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www.varmolift.fi


 +358 8 7727 300

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General safety instructions

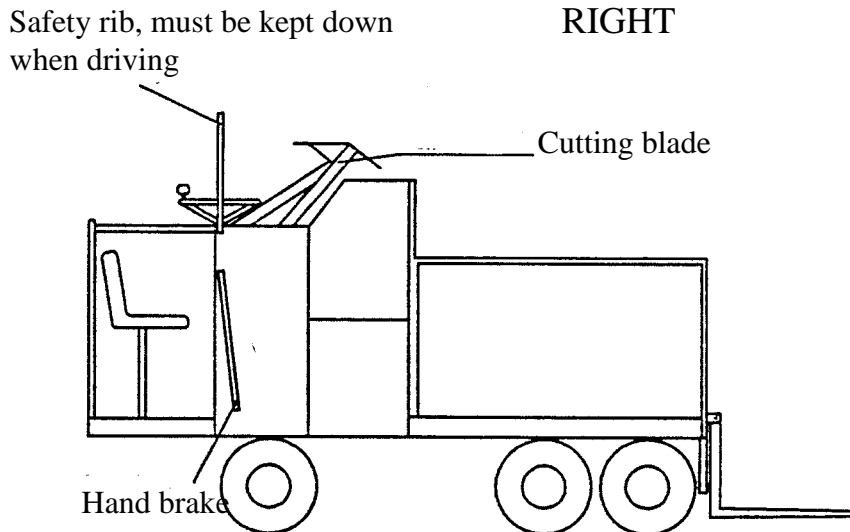
When operating this wagon the operator must exercise sufficient care to ensure that no damage is caused to the operator, other persons, animals, the environment or any structures.

The VARMOLIFT SUPER Fodder distribution wagon is intended to distribute fodder preserved using various preservation methods (roll bales, flat hoppers, bunkers) and fresh fodder to animals.

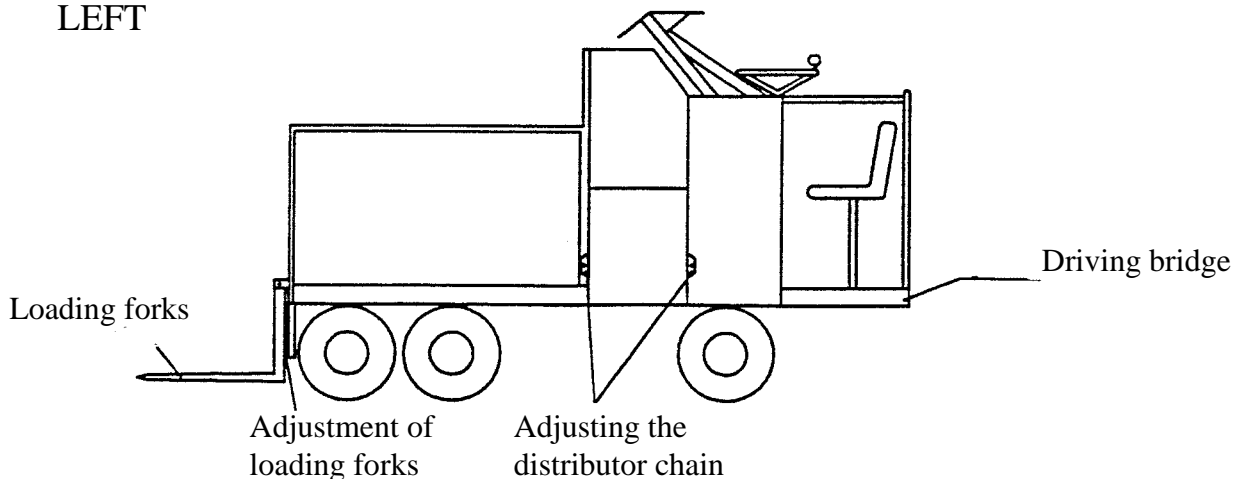
Operating the wagon

Before operating the wagon the operator must carefully study these operating, maintenance and safety instruction. The wagon must not be operated by children and persons not familiar with these instructions.

