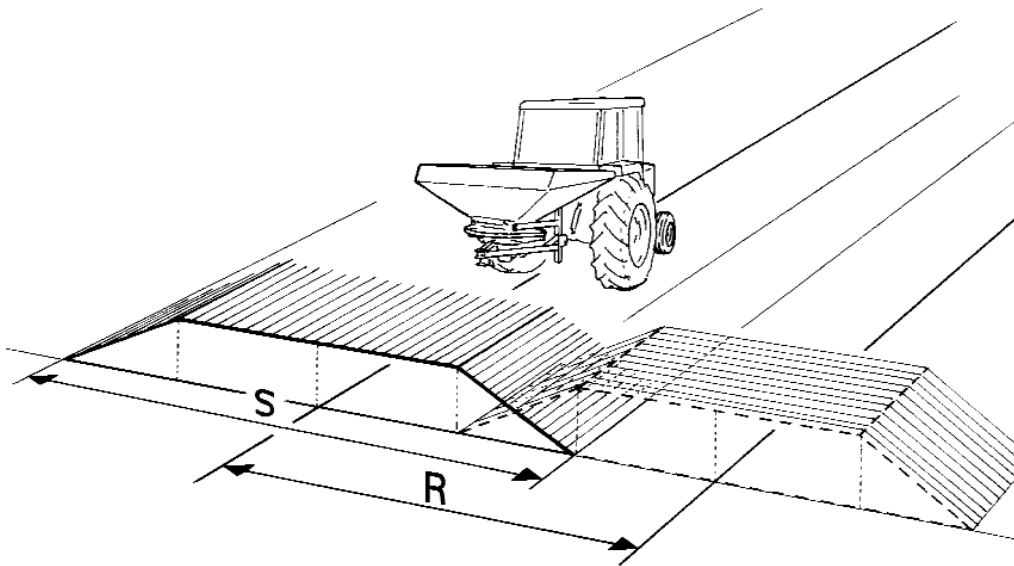
The major characteristics of LELY fertilizer spreaders are: a simple yet rugged construction, reliability, easy control and an excellent spreading pattern.

The ample overlap of the slanting spreading pattern ensures an effective link-up with the preceding pass (Fig 4).

Fertilizer is forced towards the gates of the feeding by the rotating ejector disc, actually the bottom of the hopper. This forced movement of fertilizer ensures a constant flow towards the ejector disc.

The application of granular fertilizers, turf seeds or grains is within the machine's capability. When fitted with an agitator, the models HR and L1250 can also be used for spreading powdery fertilizers, slags, lime or salt/sand.

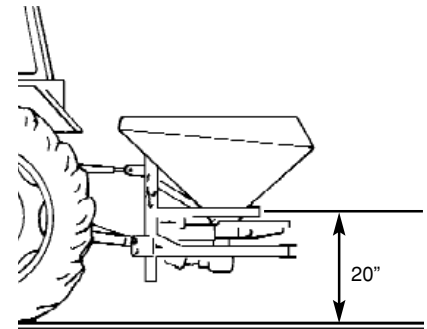
- ! **Fertilizer grains may be ejected at high speeds. Keep this in mind when you are spreading over soft crops or near public areas.**



2 MOUNTING BEHIND THE TRACTOR

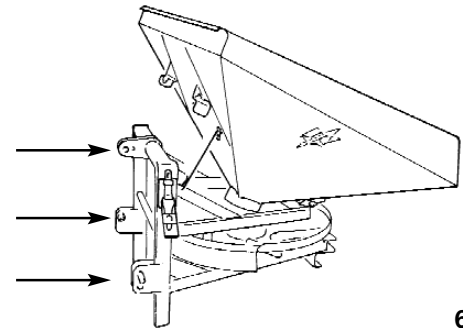
The distance between the ground and the bottom side of the ejector disc should be approx. 20" or 50 cm (fig. 5).

- **HORIZONTAL.** Adjust the tractor lever arms at an equal height. Measure the distance on either side of the machine from the same point of the ejector disc to ground level. Adjust spindle arms if needed. Repeat this measurement at the front and rear of the ejector disc. Adjust topline if needed.**These distances must be equal (tilt toward back for spreading powdery fertilizer types).



5

- Fit the lever arms to the fertilizer spreader by means of Cat. I or II linkage pins (fig. 6).
- Mount the tractor's top link to the machine with the aid of a Cat. II top link pin. Fix the top link on the tractor side in the highest position.
- Secure the tractor's lever arms by means of stabilization chains or rods to prevent the machine from making lateral movements (swinging to the side).
- Attach the PTO shaft to the tractor PTO.



6



- Check the PTO shaft for smooth telescoping. If the PTO shaft is too long or is working under too sharp an angle, **DAMAGE** may be caused to the PTO shaft or GEAR BOX.

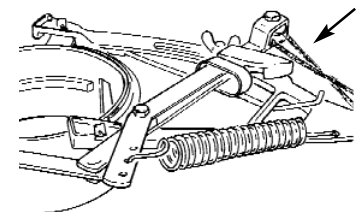


- Before attaching the PTO shaft for the first time, or when using another tractor, the minimum and maximum overlap should be checked. Refer to the instructions supplied with the PTO.

- The minimum clearance between outer tubes and universal joint must be at least 4".
- The minimum overlap of drive and guard tubes must also be 4".



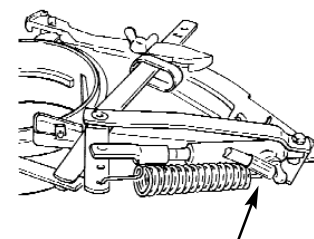
- Fit the safety chain of the guard tube to a solid part of the tractor.



7

- If the machine is equipped with mechanical control of the feed mechanism, run the control rope and handle into the tractor cab (fig. 7).

- If the machine is fitted with a hydraulic control of the feed mechanism, connect the hydraulic hose to a single acting tractor spool valve (fig. 8).



8



2.1 Dismounting from the tractor

- Lower the machine onto the ground by means of the tractor hydraulics, or place it on a solid support (a pallet).
- Switch off the tractor engine. Separate the PTO shaft from the tractor PTO, and place it in/on the hook.
- Remove the control rope from the tractor cab.
- Disconnect the hydraulic hose, if any.
- Detach the top link from the fertilizer spreader.
- Detach the lower arms from the fertilizer spreader.

2.2 Operation

Refer to Spreading Tables with directions for calibration of the machine 4.0 (p. 18-23).

2.3 Cleaning

Easy cleaning of the machine will be can be done by removing or tilting the hopper.

HR & L1250 – to remove the hopper, the arm or fork of the feeding must be taken out of its hole and rotated away. Then release the hopper latch, and by slightly lifting the rear of the hopper, tilt it backwards. After this the feeding can be taken off.

L1500 & L2010 – release latch on each side. Tilt hopper up and secure with hood style holder.

3 TRANSPORT

HR & L type models: The fertilizer spreader can be transported in the tractor's 3-point lift.



- **Apply all lighting and warning signals that are required by law.**
- **For transport on public roads care should be taken that the front axle pressure is sufficient (fit front weights, if necessary) and that the maximum rear axle pressure is not exceeded.**

The tractor is easier to control when the hopper is empty. It is therefore recommended to fill the hopper after arrival in the area to be worked. This also eliminates compacting of fertilizer that may occur during transport.



4 MACHINE ADJUSTMENTS

4.1 Output rates

The output rate is determined by the feeding assembly, the working width, forward speed and PTO speed. The correct position of the calibration scale on the feeding assembly can be determined by means of output rate charts.

The quantities listed in the output charts are approximate. Due to variable factors, such as grain coarseness or fineness, density or specific gravity of the fertilizer, or humidity, etc., the effective output may differ from the value listed in the chart.

It is therefore advisable to check the output. The spreading tables indicate average values only.

For more information on output rates, it is recommended to consult Output Rate Charts for LELY fertilizer spreaders H/L1250/L1500/L2010 at the end of this section.

4.1.1 Working width

An effective overlap of spreading patterns is obtained if the working width is about 3/4 or .77 of the spreading width (fig. 9).

For most types of granular fertilizer the spreading width is approx. 52 ft (16 m) at a PTO output of 425 rpm. At a maximum PTO speed of 540 the quantity distributed is about 10% less and spreading width will change.

The corrected working width is then $.77 \times 52 \text{ ft (16m)} = 40 \text{ ft (12m)}$.

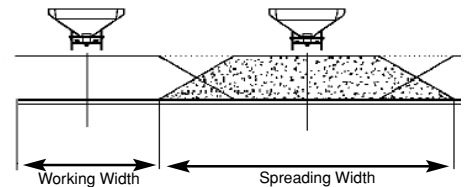
4.1.2 Setting of output rates

Fertilizer outputs per acre depend upon: working width, forward speed, type of fertilizer, and the position of the stop on the calibration scale.

Stop positions for output rates required can be established by consulting the output rate charts at the end of section 4.

The quantities listed in the output charts are approximate. Size, shape, mix, and weight of the fertilizer grains may vary according to the fertilizer brand and/or production batch.

It is therefore recommended to check the output rate according to "4.1.3 Check of output rate" included in this manual.



9



CAUTION: STOP THE PTO AND EJECTOR DISC BEFORE LEAVING THE TRACTOR OR VEHICLE TO CHANGE ANY SETTINGS OR FILLING THE SPREADER.



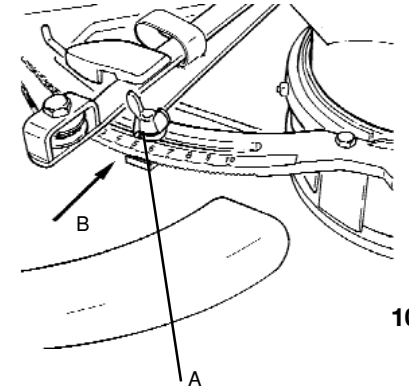
Example I:

- Fertilizer: coarse granular
- Required output rate: 400 lb/acre
- Working width = 40 ft (12 m)
- Forward speed = 3.5 mph

The output chart for coarse fertilizers indicates that position 7 of the calibration stop (fig. 10) gives an output of 365 lb/acre, while an output of 445 lb/acre is obtained at setting 8.

An intermediate position will have to be used.

The output difference between positions 7 and 8 is $445 - 365 = 80$ lb/acre. Each consecutive intermediate position accounts for an increase in output of approx. $1/4 \times 80$ lb/acre.



POSITION	Intermediate Positions			POSITION
7	A	B	C	8
365	385	405	425	445

The second intermediate position B gives the closest approximation of the output required.

It is possible to operate at a working width other than the one listed in the output rate charts.

When using another working width, the operator should adjust the PTO rpm so that the spreading width is $4/3$ the planned working width.



Attention! PTO speed should never exceed 540 rpm.

Example II:

- Planned working width 50 ft (15 m)
- Spreading width should be $4/3 \times 50 = 66$ ft (20 m)

The output rate setting can be inferred from the chart as follows:

$$\frac{\text{Output required} \times \text{working width}}{\text{Working width as per chart}} = \text{setting value}$$

The position of the calibration stop is determined according to this setting value.



Example III:

- Output required = 375 lb/acre
- Planned working width: 50 ft (15 m)
- Chart is valid for 40 ft (12 m) working width
- Forward speed = 3.5 mph

$$\text{Setting value} = 375 \times \frac{50}{40} = 469 \text{ lb/acre}$$

Chart: output rate for position 8 is 445 lb/acre, position 9 gives 485 lb/acre.

The second intermediate position gives the closest approximation of the setting value.

When operating at a working width other than the one listed in the chart, do not fail to carry out a check of the output rate at this working width.

4.1.3 Check of output rate

The effective output rate can be calculated as follows.

- Spread a weighed quantity of fertilizer. At the working width and speed which will be used throughout the operation.
- Measure the distance covered.
- Calculate the output/acre as follows:

$$\frac{\text{Output rate} \times 43,560}{\text{Distance (ft)} \times \text{working width (ft)}} = \text{lb/acre}$$

Example:

- Output rate = 200 lbs.
- Output required = 400 lb/acre
- Distance covered = 576 ft (175 m)
- Working width = 40 ft (12 m)

$$\frac{200 \times 43,560}{576 \times 40} = 378 \text{ lb/acre}$$

In order to obtain the output required, the feeding assembly should be adjusted to a higher position.

REMARKS

If tractor wheel slip occurs, the quantity spread per acre will increase.

The correct calibration and correct distribution pattern are only obtained when fertilizer reaches the ejector disc through the three gates of the feeding. Any multi-sized/ density material and leakage must be adjusted for. The feeding gates should not be altered in any way.



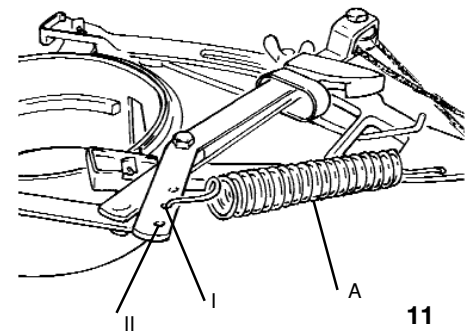
The Agitator (2320104600) should NOT be used when spreading granular fertilizer.

4.2 Control

4.2.1 Mechanical control

The feed assembly can be closed and opened by pulling the control rope to the point of locking and pulling again to unlock the spreading mechanism. The spring A (fig. 11) opens the gates (position I is the standard position) after the spreading mechanism is unlocked.

If a fertilizer that causes friction on the feeding is applied, the tension spring (A) may be moved to the outer hole (II) of the lever (fig. 11).

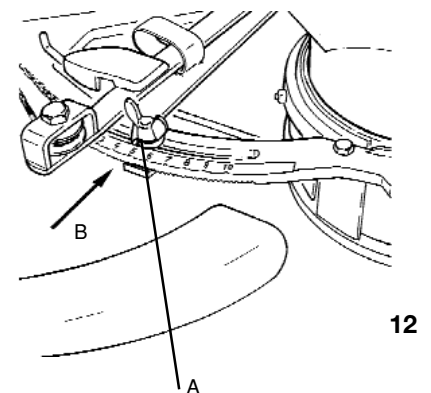


4.2.2 Hydraulic control

A feed assembly that is actuated by a hydraulic control is closed and opened by briefly pressurizing and depressurizing the ram. Each time the ram is actuated, the feed assembly is alternately locked and unlocked.