GENERAL VIEW FROM THE
RIGHT

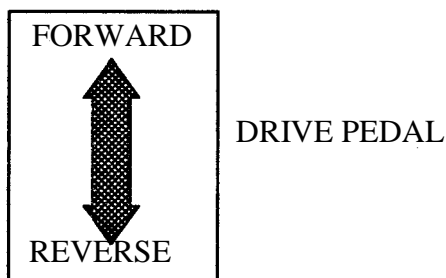
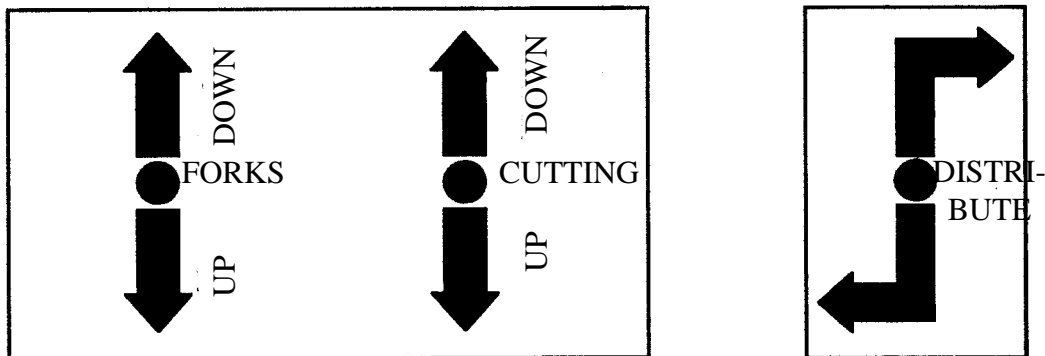


GENERAL VIEW FROM THE
LEFT



General information on commissioning of equipment

All the functions of the machine are hydraulic. The operations are controlled by the machine's valve unit according to the provided diagram. Before starting to distribute fodder test the functions of the machine without fodder with the engine running.

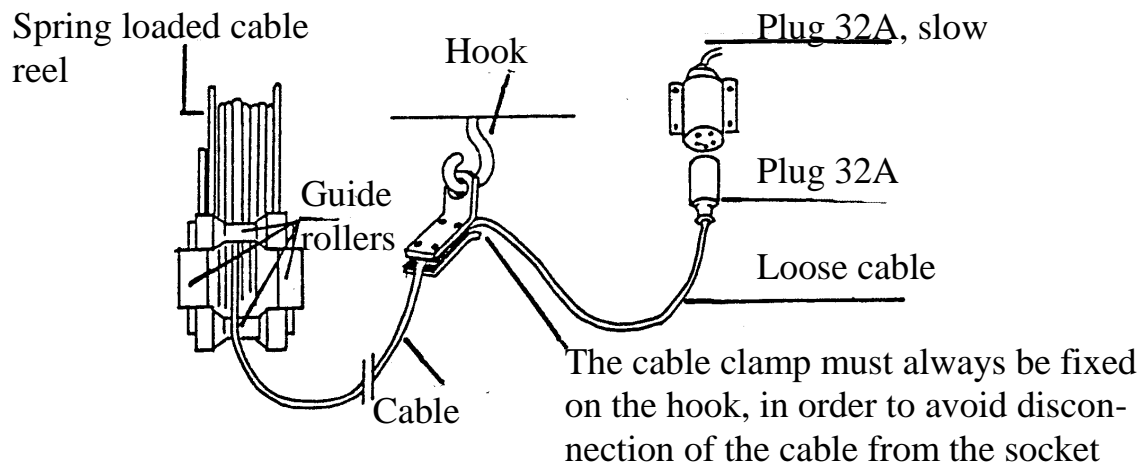


Commissioning of an electric machine

Before connecting the plug in the socket outlet it is necessary to check the cable; monitor the cable during operations to ensure that it is not damaged in a way that could cause an electric shock. It is strictly prohibited to use a damaged plug, socket outlet or cable. When using the machine it is necessary to ensure that humidity does not cause an electric shock hazard. The cooling holes of the motor must be kept clean. When washing the machine care must be taken to prevent penetration of water in the electric equipment of the machine. When the machine is working care must be taken to ensure that the cable is guided back to the reel accurately without causing any damage. There is ca 30 m of cable on the reel, and it is necessary to check its running out. Stop the machine when the cable is fully unrolled save of ca two loops. When the plug is inserted in or taken out from the socket outlet it is necessary to grasp the cable by hand so securely, that the cable does not rip itself loose and wind freely back on the reel.

Connect the plug in the socket as shown in the adjacent figure, fixing the cable clamp to the hook allowing to tighten the cable. The cable must hang on the clamp, and under no circumstances on the plug, when the plug is connected to the socket. The cable between the socket and the clamp must be loose.

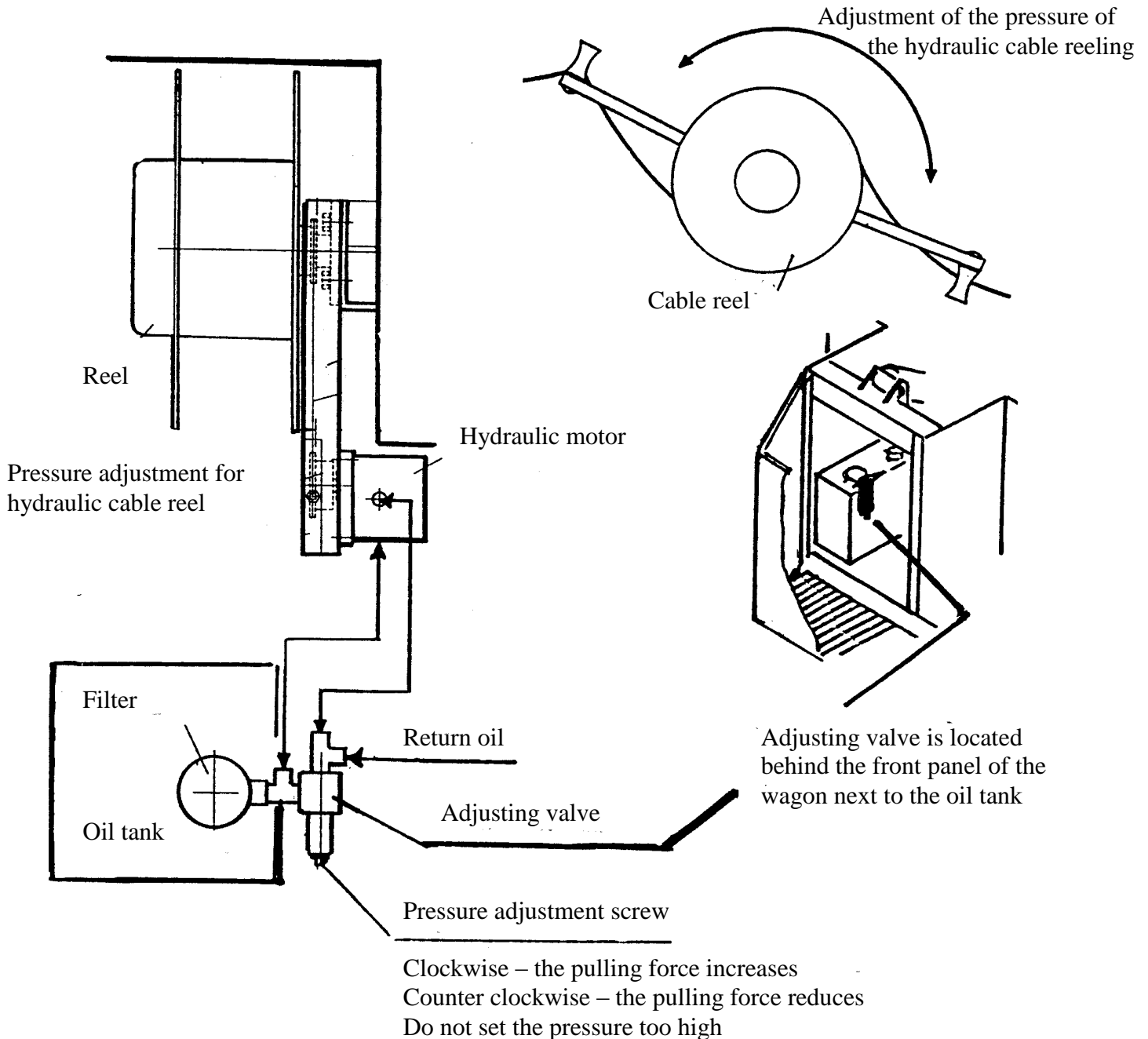
Connect the plug in the socket as shown in the adjacent figure, fixing the cable clamp to the hook allowing to tighten the cable. The cable must hang on the clamp, and under no circumstances on the plug, when the plug is connected to the socket. The cable between the socket and the clamp must be loose.



Start the electric motor using the switch on the machine. Immediately check the motor rotation direction. If the machine does not function when its control equipment, i.e. the valve unit is operated, the rotation direction is incorrect. In such case stop the motor immediately, because such incorrect rotation direction can damage the machine's hydraulic pump. The motor's rotation direction must be switched to a correct one and this can be performed only by a person with appropriate authorisation.