4.2.3 Calibration scale

The degree of gate opening and, hence, the output rate is determined by the position of the indicator on the calibration scale (fig. 12). Indicator settings are possible from 0 up to and including 10 by adjusting the stop A. In between the positions on the calibration scale there are three intermediate positions.



When locking the stop, make sure that the teeth B are meshed into the underside of the scale.

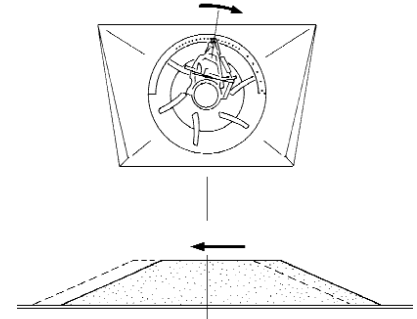


4.3 Fork/arm position

When starting the spreading operation, check for equal application on the left and right side. Adjust if necessary.

The position of the spreading pattern behind the spreader is determined by the position of the feeding assembly (fork/arm position) When the fork is turned clockwise, the spreading pattern will move to the left, when viewed in the direction of travel or from behind the tractor. By adjusting the fork, a symmetrical pattern behind the tractor can be ensured.

A general rule of thumb is: the coarser the material to be spread, the higher the fork setting (fig. 13 & 14).



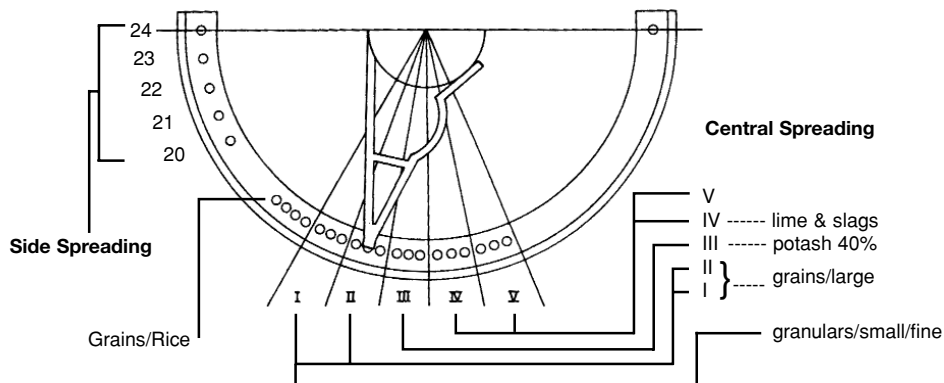
13

Material	Fork setting
Lime, slags	4-6 IV
Lime nitrate 40%	7-9 III
Granulars	10-15 I & II
Cereals/rice	13-19 I & Rice

The correct position of the feeding assembly should be determined by experiment. The spreading pattern should be centrally located behind the broadcaster. Place the fork in one of the positions listed above by way of guideline. If, for example, the spreading pattern deviates to the right, this can be corrected by moving the fork of the feeding one hole to the left.

Positions 20 – 24 are used for side or headland spreading. For further details please refer to "4.4.1 Adjustment for side/headland spreading".

Differences in size and weight of various fertilizers, grains or seeds may cause the spreading pattern to not be centrally behind the broadcaster.



14



4.4 Side/Headland spreading

4.4.1 Adjustment

The fork of the feeding assembly should be set in position 20 – 24 (fig. 15). Move it in a clockwise direction to a suitable hole in the sideplate to obtain side delivery.

Select position 20 – 22 for powdery fertilizers.
 Select position 22 – 24 for coarsely granulated fertilizers.
 Select position 21 – 23 for the remaining materials.

Spreading takes place from the tractor wheel track towards the side area. The side/headland spreading pass should be carried out at a distance from the side of $\frac{2}{3}$ (.67) full field working width.

Check correct position of spreading pattern, on the left side behind the spreader (fig. 16). Adjust, if necessary by means of a different fork/arm hole position.

The fertilizer or other material has to remain just within the side area desired. If necessary, adjust your PTO rpm in order to ensure that the spreading pattern just reaches the edge of the turf or field.

The output rate for side/headland spreading should be 40% of the quantity required during regular turf or field application. Subsequent runs are then carried out in the normal manner with the full feed rate and the feeding set to spread centrally (fig 17).

Example:

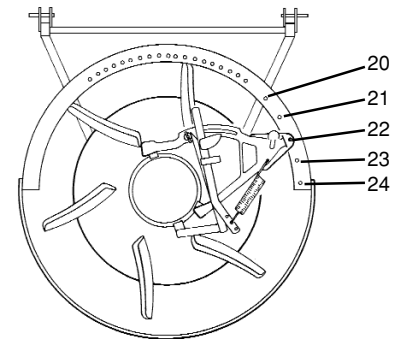
- Output required = 400 lb/acre
- Forward speed = 3.5 mph
- Working width = 40 ft (12 m)

The tractor wheel track for the side/headland pass is situated at $\frac{2}{3}$ (.67) of the 40 ft working width = 26 ft (8 m) from the side. The output rate has to be adjusted at 40% of 400 lb/acre = 160 lb/acre.

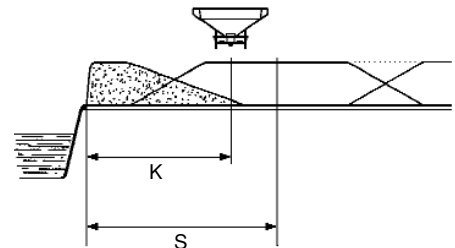
From the chart for coarse granular it can be inferred that the indicator should be adjusted to position 5.



CAUTION: STOP THE PTO AND EJECTOR DISC BEFORE LEAVING THE TRACTOR OR VEHICLE TO CHANGE ANY SETTINGS OR FILLING THE SPREADER.

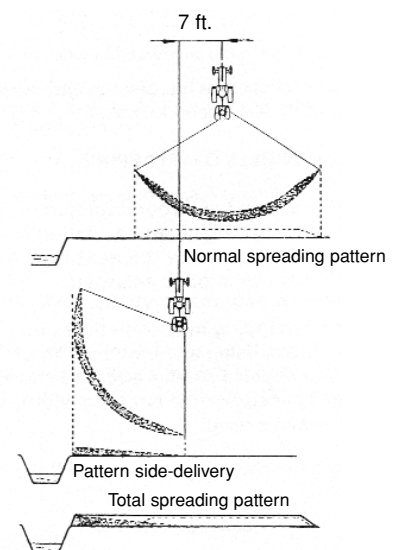


15



K = side/headland spreading
 S = first pass full field

16



17



OUTPUT CHARTS H/L1250/L1500/L2010

- Select the forward speed and working width for your operation.
 - Consult the chart to establish the position of the indicator to go with the output required.
- Example:*
Fertilizer = calcium ammonium nitrate (course granulars)
Output required = 400 lbs/acre
Working width = 40 ft
Forward speed = 3.5 mph

From Chart 1 for coarse granulars it can be seen that the output is 365 lbs/acre at position 7 and 445 lbs/acre at position 8.

An intermediate position will have to be used. The output difference between positions 7 and 8 is (445 - 365 =) 80 lb/acre.

Each consecutive intermediate position accounts for an increase in output of approx. 1/4 x 80 lbs/acre.

POSITION	Intermediate Positions			POSITION
	A	B	C	8
365	385	405	425	445

- The second intermediate position gives the closest approximation to the output required.
- Working width required differs from the chart. Adjust your PTO r.p.m. in such a way that the spreading width is approx. 4/3 planned working width.

Attention! The charts provide planned values for the output rates. Effective rates may differ from chart values due to a variety of factors including granular roughness, specific gravity of fertilizers, humidity, etc. It is therefore recommended that an output rate check be carried out.

Attention! PTO is not allowed to exceed 540 r.p.m.

- Establish the setting value with which the indicator position can be determined. The output setting can be inferred from the chart as follows:

$$\frac{\text{Output required} \times \text{working width}}{\text{Working width as per chart}} = \text{setting value}$$

By means of this setting value, the indicator position should be established.

Example:
Output required = 375 lbs/acre
Planned working width = 50 ft
Chart valid for 40 ft working width
Forward speed = 3.5 mph

$$\text{Setting value} = 375 \times \frac{50}{40} = 469 \text{ lb/acre}$$

Chart: position 8 gives 445 lbs/acre, position 9 gives 485 lbs/acre.

The second intermediate position gives the closest approximation of the setting value.

The spreading width should be 4/3 x 50 = 67 ft. Step up the PTO r.p.m. until this width will be achieved.

When using another working width than the one listed in the chart, always carry out an output check.

- Check working rate rate.
- The effective output rate can be checked as follows.
- Spread a measured quantity of fertilizer. Set the working width and speed that will be used afterwards, during the operation.
 - Measure the distance covered.
 - Calculate the output/acre as follows:

$$\frac{\text{Quantity spread} \times 43,560}{\text{Distance (ft)} \times \text{working width (ft)}} = \text{lb/acre}$$

Example:
Quantity spread = 200 lbs
Output required = 400 lbs/acre
Distance covered = 576 ft
Working width = 40 ft

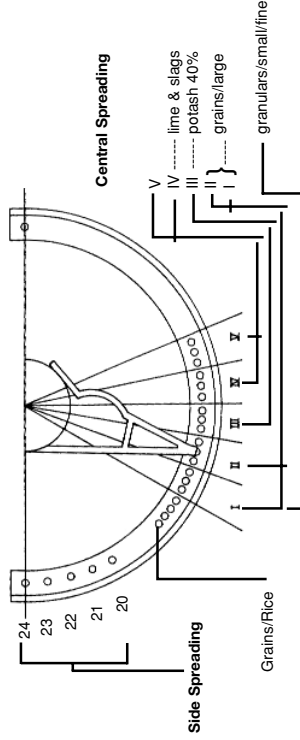
$$\frac{200 \times 43,560}{576 \times 40} = 378 \text{ lbs/acre}$$

In this case the feed assembly should be adjusted to a higher position in order to obtain the output required.

- The use of an agitator will stimulate the flow of powdery fertilizers. This agitator should only be used in the H and L1250 models. Because the L1500 and L2010 are less suited to the application of powdery fertilizer materials.

CALIBRATION TABLE FOR CEREALS AND SEEDS

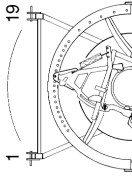
Sort of Seed	type of feeding	swinging arm setting *	control setting	width of effective spread in feet	amount of seed sown in lbs/acre
Alfalfa	S	I	4	23	13
Alsike clover	S	I	3	23	10
Barley	F	I	4	46	64
Blue grass	S	II	10	10	30
Blue grass	F	V	3	10	30
Brome grass	F	III	5	13	17
Buckwheat	F	II	4	36	58
Sugar, Cane or Sorghum	F	II	3	40	13
Corn	F	I	3	46	11
Flax	F	II	2 1/2	26	33
Ladino clover	S	I	1	20	7
Millet	S	IX	7	30	36
Oats	F	II	5	40	74
Orchard grass	F	IV	3 1/2	10	20
Pasture mixture	F	IV	3	13	18
Rape	S	IX	3	30	6
Red clover	S	I	3 1/2	23	10
Red/Creeping Fescue	F	IV	5	16	30
Red top	S	V	4	10	11
Rice	F	II	4	46	64
Rye	F	I	4 1/2	42	84
Rye grass	F	III	3	16	19
Soy beans	F	X	5	52	80
Sudan grass	S	II	2 1/2	30	22
Timothy	F	II	4	16	15
Vetch	F	I	3	40	38
Wheat	F	I	6	46	120



S = special set of feedings for sowing small seeds
 F = standard type feedings as for fertilizer
 * = for these setting see fig. 14

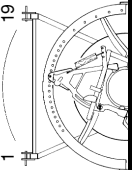
Note: When using a very small quantity of seed, it is recommended that potash or sand be mixed with the seed.

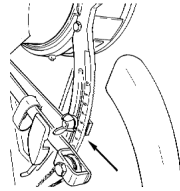
OUTPUT CHART #1 **COARSE GRANULARS**
for Standard Feeding Assembly (compounds, calcium ammonium nitrate, etc.)

		 Position feed assembly 10-15									
WORKING WIDTH: 40 ft Spreading width: approx. 52 ft PTO output: approx. 425/min		FORWARD SPEED (miles/h)									
Quantities in lbs/acre	2	2.5	3	3.5	4	5	6	7	8	9	
Indicator Stop 1	20	-	-	-	-	-	-	-	-	-	
2	45	35	30	25	-	-	-	-	-	-	
3	115	90	75	65	55	50	40	35	30	25	
4	195	155	130	110	95	80	65	55	50	40	
5	290	230	195	170	145	120	100	80	75	65	
6	430	345	285	250	215	175	145	125	105	100	
7	645	515	425	365	320	260	215	185	160	145	
8	780	625	520	445	390	310	260	220	195	175	
9	845	675	565	485	420	335	285	240	215	185	
10	890	710	590	505	445	355	295	255	220	195	

OUTPUT CHART #2
for Standard Feeding Assembly

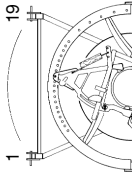
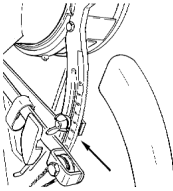
FINE GRANULARS
(calcium nitrite, prills, etc.)

		 Position feed assembly 10-15									
		FORWARD SPEED (miles/h)									
Quantities in lbs/acre		2	2.5	3	3.5	4	5	6	7	8	9
Indicator Stop	1	40	35	25	25	-	-	-	-	-	-
	2	65	50	45	35	35	25	20	-	-	-
	3	170	135	110	95	80	65	55	45	40	40
	4	310	250	205	180	155	120	100	90	80	70
	5	485	385	320	275	240	190	160	135	120	105
	6	710	570	470	405	355	285	240	205	175	155
	7	940	755	625	540	475	375	315	270	235	210
	8	1140	915	760	650	570	455	380	325	285	255
	9	1230	985	815	705	615	495	410	350	305	270
	10	1280	1025	850	730	640	510	425	365	320	285





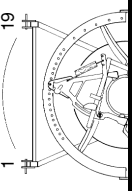
OUTPUT CHART #3
for Standard Feeding Assembly **POTASSIUM SALT 40%**

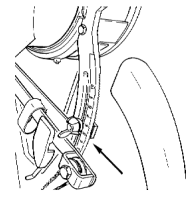
		 WORKING WIDTH: 20 ft Spreading width: approx. 26 ft PTO output: approx. 425/min										FORWARD SPEED (miles/h)									
		2	2.5	3	3.5	4	5	6	7	8	9										
Quantities in lbs/acre Indicator Stop 	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	80	60	50	40	40	30	25	20	-	-	-	-	-	-	-	-	-	-	-	-
	4	150	120	100	85	75	60	50	45	35	35	35	35	35	35	35	35	35	35	35	35
	5	225	180	150	130	115	90	75	60	55	50	50	50	50	50	50	50	50	50	50	50
	6	300	240	200	170	150	120	100	85	75	70	70	70	70	70	70	70	70	70	70	70
	7	440	350	290	255	220	175	145	125	110	100	100	100	100	100	100	100	100	100	100	100
	8	585	470	390	335	290	235	195	170	145	130	130	130	130	130	130	130	130	130	130	130
	9	780	620	520	445	385	310	260	220	190	175	175	175	175	175	175	175	175	175	175	175
	10	885	710	585	505	440	355	295	255	215	195	195	195	195	195	195	195	195	195	195	195



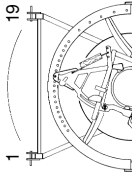
OUTPUT CHART #4
for Standard Feeding Assembly

SLAGS + 6% water

		 Position feed assembly 4-6									
		FORWARD SPEED (miles/h)									
Quantities in lbs/acre		2	2.5	3	3.5	4	5	6	7	8	9
Indicator Stop	1	55	90	35	35	30	20	-	-	-	-
	2	170	135	115	100	85	70	55	45	40	40
	3	310	250	210	180	160	125	100	90	80	70
	4	480	385	320	275	240	190	160	135	120	105
	5	645	515	425	365	320	260	215	185	160	145
	6	805	640	535	460	400	325	270	230	200	180
	7	1105	885	735	630	555	440	370	315	280	245
	8	1375	1100	915	785	690	550	460	395	345	305
	9	1435	1145	955	820	715	570	480	410	355	320
	10	1455	1165	965	835	725	580	485	415	365	325



OUTPUT CHART #5 **COARSE GRANULARS**
for Mass Feeding Assembly (compounds, calcium ammonium nitrate, etc.)

		 WORKING WIDTH: 40 ft Spreading width: approx. 52 ft PTO output: approx. 425/min									
		FORWARD SPEED (miles/h)									
Quantities in lbs/acre		2	2.5	3	3.5	4	5	6	7	8	9
Indicator Stop	1	55	45	35	35	30	20	-	-	-	-
	2	195	155	130	110	100	80	65	55	50	40
	3	505	400	335	290	255	200	170	145	125	110
	4	795	640	525	455	395	320	265	225	200	180
	5	1145	915	760	655	575	460	380	330	285	255
	6	1565	1255	1045	895	785	625	520	450	395	350
	7	1900	1520	1260	1085	950	760	635	525	475	420
	8	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-



5 Operating the machine

- Granular fertilizer may be ejected at high speeds, leading to injuries and damage of soft crops.



- **High Speed Fertilizer:** do not allow people or animals to approach a spreader in operation within a radius of 100 ft (30 m). Reduce the spreading width when spreading over easily damaged crops!



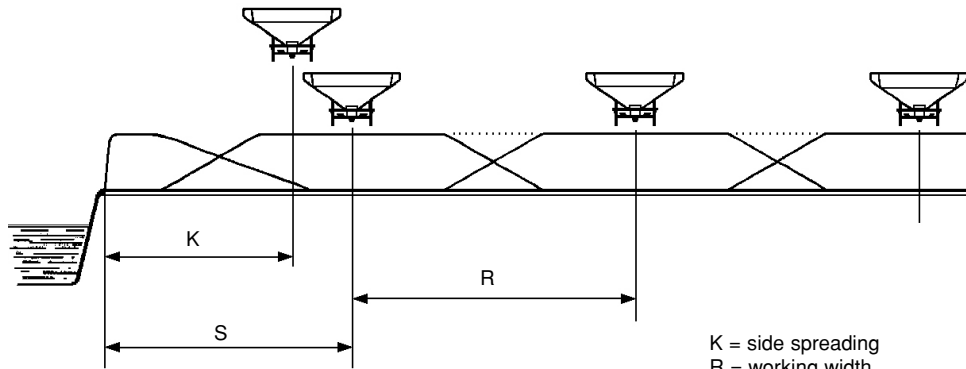
- Stop the tractor engine before leaving the cab. Do not allow anyone to come near the machine while the discs are still rotating.



- First carry out the check and maintenance duties if the spreader is newly put into use. For more details refer to "6 Maintenance".

At user's choice, side/headland or full spreading may be carried out first (fig. 18).

In the diagram below you will see the effects of successive passes working away from the side of a plot. The first pass is to the side only. Each following pass moves to the right to overlap the preceding pass. See table below.



18

Working Width	Distance from plot side (ft)	
	Side Spreading	First Pass
R	$K = .67 \times R$	S
16	10.5	14
20	13	17
40	26	34.5
50	33	42.5

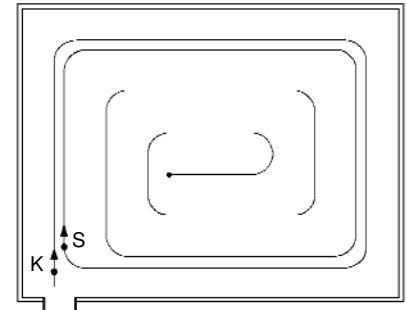


5.1 Full field operation

It is up to you to start with side/headland spreading or with a full field operation.

For full field spreading circular passes are preferred to driving up and down (fig. 19). When driving circular passes, spreading differences will be compensated by the next run or adjoining spreading pattern.

When driving up and down on turf applications, spreading differences are increased. It is important to know your Working Width and ensure proper overlap to compensate for the greater deviation that occurs using this method.



K = side spreading
S = first pass full field

19

5.2 Double overlap

If a particularly accurate spreading pattern is required, double overlap spreading can be carried out.

Half the normal working width is then used.

Carry out spreading all over the plot by driving up and down (fig. 20).

As spreading is effectively carried out twice, the feed assembly has to be set at half the output required.

Example:

- Output required = 400 lb/acre
- Normal working width = 40 ft (12 m)
- When applying double overlap:
drive up and down with a 20 ft (6 m) distance between the passes.
- Set feeding assembly at an output of 200 lb/acre.

Sometimes it is desirable to double the quantity spread per acre. Use a working width 1/2 the normal working width and following the above Double Overlap pattern. Do not adjust feeding output.

Spreading round and round is preferable to spreading up and down when it comes to accurate distribution.

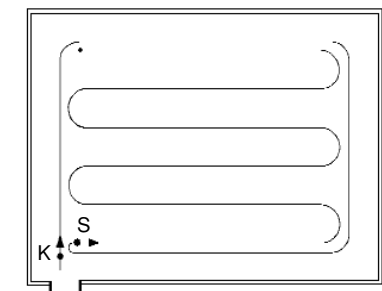
5.3 Check of spreading width

An effective link-up of spreading patterns is obtained if the working width is 3/4 (.77) of the spreading width (fig. 9).

If there is a substantial difference, the following checks should be carried out:

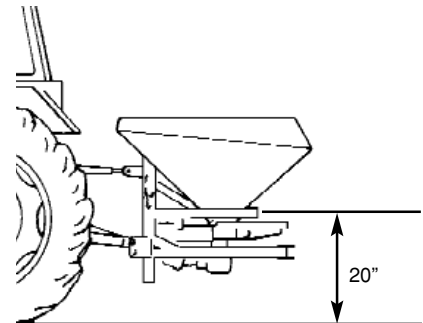
- the working width was measured correctly;
- correct working height of the spreader 20" (50cm) (fig. 21);
- damage or wear and tear of spinner discs, spoons or feed device;
- the correct output chart was used.

There may also be differences (grain shape, size, and weight) between the fertilizer applied and the material used during spreading tests for establishing the output charts (information could be from another quality or brand).



K = side spreading
S = full field spreading

20



21



5.4 Check of output rate

The quantities listed in the output charts are approximate. Size, shape and weight of the granular may vary according to the fertilizer brand and/or production batch. The effective output may also be affected by other circumstances (for example, humidity).

It is therefore recommended to check the rate of output. Or else the following procedure can be applied.

- Put a weighed-out quantity of fertilizer in the hopper.
- This quantity should cover a distance of at least 300 ft (91 m).
- Empty the hopper by operating at the required forward speed.
- Measure the distance of the fertilizer application.
- Weigh the remainder of fertilizer in the hopper (if hopper has not been emptied).
- Determine the output of fertilizer per acre by means of the formula below:

$$\frac{43,560 \times \text{output (lb)}}{\text{working width (ft)} \times \text{length covered (ft)}} = \text{lb/acre}$$

Example

Fertilizer spreader filled with 150 lb fertilizer.

Working width = 40 ft (12 m).

Distance covered = 500 ft (152 m).

Remainder of fertilizer = 52 lb.

$$\text{Output} = \frac{43,560 \times (150-52)}{40 \times 500} = 213 \text{ lbs/acre}$$

If the effective output differs very much from the value listed in the chart, this may be due to any of the following causes:

- large difference between the fertilizer applied and the material for which the chart is applicable;
- incorrect adjustment of the feeding assembly;
- non-compliance with the forward speed and / or PTO rpm on which the output rate adjustment is based;
- clogging of feeding openings (example – lumps or clods in the fertilizer).



5.5 Powdery fertilizers

For spreading powdery fertilizers (lime): the broadcaster should be tilted backwards (away from tractor) as far as practical. As a result the material will not throw as far and reduces air born material.

Reduce the PTO speed below or at 425 rpm.

It is recommended to use the mass feeding.

The use of an agitator base - A (fig. 22) should effect a regular flow of powdery fertilizer. If an agitator is used, the hopper should not be filled until spreading is actually started. This can increase your application rate by 10%.

Never run the spreader with a completely empty hopper. Refill when agitator becomes noisy. Put rubber hose tips at end of tines to reduce wear and noise.

Agitator – The spreader models H and L1250 can be fitted with an agitator B (fig. 22) if the flow of fertilizer is not running smoothly. Also use with damp or lumpy materials to ensure a uniform feed.

Attention! Agitators should not be fitted in L1500 and L2010 models. These machines are less suited to the application of powdery fertilizers. The agitator base after removal of tines, however, can be used.

Never spread granular fertilizer with an agitator.

5.6 Slags

Slags can be spread effectively if they are mixed with 6% water (6 quarts of water for 220 lbs of slags) prior to spreading. The agitator B (fig. 22) will produce a mixture if water is added to each hopper load. Start spreading immediately after the hopper has been filled with slags and water. When adding water, make sure that it does not reach the walls of the hopper. The sides must be kept dry.

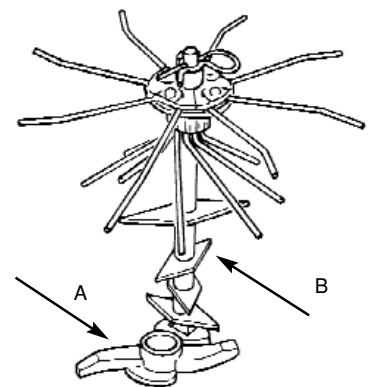
In addition to the above, see "5.5. Powdery fertilizers" for the application of slag.

5.7 Seeds

Lely spreaders can also be used for the application of seeds. For spreading small seeds, a special small seed feeding is available.

The Calibration Table for Cereal & Seed (page 18) provides output for various types of seeds.

NOTE: Certain types of material (e.g. very fine fertilizers, turf or rice) may force their way to the spinner disc through the space between the hopper neck and the feeding assembly. This type of spillage can be avoided by fitting a length of self adhesive foam insulation on the hopper neck above the feeding.



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6 MAINTENANCE



Proper machine servicing is necessary to maintain reliable and safe working conditions.

6.1 Maintenance after operation

Maintenance has to be carried out:

- at the start of the spreading season;
- before prolonged storage of the machine;
- when the machine is used extensively during the season;
- to prolong the lifetime of the machine.

- Clear the hopper of fertilizer residue, if any.
- After jet-cleaning the machine thoroughly, allow rotation of the spinner disc for a while to ensure that water is swept away.

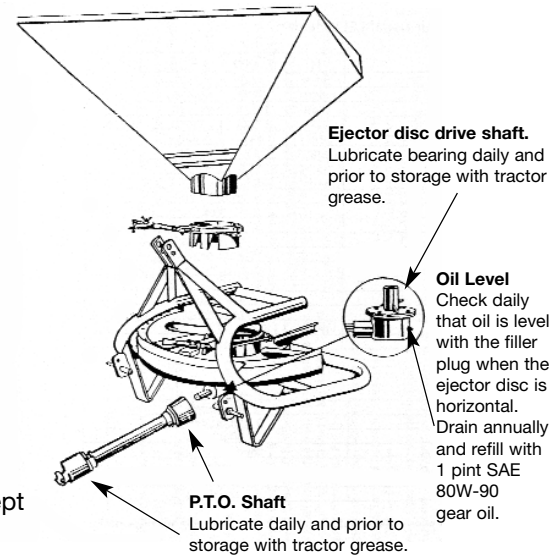


Take care that nobody is in the danger zone!