Cable guide rolls

The cable reel is equipped with cable guide rolls. The rolls are attached to the rod that can be articulated 180 degrees. Articulation allows positioning the socket outlet either in front or behind the operator. If the socket outlet is positioned in front of the operator and the cable runs over the load section it is necessary to take care during work that the cable is not crushed between machine parts.



Driving the machine

Special care must be exercised when driving the machine. Before moving off it is necessary to ensure that there are no objects, animals or persons under or around the machines or on its driving path, who could be harmed by moving off or driving the machine. Moreover, it is necessary to ensure that the machine is not too close to any buildings or structures in order to avoid hitting them when the machine sets off.

Before moving off it is necessary to ensure that the direction of the drive engine wheel is appropriate, so that the machine is not going to bump into objects, buildings, people or animals. When the wheel is placed at a 90 degrees angle in respect to its longitudinal axis it is necessary to be particularly careful when moving the machine off, particularly when the machine is loaded with fodder. When the machine sets off the control lever must be used in a manner preventing any damages, i.e. it is necessary to ensure that the machine does not bump into any obstacles. At curves and corners the driving speed must be adjusted to prevent crushing of the machine against obstacles and overturning. It is absolutely prohibited to drive the machine on slopes where the machine can overturn. It is forbidden to drive over possible obstacles on the path of the machines that could overturn the machine. During driving the loading forks must be in the load area of the machine pointing straight up. When driving the machine the driver must be on the driving bridge and the safety rib must be down and locked. When driving care must be taken to avoid bumping of the machine into any milking, air conditioning etc. pipelines.

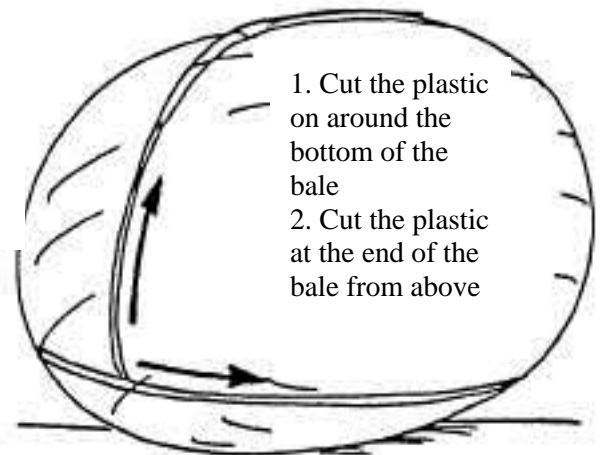
THE DRIVER MUST ENSURE THAT DURING DRIVING NO BODY PART OF THE DRIVER CAN HIT ANY STRUCTURES OR BUILDINGS ABOVE OR BESIDE THE MACHINE.

Loading of roll bales from the floor

If a roll bale is wrapped in plastic remove the cover as shown on the figure.

1. Cut the plastic on around the bottom of the bale.
2. Cut the ends of the bale open.
3. Remove the plastic, cut the cords or the net and remove them.

4. Slip the forks under the bale and lift the bale on the machine in the same way as when loading chunk fodder.



1. Cut the plastic on around the bottom of the bale
2. Cut the plastic at the end of the bale from above

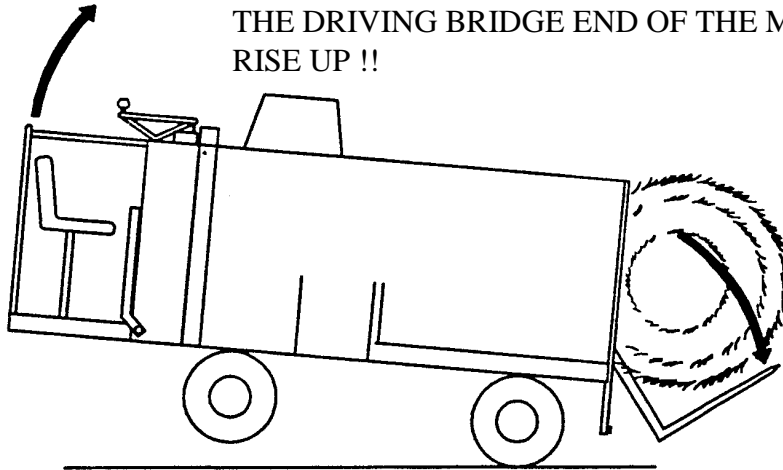
5. When the bale is loaded return the forks by 10 cm back using the *Moving the forks forward* lever. This helps to remove any loose plastic and cords on the bottom of the bale.
6. After operation 4, when a suitable quantity of fodder has been moved for cutting, return the forks by ca 5 cm. Thus fodder between the forks and the cutting blade is freed and cutting is easier, and fodder is not squashed between the forks and the cutting blade.
7. Do not move the fodder too much to the cross conveyor of the cutting blade, because too much fodder can make the cutting and distributing of fodder more difficult. The proper cutting quantity is a slice of ca 5-10 cm cut from the chunk or the bale, which amounts to ca 3-5 single portions for the animals.
8. Return forks approx 5 cm from handle *Forks down*
9. Cut pieces by using lever *Cutting down*
10. Lift blade approx 10 cm from lever *Cutting up*. In this way You prevent the feed table from moving unnecessarily.
11. Distribute the wanted amount of fodder by using lever distribution to the direction You want feed to so to repeat points 7, 8, 9, 10 and 11. You can load 2 bales on machine.