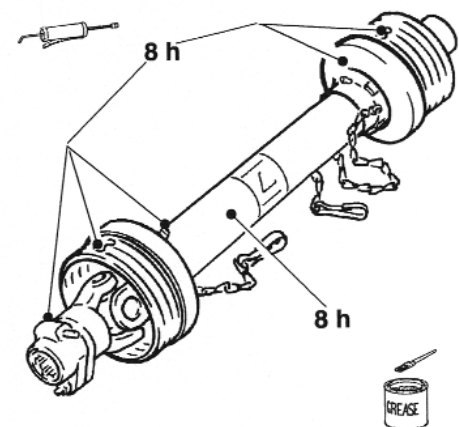
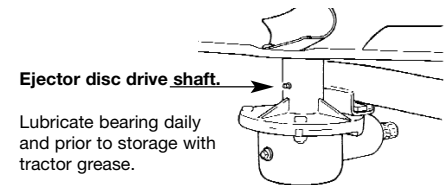
- Grease the machine with a rust preventive.
- Check the condition of the spinner discs and spoons. Damaged or worn spinner discs and/or spoons may affect the spreading pattern. Replace if worn.
- When fitting spoons, tighten the bolts with a torque of 11 ft-lb as a **maximum**.
- Check the oil level of the gear box frequently.
 - Please refer to "6.3 Change of oil".
- Check if the PTO shaft telescopes smoothly. A damaged PTO shaft may cause excessive wear and tear to the machine and tractor.
- If an agitator is used, it should be cleaned daily upon completion of the operation. Remove the agitator from its shaft and grease it.

6.2 Lubrication

- PTO shaft and profile tubes to be greased every 8 working hours by the grease nipples on the cross assemblies and protection tubes (fig. 24).
- Grease the spring-loaded locking pins of the yoke lock of the PTO shaft.
- When operations are completed in wintertime, grease the protection tubes of the PTO shaft in order to avoid blockage through freezing.



23

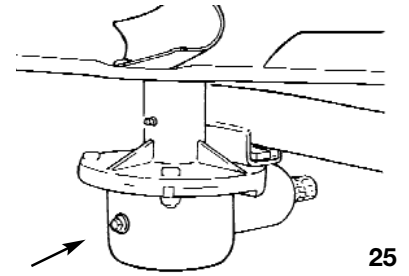


24



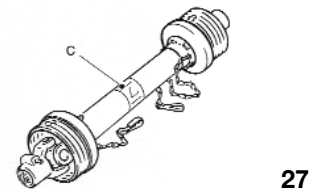
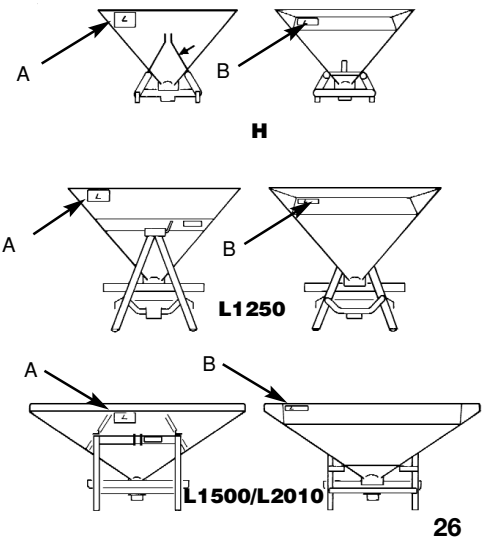
6.3 Change of oil

- The oil in the gearbox should be changed every 2 years or if the machine is used intensively every year. The oil content of the gearbox is approx. 1 pint 9 (.5 qt).
- When the machine/gearbox is kept in a horizontal position, the oil level should be exactly up to the bottom side of the hole for the filling plug (fig. 25).
- For changing/filling, 80W-90 (non foam, non detergent) gear oil should be used or another type of oil meeting the specification.



6.4 Safety Decals

- Check the presence and condition of all safety decals (fig. 26/27).



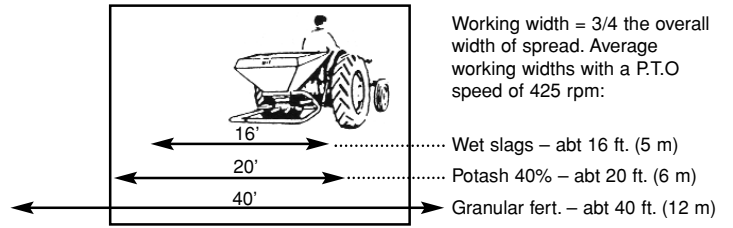


Supplement A

CONDENSED INSTRUCTIONS

Study the instruction manual carefully before operating spreader.

- Select the required working width, forward speed and output/acre. Consult the output chart for the corresponding adjustment of the feeding assembly (fig. 28). When working at a width not listed in the table, the "setting value" should be used. If you increase the PTO speed the spreading width increases accordingly.



28

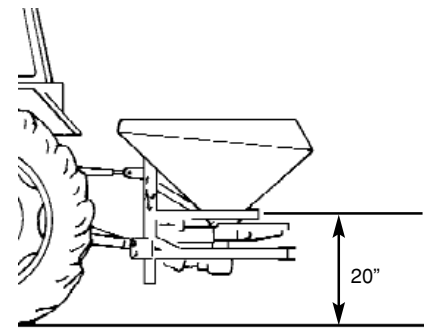


CAUTION: NEVER EXCEED PTO SPEED OF 540 RPM.

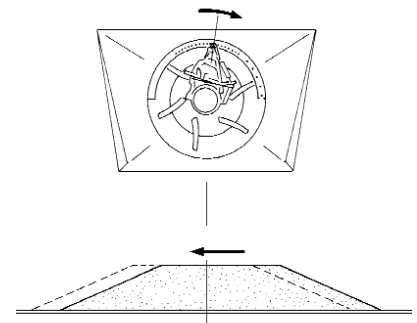
When working with a double overlap: adjust at half the output rate required.

For side/headland spreading: adjust at 40% of the required (fullfield) output.

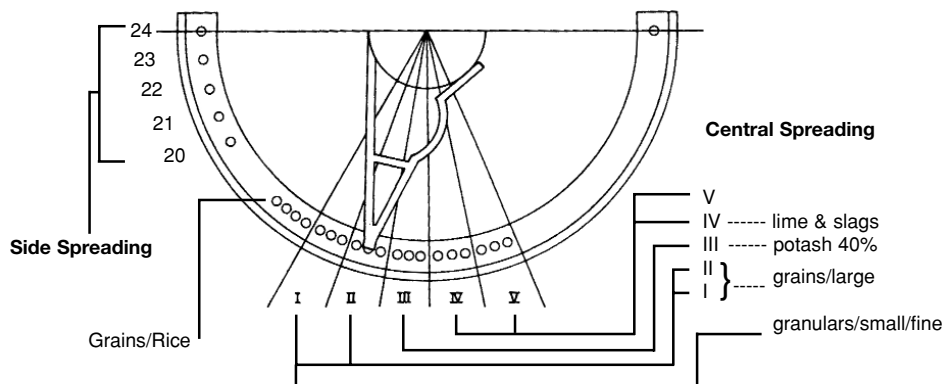
- Adjust the spinner disc in a horizontal position, at a distance of 20" (50 cm) (fig. 29) over the ground/turf/crop level. For the application of powdery fertilizers, tilt spreader backwards away from tractor.
- The position of the feeding assembly (fork position) in respect to the machine determines the position of the spreading pattern behind the spreader (fig. 30).
- Move the arm/fork to a hole that centralizes your spread pattern.
- By moving the fork position clockwise, the spreading pattern will move to the left seen from the direction of travel.
- For side/headland spreading move clockwise to the 5 far side holes (fig 31).
- A general rule of thumb is: the coarser the fertilizer material, the higher the position number of the fork.



29



30



31

Supplement B



CONDENSED APPLICATION RATES

	<p>CONDENSED OPERATING INSTRUCTIONS ** STANDARD FEEDRING** FOR COMPLETE INFORMATION SEE YOUR OPERATORS MANUAL</p>	<p>INSTRUCCIONES DE FUNCIONAMIENTO RESUMIDAS **ALIMENTACIÓN NORMAL** EL MANUAL DEL USUARIO CONTIENE LA INFORMACIÓN COMPLETA.</p>										
<ul style="list-style-type: none"> CHECK OIL LEVEL IN GEARBOX (SAE 90) POSITION MACHINE AT CORRECT HEIGHT BEFORE COUPLING P.T.O. SHAFT (EJECTOR DISC ± 20 INCHES OR 50 CM ABOVE GROUND) 		<ul style="list-style-type: none"> REVISE EL NIVEL DE ACEITE EN LA CAJA DE ENGRANAJES (SAE90) COLOQUE LA MÁQUINA A LA ALTURA CORRECTA ANTES DE ACOPLAR EL EJE DE TOMA DE POTENCIA (DISCO EYECTOR ± 50 cm o 20 pulg. SOBRE EL SUELO) 										
<p>BASIC CALIBRATION (Central spreading) LBS/Acre Spreading width = 52 ft. Working Width = 40 ft.</p>		<p>CALIBRACIÓN BÁSICA (Distribución central) libras/acre Ancho de distribución = 16 m Ancho de trabajo = 12 m</p>										
<p>DANGER: Maximum PTO speed is 540 R.P.M. Operate in range between 425 & 540 R.P.M. PELIGRO: La máxima velocidad de la toma de potencia es 540 rpm. Haga funcionar el equipo entre 425 y 540 rpm</p>												
Forward MPH Speed Velocidad de avance (millas/h)	3	5	9	3	5	9	3	5	9			
Position of calibration scale. Posición de la escala de calibración	Granulars (Large) Granulares (grandes) Coarse (Gruesos) Position Feeding 10 – 15 Coloque el anillo de alimentación en 10 – 15 Cantidad en libras/acre			Granulars (Small) Granulares (pequeños) Fine (Finos) Position Feeding 10 – 15 Coloque el anillo de alimentación en 10 – 15 Cantidad en libras/acre			Potash non-granular Potasa no granular Spread = 26', Work = 20' Position Feeding 7 – 9 Quantity in lbs/acre			Lime and slags Cal y escorias Spread = 21', Work = 16' Position Feeding 4 – 6 Quantity in lbs/acre		
3	70	45	23	100	60	33	45	27	15	187	112	62
6	258	155	86	423	254	141	178	107	59	482	289	161
9	506	303	169	735	441	245	464	280	155	857	514	286

<p>NOTE:</p> <ol style="list-style-type: none"> 1. USE THE AGITATOR FOR WET AND LUMPY MATERIALS ONLY. MIX SLAGS WITH SOME WATER PRIOR TO SPREADING. 2. THE SECTIONS I-V HAVE 3 ADJUSTMENT HOLES EACH IN ORDER TO OBTAIN A SPREADING PATTERN AS REGULAR AS POSSIBLE OR CENTRAL. 3. QUANTITIES LISTED ARE APPROXIMATE. EFFECTIVE OUTPUT MAY DIFFER. 4. FOR COMPLETE INFORMATION SEE YOUR OPERATORS MANUAL. 	<p>NOTA:</p> <ol style="list-style-type: none"> 1. UTILICE EL AGITADOR ÚNICAMENTE PARA MATERIALES MOJADOS Y GRUMOSOS. MEZCLE LAS ESCORIAS CON ALGO DE AGUA ANTES DE ESPARCIRLAS. 2. LAS SECCIONES I-V TIENEN CADA UNA 3 ORIFICIOS DE AJUSTE A FIN DE LOGRAR UN PATRÓN DE DISTRIBUCIÓN TAN REGULAR O CENTRAL COMO SEA POSIBLE. 3. LAS CANTIDADES QUE APARECEN SON APROXIMADAS. LA SALIDA REAL PODRÍA SER DIFERENTE. 4. EL MANUAL DEL USUARIO CONTIENE LA INFORMACIÓN COMPLETA.
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Calibration Scale
Escala De Calibración

Side Spreading
Distribución Lateral

Grains/Rice
Granos/Arroz

Central Spreading
Distribución Central

V
IV ----- lime & slags (cal y escorias)
III ----- potash 40% (potasa)
II } ----- grains/large (granos/grandes)
I } ----- granulars/small/fine (pequeños/finos)

<p>CAUTION: STOP THE PTO AND EJECTOR DISC BEFORE LEAVING THE TRACTOR OR VEHICLE TO CHANGE ANY SETTINGS OR FILLING THE SPREADER. KEEP CLEAR OF MOVING PARTS.</p>	<p>¡PRECAUCIÓN! PARA EL PTO DISCO DE EJECTOR ANTES SOUIR EL TRACTOR O VEHICULO DECAMBIAR CUALQUIER ESCENARIOS O LLENAR EL ESPARCIDOR. MANTENGASE ALEJADO DE LAS PIEZAS MOVILES.</p>
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Supplement C

OPTIONS

Feeding assemblies

The spreader is supplied with a remote control Standard feeding assembly, controlled from the tractor cab by means of a rope.

A Standard Hydraulic feeding assembly is available as an option. It lets the operator open and close the feeding using a switch connected to the tractor's hydraulic system.

If fine seeds need to be spread, a Small Seed Feeding assembly can be used. This device has small output openings.

For the application of large quantities per acre or powdery fertilizer (lime), a Mass feeding assembly is available. For sand/salt applications it can be fitted with a sand/salt ejector disc featuring short spoons. When fitted with these attachments, the machine can spread sand and/or salt on snow or ice covered parking lots, sidewalks or roads.

Mesh Grid Screens

Screens are available for all H & L spreaders. The screen prohibits solid masses of material from entering the feeding area. Blockage of the feeding assembly or an irregular flow of fertilizer is avoided.

Agitators

In the spreader models H and L1250, an agitator can be fitted on the bottom disc to promote the flow of powdery fertilizer. Also use for the application of slags, lime or sand.

Never use an agitator with granular fertilizer.

Trailed L Carrier

The models L1500 and L2010 can be fitted on a carriage, so that a 3 point, PTO driven spreader turns into a trailed machine. The risk of soil structure damage is greatly reduced.

Hopper Extension

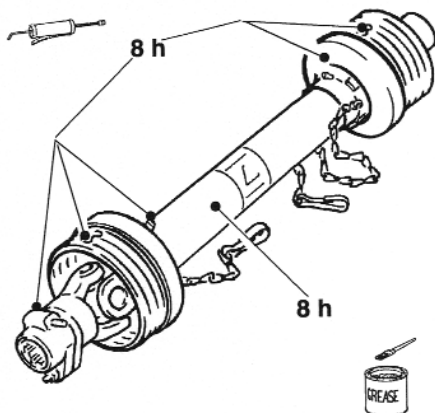
The capacity of the hopper of the model H can be increased by 200 lbs by fitting a hopper extension.

Supplement D

Technical Details

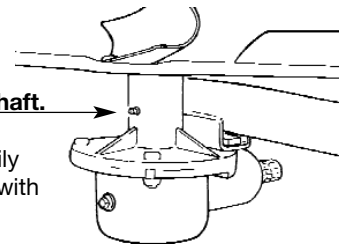
	H	L1250	L1500	L2010
Hopper capacity (cu.ft.) incl. hopper extension	11.5 cu. ft. 15.9 cu. ft.	19.4	24.7	31.8
Width x length (in" x in")	51 x 38	63 x 47	79 x 50	79 x 55
Filling height (in") incl. hopper extension	36 42	52	41	44
Weight (lb)	310	382	444	464
PTO speed (max. 540 rpm)	425 to 540 rpm			
Working width	(16 - 40 ft) depending on the type of fertilizer and PTO speed			
Linkage	Categories I & II			
Control	(optional) mechanical or hydraulic			
Oil of drive	SAE 80 W 90 (non foam, non detergent) Contents: 1 pint (.5 QT)			

All details are without engagement and may be altered without prior notice.



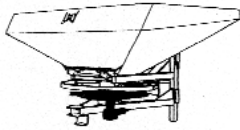
Ejector disc drive shaft.

Lubricate bearing daily
and prior to storage with
tractor grease.

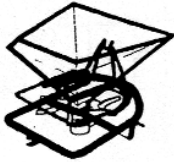




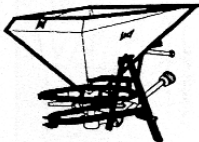
	Type Number	As From Serial Number



Transmission + ejector disc 2



Frame & hopper H 3

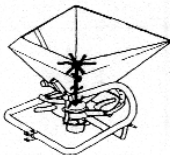


Frame + hopper L1250 4

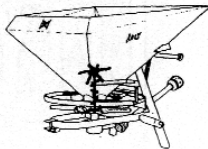


Frame & hopper L1500/2010 5

Decals 6



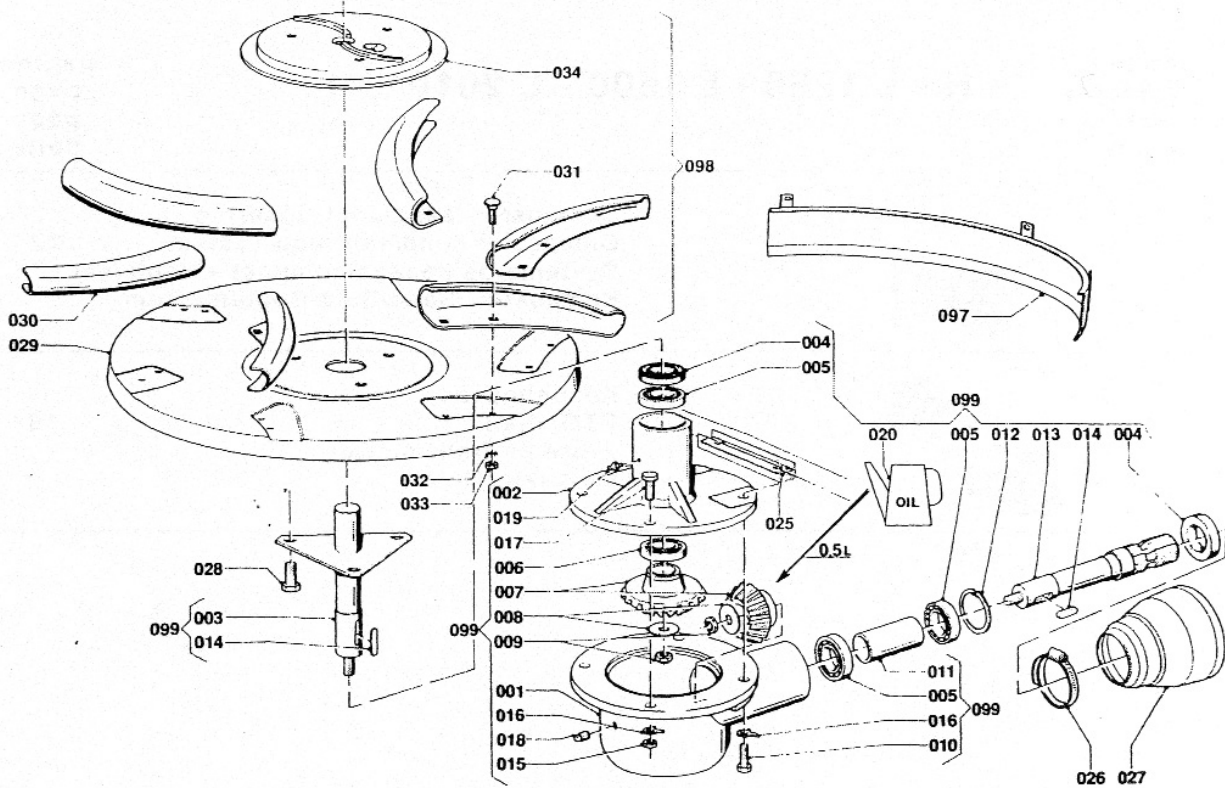
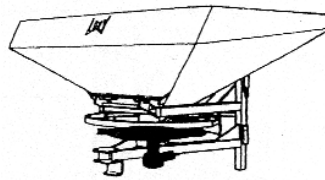
Agitator 7



Agitator for powdery fertilizer 7

On/off devices 7-12

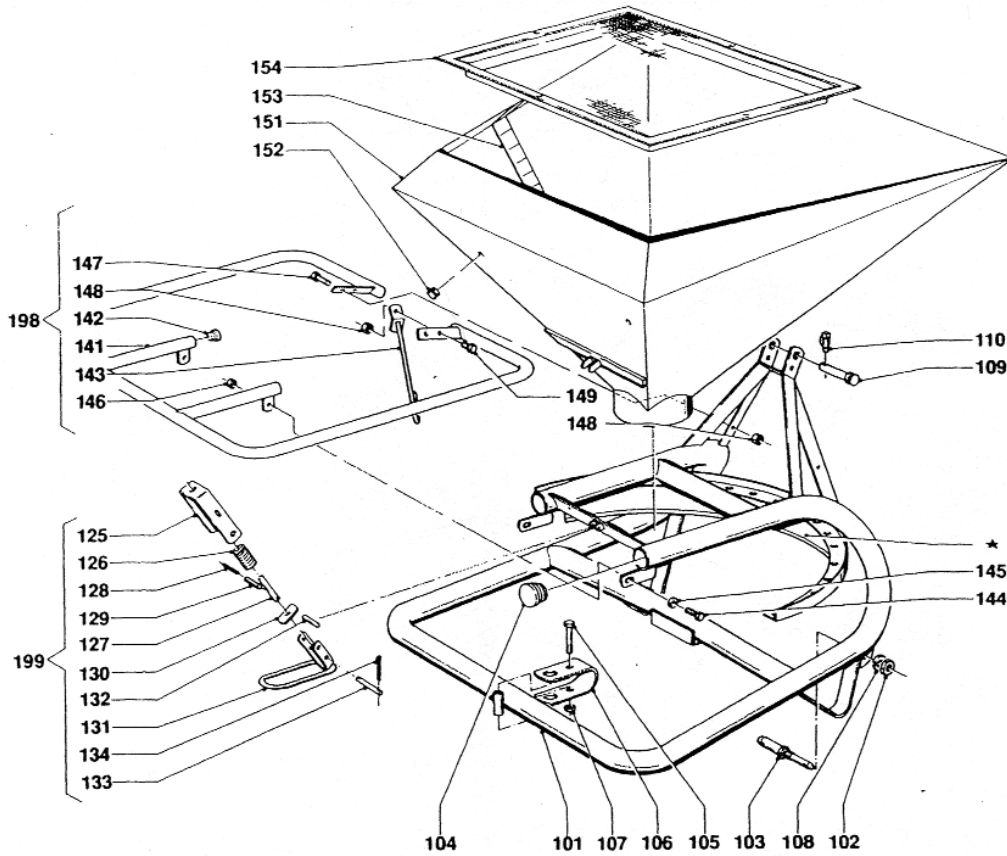
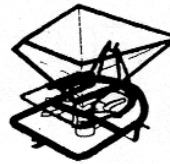
	Type Number	As From Serial Number
H L1250	2.3201.0000.1	ALL
	2.3205.0000.1	
	2.3205.9000.1	
L1500	2.3215.0002.1	
L2010	2.3216.0001.1	



REF.	Part Number	Quantity		REF.	Part Number	Quantity	
001	2.3201.0020.0	1		025	2.3205.0047.0	1	
002	2.3201.0040.0	1		026	9.1066.0016.6	1	Ø77-95
003	2.3201.0030.0	1		027	9.1161.0021.0	1	
004	9.1042.0009.2	2	35x55x08 CB	028	9.1113.0265.5	3	M12x20 DIN 933-8.8
005	9.1001.0082.4	3	6006 C3	029	2.3205.0207.0	1	
006	9.1001.0083.5	1	6006 Z C3	030	2.3205.0209.0	6	
007	2.3201.0023.8	1		031	9.1058.0036.6	12	M8x16 DIN 603-8.8
008	2.3201.0024.0	2		032	9.1051.0007.5	12	A8.5 DIN 6798
009	9.1030.0013.4	2	M12 DIN 985-8	033	9.1030.0020.4	12	M8 DIN 985-A2-2
010	9.1113.0125.5	2	M12x35 DIN 933-8.8	034	2.3205.0208.0	1	
011	2.3201.0022.0	1		097	2.3205.0099.0	(1)	
012	9.1120.0004.3	1	55x2.00 DIN 472	098	2.3205.0207.2	1	Ejector discs (complete)
013	2.3201.0021.0	1		099	2.3201.0010.0	1	=REF. 001-020
014	9.1070.0008.0	2	A8x7x30 DIN 6885				
015	9.1029.0008.0	4	M12 DIN 934-8				
016	9.1117.0001.3	4	13 DIN 463				
017	9.1113.0056.6	2	M12x55 DIN 931-8.8				
018	9.1131.0004.6	1	3/8"				
019	9.1068.0001.3	1	1/8"				
020	9.1171.0044.6	(0.5L)	0.7L ESSO GP80W90				



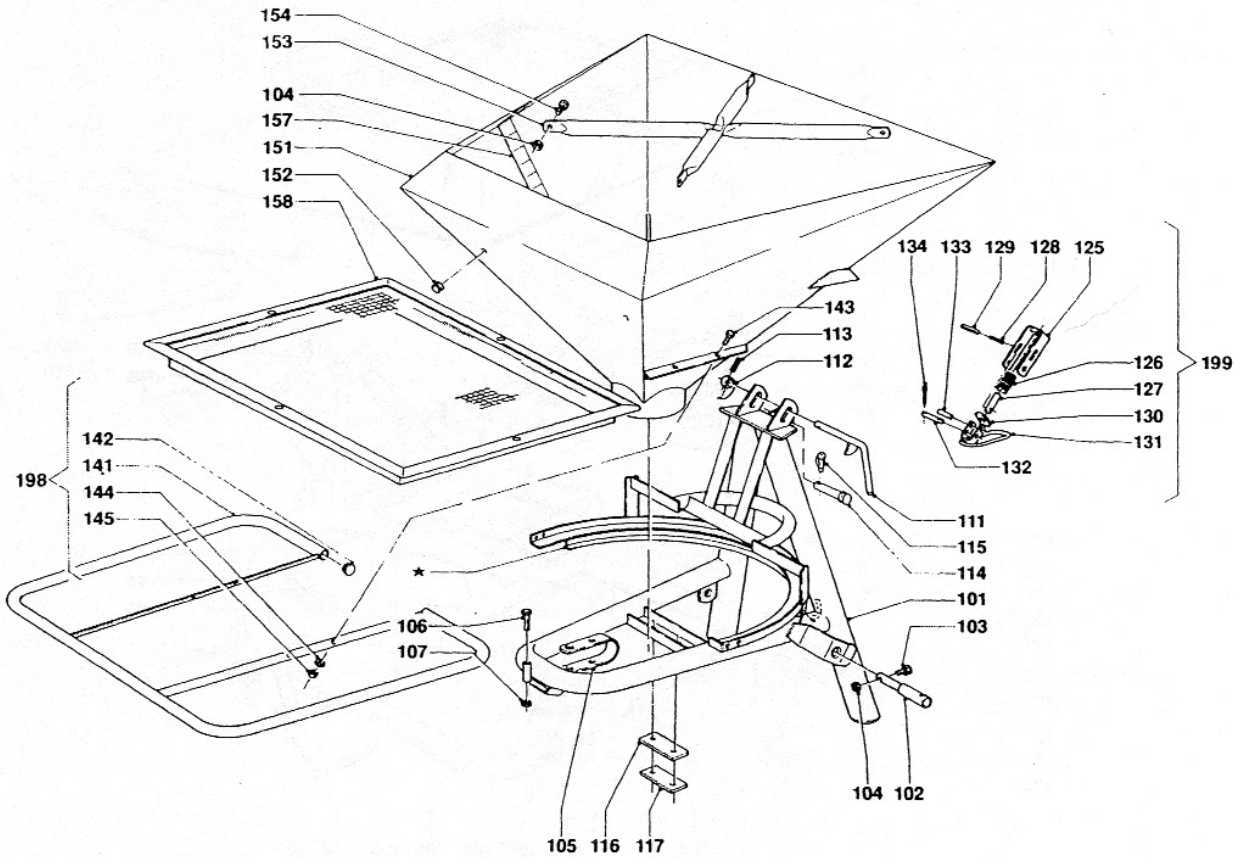
	Type Number	As From Serial Number
HR	2.3201.0000.1	ALL