WARNING!

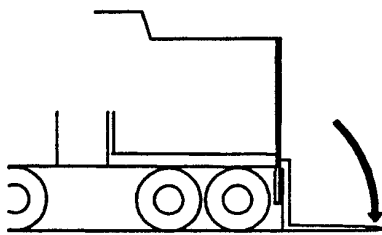
MOVE THE ROLL BALE SECURELY ON THE PLATFORM TO PREVENT IT FROM ROLLING BACK ON THE FORKS, WHEN YOU MOVE THE FORKS BACK. A BALE THAT ROLLS BACK ON THE FORKS CAN CAUSE A DANGEROUS SITUATION.

BEFORE CUTTING A SLICE OF THE BALE ALWAYS MOVE THE FORKS BACK BY CA 10 CM. FAILURE TO MOVE THE FORKS BACK CAN CAUSE DEFORMATION OF THE FORKS.

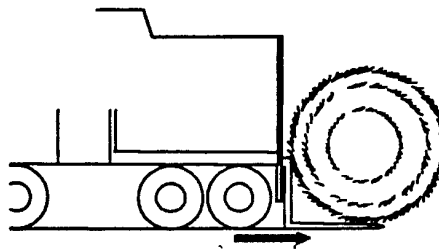
IF A BALE ROLLS FREELY BACK TO THE FORKS
THE DRIVING BRIDGE END OF THE MACHINE CAN
RISE UP !!



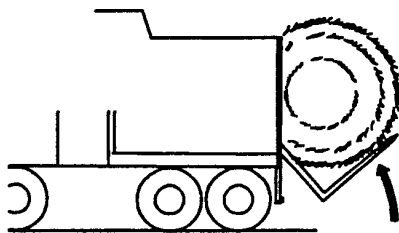
Loading and distributing a chunk or a roll
bale