REF.	Part Number	Quantity		REF.	Part Number	Quantity	
101	2.3201.0050.0	1	(= REF 097)	146	9.1030.0022.6	2	M10 DIN 985-A2-2
102	9.1029.0017.2	2	M24x1.5 DIN 934-8	147	9.1113.0202.5	2	M12x40 DIN 933-8.8
103	2.3201.0202.0	2		148	9.1030.0023.0	3	M12 DIN 985-A2-2
104	2.3201.0200.0	2		149	9.1113.0191.1	1	M12x30 DIN 933-8.8
105	9.1113.0064.0	1	M12x90 DIN 931-8.8	151	2.3201.0120.0	1	
106	2.3201.0201.0	1		152	9.1105.0006.6	2	
107	9.1029.0008.0	1	M12 DIN 934-8	153	9.1170.0149.0	1	300 L (REF. 171)
108	9.1121.0015.6	2	A24 DIN 127	154	2.3201.2000.0	(1)	W & H & L1250 Screen
109	9.1088.0005.1	1	25-95	198	2.3201.0210.0	1	= REF. 141-149
110	9.1123.0002.5	1	Ø11	199	2.3205.0010.0	1	= REF. 125-134 Hopper Latch
125	2.3205.0018.0	1					
126	2.3205.0014.0	1					
127	2.3205.0013.0	1					
128	9.1070.0024.3	1					
129	9.1070.0024.3	1	Ø5x60 DIN 1481				
130	2.3205.0015.0	1					
131	2.3205.0011.0	1					
132	2.3205.0017.0	1					
133	2.3205.0016.0	1					
134	9.1072.0004.2	2					
141	2.3201.0220.0	1					
142	9.1108.0085.6	4	Ø32				
143	2.3201.0230.0	1					
144	9.1113.0187.4	2	M10x30 DIN 933-8.8				
145	9.1048.0059.4	2	A10.5 DIN 125				



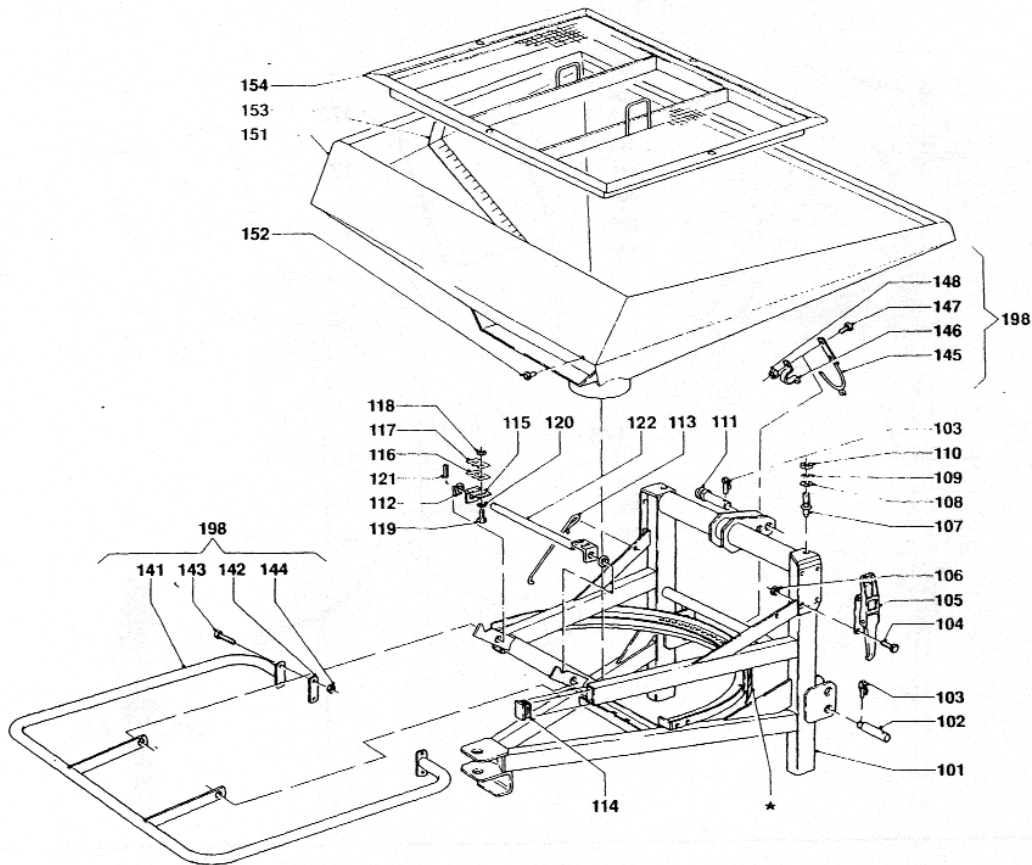
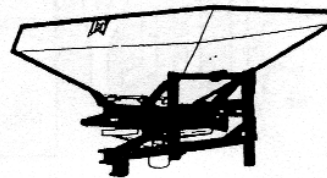
	Type Number	As From Serial Number
L1250	2.3205.0000.1	ALL
L1250	2.3205.9000.1	ALL



REF.	Part Number	Quantity		REF.	Part Number	Quantity	
101	2.3205.0170.0	1	(= RED 097)	141	2.3205..0290.0	1	
102	2.3205.0096.0	2		142	9.1108.0085.6	2	Ø32
103	9.1113.0305.3	2	M10x65 DIN 931-8.8	143	9.1113.0187.4	4	M10x30 DIN 933-8.8
104	9.1030.0022.6	6	M10 DIN 985-A2-2	144	9.1048.0051.3	4	A10.5 DIN 125
105	2.3201.0201.0	1		145	9.1030.0022.6	4	M10 DIN 985-A2-2
106	9.1113.0064.0	1	M12x90 DIN 931-8.8	151	2.3205.0001.0	1	
107	9.1030.0013.4	1	M12 DIN 985-8	152	2.3205.0001.0	1	
111	2.3205.0043.0	1		153	2.3205.0220.0	1	
112	2.3205.0040.0	1		154	9.1113.0183.0	4	M10x25 DIN 933-8.8
113	9.1070.0018.4	1	Ø6x40 DIN 1481	157	9.1170.0150.1	2	550 L (= REF 171)
114	9.1088.0005.1	1	25-95	158	2.3201.2000.0	(1)	W & H & L1250
115	9.1123.0002.5	1	Ø11				Screen
116	2.3205.0145.0	-	2 mm	198	2.3205.0280.0	1	= REF 141-145
117	2.3205.0059.0	-	5 mm	199	2.3205.0010.0	1	= REF 125-134
125	2.3205.0018.0	1					Hopper Latch
126	2.3205.0014.0	1					
127	2.3205.0013.0	1					
128	9.1070.0015.1	1	Ø5x60 DIN 1481				
129	9.1070.0024.3	1	Ø8x60 DIN 1481				
130	2.3205.0015.0	1					
131	2.3205.0015.0	1					
132	2.3205.0016.0	1					
133	2.3205.0017.0	1					
134	9.1072.0004.2	2	4x30 DIN 94				

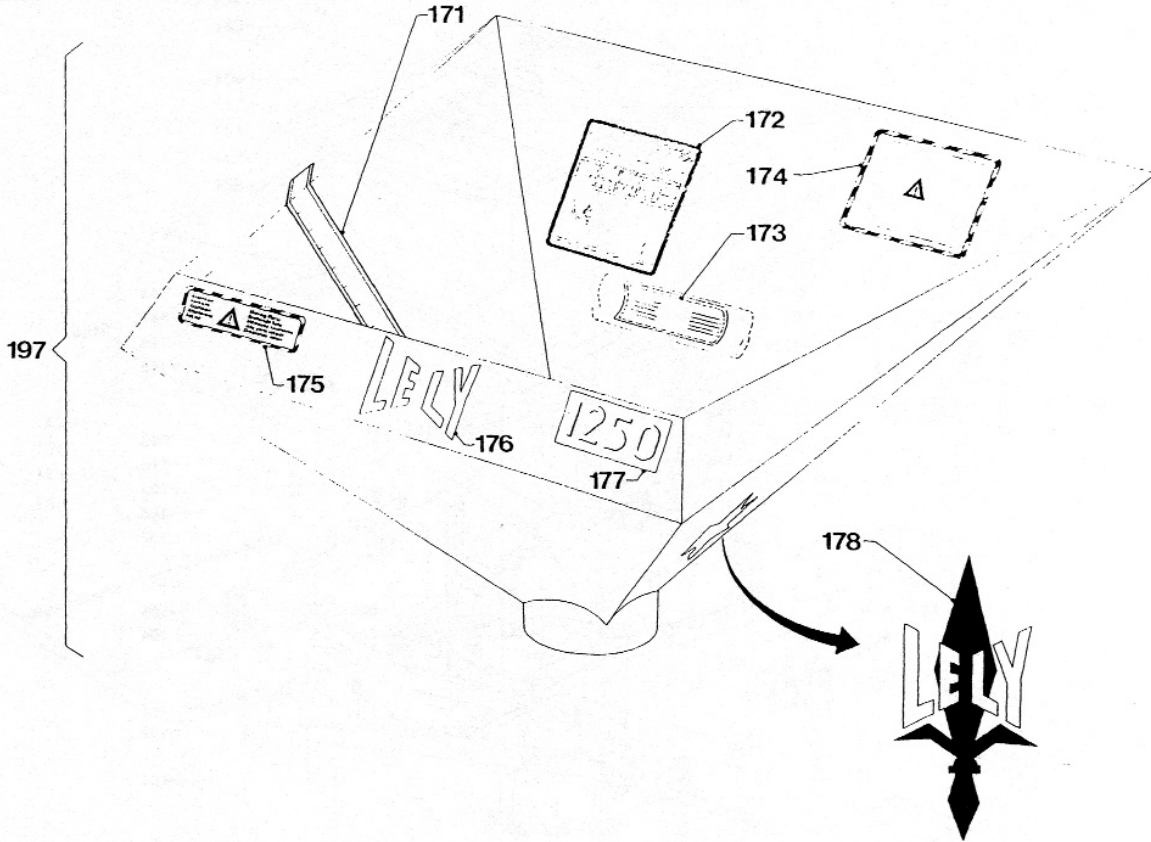
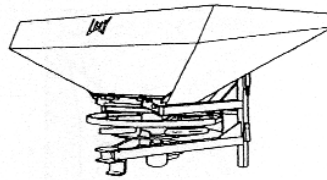


	Type Number	As From Serial Number
L1500	2.3215.0002.1	ALL
L2010	2.3216.0001.1	ALL



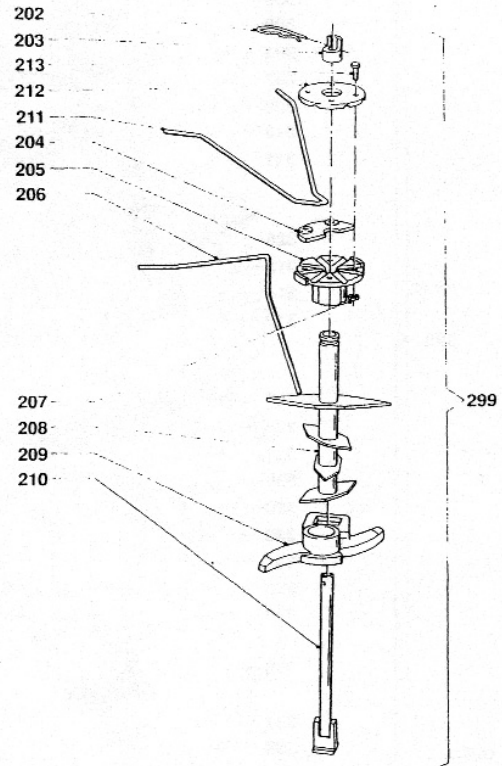
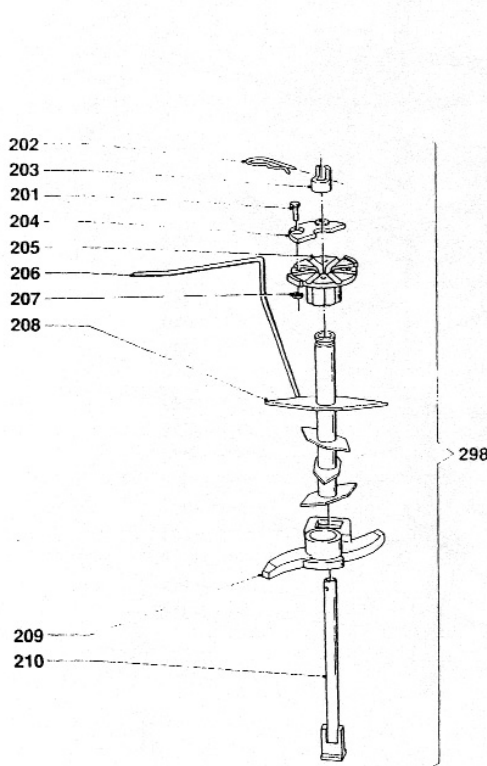
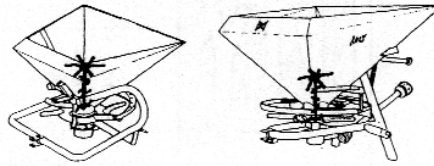
REF.	Part Number	Quantity		REF.	Part Number	Quantity	
101	2.3215.0022.0	1	(= REF 097)	141	2.3215.0120.0	1	
102	2.3215.1492.0	2		142	2.3215.0127.0	2	
103	9.1123.0002.5	3	Ø11	143	9.1113.0305.3	4	M10x65 DIN 931-8.8
104	9.1113.0186.3	8	M8 DIN 933-8.8	144	9.1030.0022.6	4	M10 DIN 985-A2-2
105	2.3216.1496.0	2		145	2.3215.0140.0	1	
106	9.1030.0020.4	8	M8 DIN 985-A2-2	146	9.1137.0927.6	1	
107	2.3216.1498.0	2		147	9.1113.0182.6	2	M8x25 DIN 933-8.8
108	9.1048.0077.1	-	A17 DIN125	148	9.1030.0020.4	2	M8 DIN 985-A2-2
109	9.1051.0012.3	2	A16.5 DIN 985-A2-2	151	2.3215.0071.0	1	L1500
110	9.1030.0034.4	2	M16 DIN 985-A2-2		2.3216.0091.0	1	L2010
111	9.1088.0005.1	1	25-95	152	9.1105.0006.6	2	
112	9.1048.0094.4	-	A28 DIN 125	153	9.1170.0151.2	2	L1500/700L (= REF 171)
113	2.3216.1495.0	1			9.1170.0152.3	2	L2010/900 L
114	9.1108.0026.2	2	60x40	154	2.3215.2000.0	(1)	L1500 & L2010 Screen
115	2.3215.1497.0	2		198	2.3215.0130.0	1	= REF 141-148
116	2.3215.1496.0	-	2mm				
117	2.3215.1493.0	-	5 mm				
	2.3215.1491.0	-	10 mm				
118	9.1030.0023.0	4	M12 DIN 985-A2-2				
119	9.1113.0207.3	4	M12x45 DIN 931-8.8				
120	9.1048.0076.0	4	14 DIN 126				
121	9.1070.0061.5	2	Ø8x40 DIN 1481				
122	2.3215.1490.0	1					

	Type Number	As From Serial Number
H L1250	2.3201.0000.1	ALL
	2.3205.0000.1	ALL
	2.3205.9000.1	ALL
L1500 L2010	2.3215.0002.1	ALL
	2.3216.0001.1	ALL



REF.	Part Number	Quantity			REF.	Part Number	Quantity	
171	9.1170.0149.0	1	300 L	W & H	197	2.3205.1999.0	1	= REF 172-178 W & H & L1250
	9.1170.0150.1	1	550 L	L1250				
	9.1170.0151.2	1	700L	L1500				
	9.1170.0152.3	1	900 L	L2010				
172	9.1170.0081.2	(1)	INSTR	W	197	2.3215.1999.0	1	= REF 172-178 L1500 & L2010
	9.1170.0058.0	1	INSTR	H & L1250				
	9.1170.0059.1	1	INSTR	L1500 & L2010				
173	9.1170.0069.4	1						
174	9.1170.0124.3	1						
175	9.1170.0052.1	1						
176	9.1170.0003.1	1	LELY	H & L1250				
	9.1170.0001.6	1	LELY	L1500 & L2010				
177	9.1170.0022.6	1	1250					
	9.1170.0050.6	1	1500					
	9.1170.0060.2	1	2010					
178	9.1170.0051.0	2	LELY					

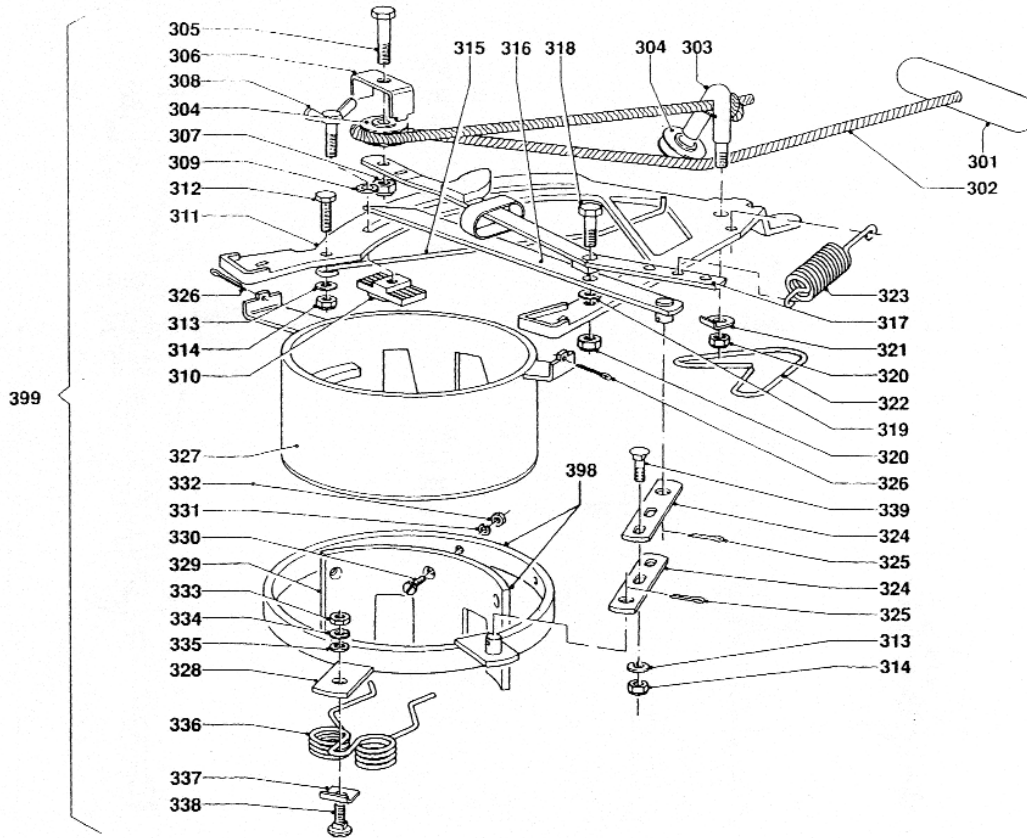
	Type Number	As From Serial Number
H L1250 L1250	2.3205.9000.1	ALL
	2.3205.0000.1	ALL
	2.3205.9000.1	ALL



REF.	Part Number	Quantity		REF.	Part Number	Quantity	
201	9.1113.0124.4	4	M6x25 DIN 933-8.8	202	9.1124.0001.3	1	Ø5
202	9.1124.0001.3	1	Ø5	203	2.3201.0468.0	1	
203	2.3201.0468.0	1		204	2.3201.0490.0	2	
204	2.3201.0490.0	2		205	2.3201.0491.0	1	
205	2.3201.0491.0	1		206	2.3201.0492.0	8	
206	2.3201.0492.0	8		207	9.1029.0002.1	4	M6 DIN 934-8
207	9.1029.0002.1	4	M6 DIN 934-8	208	2.3201.0480.0	1	
208	2.3201.0480.0	1		209	2.3201.0470.0	1	
209	2.3201.0469.0	1		210	2.3201.0470.0	1	
210	2.3201.0470.0	1		211	2.3201.2138.0	4	
298	2.3201.0460.0	1	= REF 201-210 Agitator	212	2.3201.2139.0	1	
				213	9.1113.0007.6	4	M6x35 DIN 931-8.8
				299	2.3201.2130.0	1	= REF 202-213 Agitator for powdery fertilizer

	Type Number	As From Serial Number
H L1250 L1500 L2010	2.3201.0000.1	ALL
	2.3205.9000.1	ALL
	2.3215.0002.1	ALL
	2.3216.0001.1	ALL

STANDARD FEEDRING

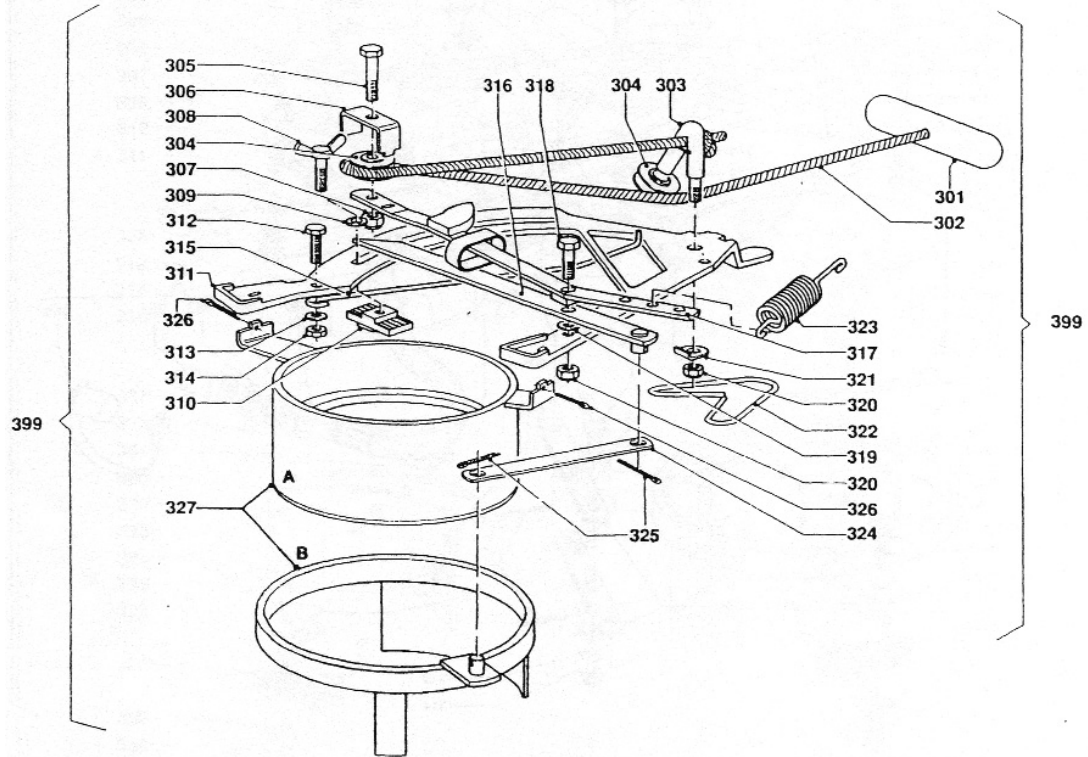


REF.	Part Number	Quantity		REF.	Part Number	Quantity	
301	2.3201.0328.0	1		328	2.3201.0300.0	1	
302	1.1655.0658.0	1	2750 mm (1m = 9.1163.0004.2)	329	2.3201.0299.0	1	
303	2.3201.0380.0	1		330	9.1060.0010.6	3	AM DIN 127
304	2.3201.0326.0	2		331	9.1121.0008.6	3	A6 DIN 127
305	9.1113.0054.4	1	M12x45 DIN 931-8.8	332	9.1029.0002.1	3	M6 DIN 934-8
306	2.3201.0341.0	1		333	9.1029.0005.4	1	M10 DIN 934-8
307	9.1030.0013.4	1	M12 DIN 985-8	334	9.1121.0004.2	1	A10 DIN 127
308	9.1062.0005.6	1	M10x30 DIN 316-G+4.6	335	9.1048.0007.1	1	10.5 DIN 125
309	9.1048.0009.3	1	A11.5 DIN 7989	336	2.3201.0260.0	1	
310	2.3201.0324.0	1		337	2.3201.0261.0	1	
311	2.3201.0320.0	1		338	9.1058.0013.4	1	M10x30 DIN 603
312	9.1119.0014.6	1	M8x20 DIN 933-8.8	339	9.1058.0022.6	2	M8x25 DIN 603
313	9.1048.0004.5	3	A8.4 DIN 125	398	2.3201.0290.8	1	=REF 328-332
314	9.1030.0012.3	3	M8 DIN 985-8	399	2.3201.0250.0	1	= REF 301-339 (Standard) On/Off device
315	2.3201.0323.0	1					
316	2.3201.0370.0	1					
317	2.3201.0350.0	1					
318	9.1113.0033.4	1	M10x45 DUB 931-8.8				
319	9.1048.0007.1	1	10 DIN 125				
320	9.1030.0004.2	2	M10 DIN 985-8				
321	2.3201.0325.0	1					
322	2.3201.0321.0	1					
323	2.3201.0322.0	1					
324	2.3201.0329.0	2					
325	9.1071.0004.2	2	4x30 DIN 94				
326	9.1072.0003.1	2	4x20 DIN 94				
327	2.3201.0270.0	1					

SMALL SEED FEEDING



	Type Number	As From Serial Number
H L1250	2.3201.0000.1	ALL
	2.3205.0000.1	ALL
	2.3205.9000.1	ALL
L1500 L2010	2.3215.0002.1	ALL
	2.3216.0001.1	ALL

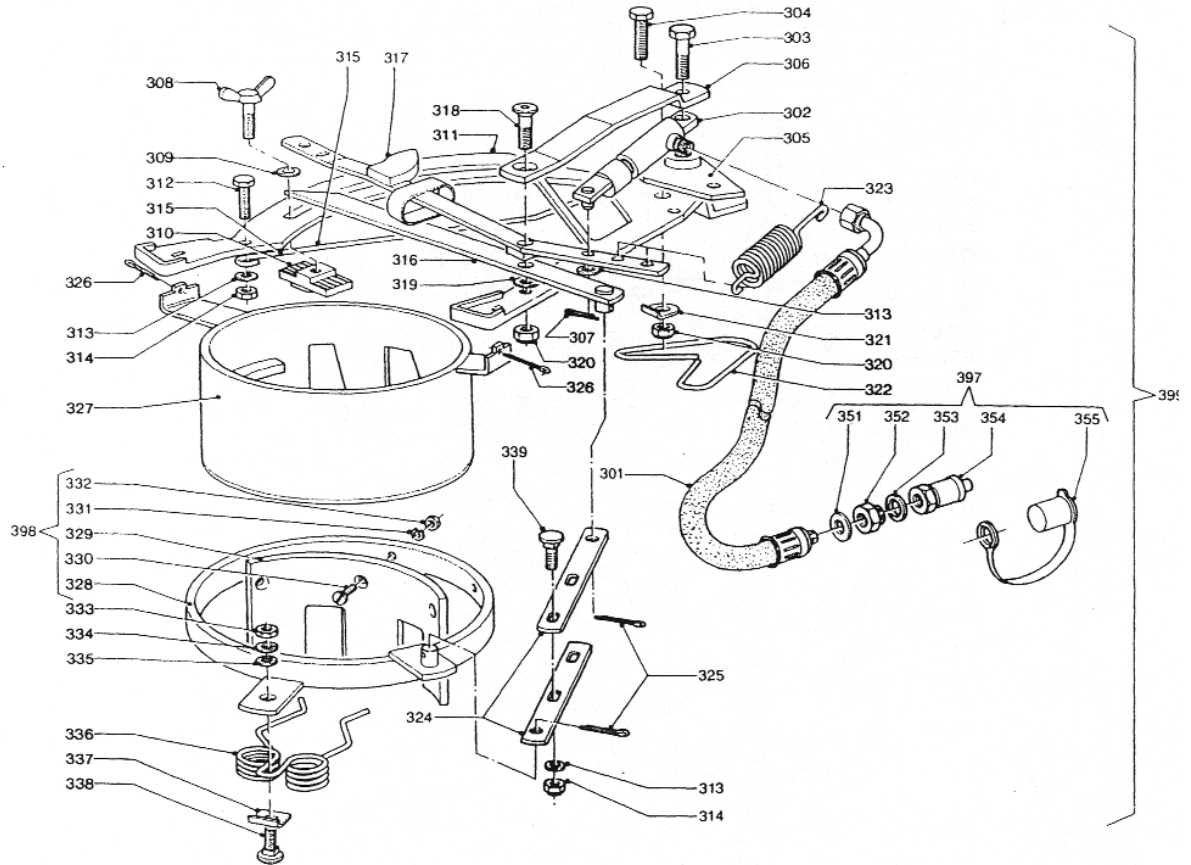


REF.	Part Number	Quantity		REF.	Part Number	Quantity	
301	2.3201.0328.0	1		399	2.3201.2210.0	2	= REF 301-327
302	1.1655.0658.0	1	2750 mm (1m=9.1163.0004.2)				On/Off Device (small seed)
303	2.3201.0380.0	1					
304	2.3201.0326.0	2					
305	9.1113.0054.4	1	M12x45 DIN 931-8.8				
306	2.3201.0341.0	1					
307	9.1030.0013.4	1	M12 DIN 985-8				
308	9.1062.0005.6	1	M10x30 DIN 316-G-4.6				
309	9.1048.0009.3	1	A11.5 DIN 7989				
310	2.3201.0324.0	1					
311	2.3201.0320.0	1					
312	3.1113.0014.6	1	M8x20 DIN 933-8.8				
313	9.1048.0004.5	1	A8.4 DIN 125				
314	9.10290004.3	1	M8 DIN 934-8				
315	2.3201.0323.0	1					
316	2.3201.0370.0	1					
317	2.3201.0350.0	1					
318	9.1131.0033.4	1	M10x45 DIN 931-8.8				
319	9.1048.0007.1	1	10 DIN 125				
320	9.1030.0004.2	2	M10 985.8				
321	2.3201.0325.0	1					
322	2.3201.0321.0	1					
323	2.3201.0322.0	1					
324	2.3201.0327.0	1					
325	9.1072.0004.2	2	4x30 DIN 94				
326	9.1072.0003.1	2	4x20 DIN 94				
327	2.3201.2210.1	1	(327=A+B)				

STANDARD HYDRAULIC



	Type Number	As From Serial Number
H	2.3201.0000.1	ALL
L1250	2.3205.9000.1	ALL
L1500	2.3215.0002.1	ALL
L2010	2.3216.0001.1	ALL

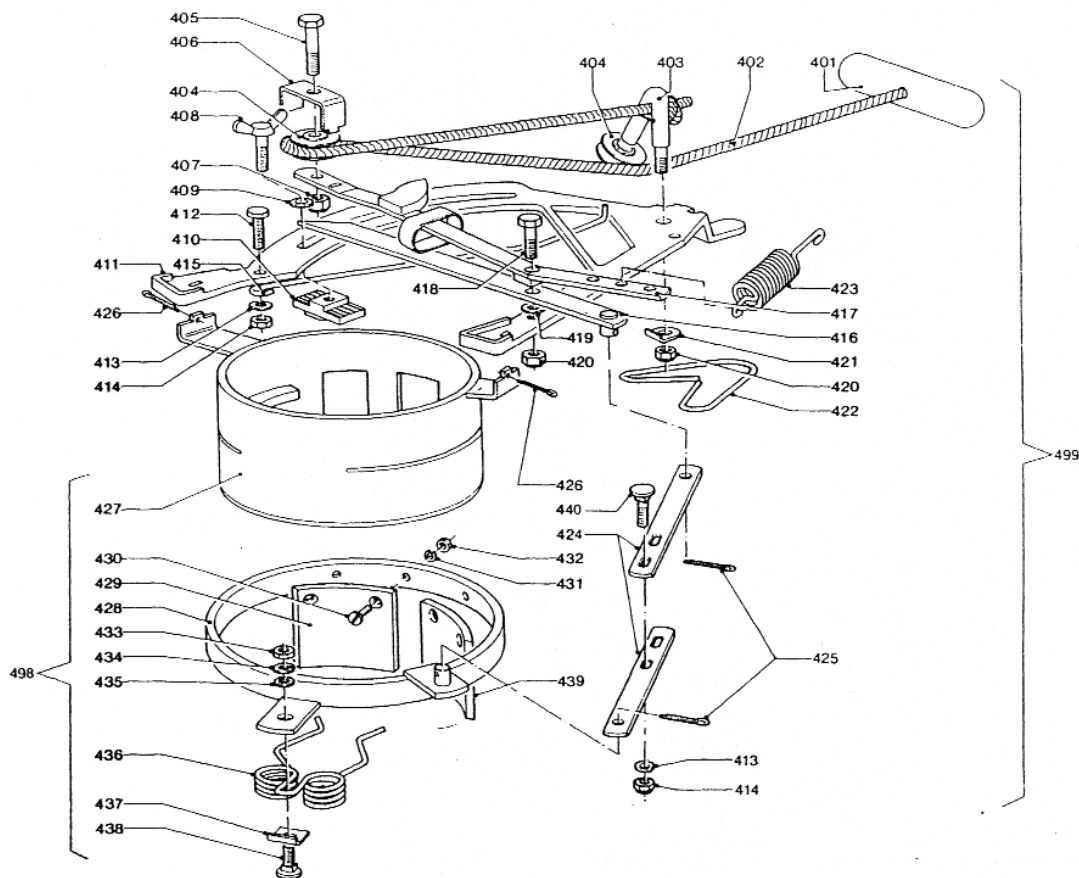


REF.	Part Number	Quantity		REF.	Part Number	Quantity	
301	2.3201.2311.0	1	L=1810 mm	328	2.3201.0300.0	1	
	4.1016.2120.0	(1)	L=3050 mm	329	2.32001.0299.0	1	
302	2.3201.2350.0	1		330	9.1060.0010.6	3	M6x20 DIN 63-A
303	9.1113.0149.1	1	M8x35 DIN 931-8.8	331	9.1121.0008.6	3	A6 DIN 127
304	9.1113.0120.0	1	M10x30 DIN 933-8.8	332	9.1029.0002.3.1	3	M6 DIN 934-8
305	2.3201.2380.0	1		333	9.1029.0005.4	1	M10 DIN 934-8
306	2.3201.2410.0	1		334	9.1121.0004.2	1	A10 DIN 127
307	9.1072.0022.6	1	2x12 DIN 94	335	9.1048.0007.1	1	A10.5 DIN 125
308	9.1062.0005.6	1	A11.5 DIN 7989	336	2.3201.0260.0	1	
309	9.1048.0009.3	1	A11.5 DIN 7989	337	2.3201.0261.0	1	
310	2.3201.0324.0	1		338	9.1058.0013.4	1	M10x30 DIN 603
311	2.3201.0320.0	1		339	9.1058.0022.6	2	M8x25 DIN 603
312	9.1113.0014.6	1	M8x20 DIN 933-8.8	351	9.11370401.5	1	Ø14x20x1.5 Cu
313	9.1048.0004.5	4	A8.4 DIN 125	352	9.1137.0603.4	1	1/2"-1?4"
314	9.1030.0012.3	3	M8 DIN 985-8	353	9.1137.0402.6	1	Ø22x29x1.5 Cu
315	2.3201.0323.0	1		354	9.1137.0302.4	1	1/2" G
316	2.3201.0370.0	1		355	9.1137.0303.5	1	1/2" PVC
317	2.3201.0370.0	1		397	2.3201.2312.8	1	= REF 351-355
318	9.1057.0300.5	1	M10x60 DIN 7991-8.8	398	2.3201.0290.8	1	= REF 328-332
319	9.10480007.1	1	A10.5 DIN 125	399	2.3201.2300.0	1	= REF 301-355 Hydraulic On/Off device
320	9.1030.0004.2	2	M10 DIN 985-8				
321	2.3201.0325.0	1					
322	2.3201.0321.0	1					
323	2.3201.0322.0	1					
324	2.32201.0329.0	2					
325	9.1072.0004.2	2	4x30 DIN 94				
326	9.1072.0003.1	3	4x30 DIN 94				
327	2.3201.0270.0	1					

MASS FEEDRING



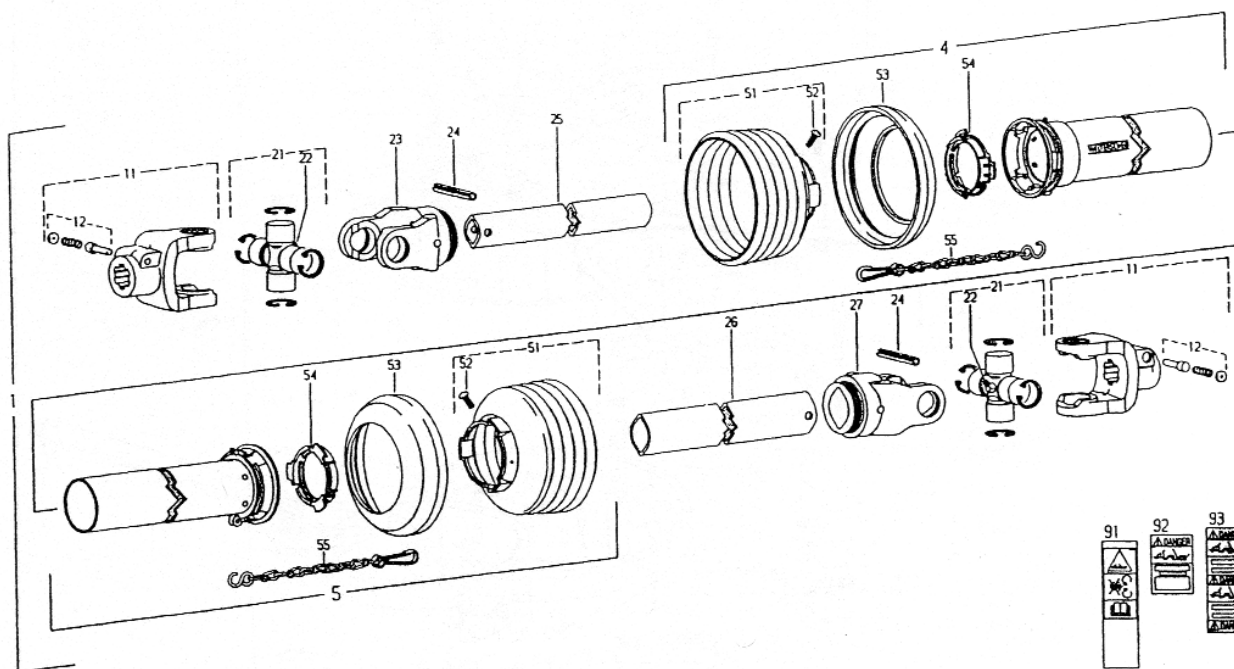
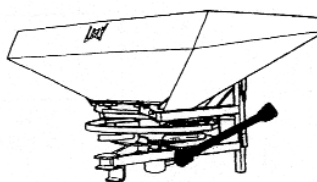
	Type Number	As From Serial Number
H	2.3201.0000.1	ALL
L1250	2.3205.9000.1	ALL
L1500	2.3215.0002.1	ALL
L2010	2.3216.0001.1	ALL



REF.	Part Number	Quantity		REF.	Part Number	Quantity	
401	2.3201.0328.0	1		426	9.1072.0003.1	2	4x20 DIN 94
402	1.1655.0658.0	1	2750 mm (1m = 9.1163.0004.2)	427	2.3201.2160.0	1	
403	2.3201.0380.0	1		428	2.3201.2180.0	1	
404	2.3201.0325.0	2		429	2.3201.2179.0	1	
405	9.1113.0054.4	1	M12x45 DIN 985-8	430	9.1060.0010.6	4	AM6X20 DIN 63-5.8
406	2.3201.0341.0	1		431	9.1121.0008.6	4	A6 DIN 127
407	9.1030.0013.4	4	m12 DIN 985-8	432	9.10290002.1	4	M6 DIN 934-8
408	9.1062.0005.6	1	M10x30 DIN 316-G-4.6	433	9.10290005.4	1	M10 DIN 934-8
409	9.1048.0009.3	1	A11.5 DIN 7989	434	9.1121.0004.2	1	A10 DIN 127
410	2.3201.0324.0	1		435	9.1048.0007.1	1	A10.5 DIN 125
411	2.3201.0320.0	1		436	2.3201.0260.0	1	
412	9.1113.0014.6	1	M8x20 DIN 933-8.8	437	2.3201.0261.0	1	
413	9.1048.0004.5	3	A8.4 DIN 125	438	9.1058.0013.4	1	M10x30 DIN 603
414	9.1030.0012.3	3	M8 DIN 985-8	439	2.3201.2178.0	1	
415	2.3201.0323.0	1		440	9.1058.0022.6	2	M8x25 DIN 603
416	2.3201.2190.0	1		498	2.3201.2158.0	1	= REF 425-439
417	2.3201.0650.0	1		499	2.3201.2150.0	1	= REF 401-440 On/off device for big output
418	9.1113.0132.5	1	M10x50 DIN 931-8.8				
419	9.1048.0007.1	1	M10.5 DIN 125				
420	9.1030.0004.2	2	M10 DIN 985-8				
421	2.3201.0325.0	1					
422	2.3201.0321.0	1					
423	2.32201.0322.0	1					
424	2.3201.2156.0	2					
425	9.1072.0004.2	2	4x30 DIN 94				



	Type Number	As From Serial Number
H	2.3201.0000.1	ALL
L1250	2.3205.9000.1	ALL
L1500	2.3215.0002.1	ALL
L2010	2.3216.0001.1	ALL



REF.	Part Number	Quantity	
1	9.1154.0011.4	1	W2102-SD05-710 = REF 11-93
4	85.005	1	SDH05 550 mm
5	85.004	1	SDH05 550 mm
11	10.10.00	2	1.3/8" (6)
12	33.91.07	2	AGRASET 101
21	10.01.00	2	
22	63.27.00	2	MB8x1
23	10.48.00	1	RG2100-00a
24	9.1070.0023.2	2	Ø8x50 DIN 1481
25	75.06.15	1	00a; L= 620 mm
26	75.12.15	1	0a;L = 605 mm
27	10.49.00	1	RG2100-0a
51	85.05.05	2	n=5
52	60.15.00	2	4x10
53	83.10.03	2	
54	83.09.01	2	
55	82.36.03	2	
91	16.61.175	1	
92	38.33.33	1	
93	38.33.34	1	