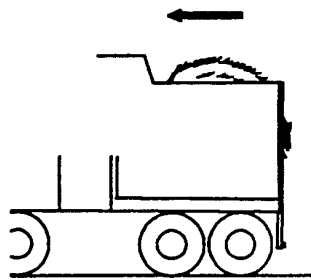
1. Lowering the forks



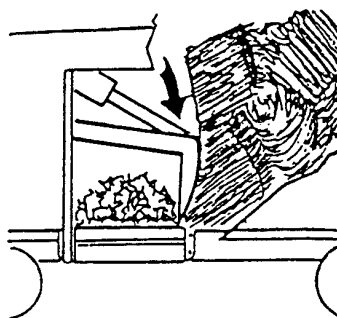
2. Slipping the forks under
fodder



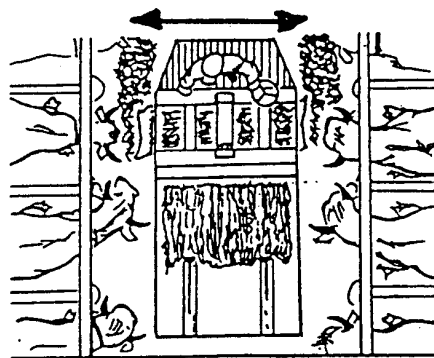
3. Loading of fodder



4. Moving of fodder on the cutting blade



5. Cutting fodder



6. Fodder feeding for animals from
both sides

Storing the machine

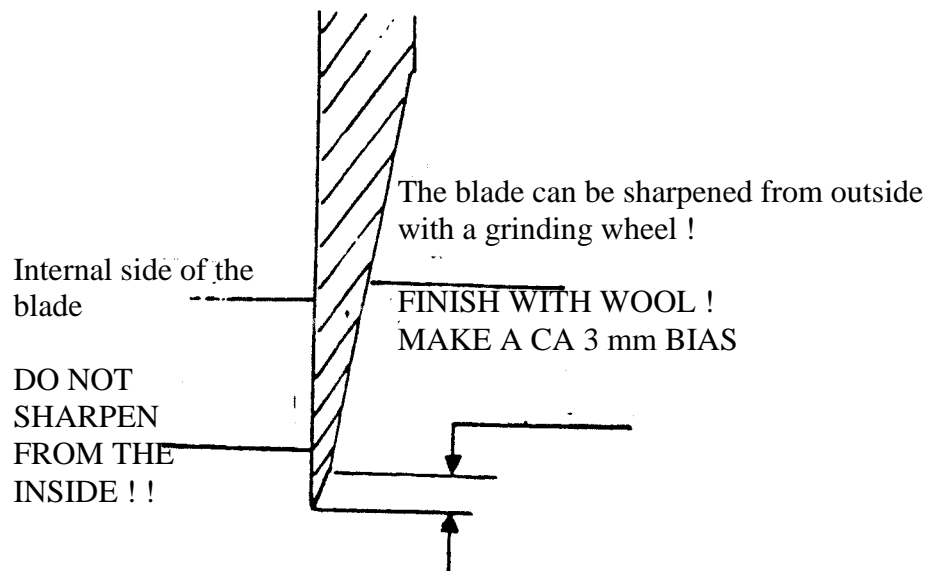
When preparing the machine for storage:

- Always lower its cutting blade.
- The loading forks must stay in the bed in an upright position.
- The plug of an electrically powered machine must be removed from the socket.
- The ignition key of an internal combustion engine powered machine with a starter must always be kept in a place where children cannot have an access to it.
- The hand brake of the machine must be switched on if the machine is left in a warehouse or left alone even for a moment.

Machine maintenance

Sharpening of the cutting blade

Keep the cutting blade of the cutter sharp and sharpen it when necessary according to the instructions given.

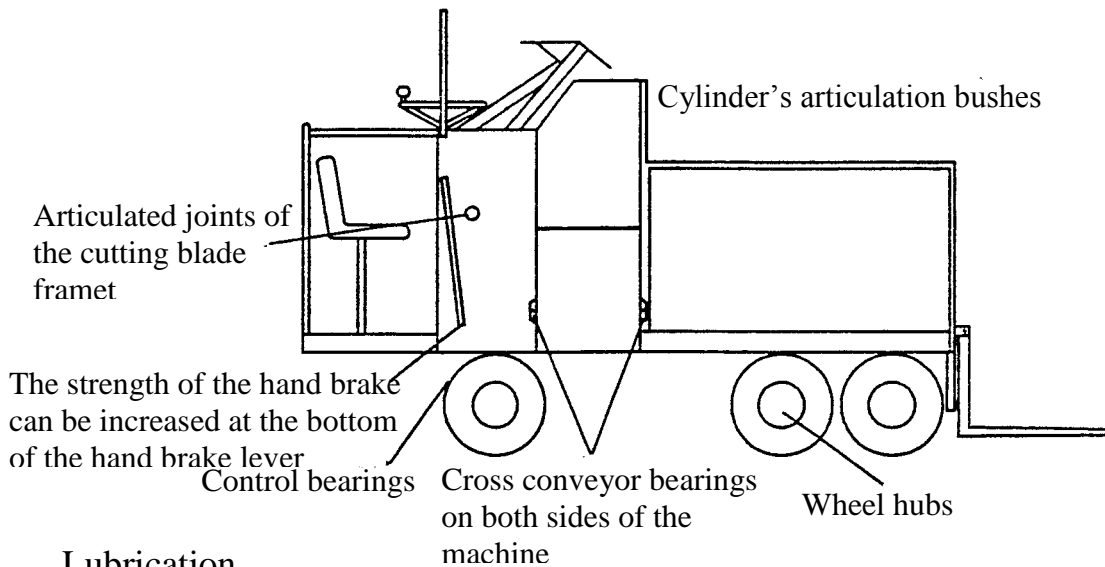


Removed replace / air pressure of drive wheel

Max. pressure for vehicle tires 5 bar

Release pressure while removing or installing time for safety purposes

Lubrication and maintenance points of the machine



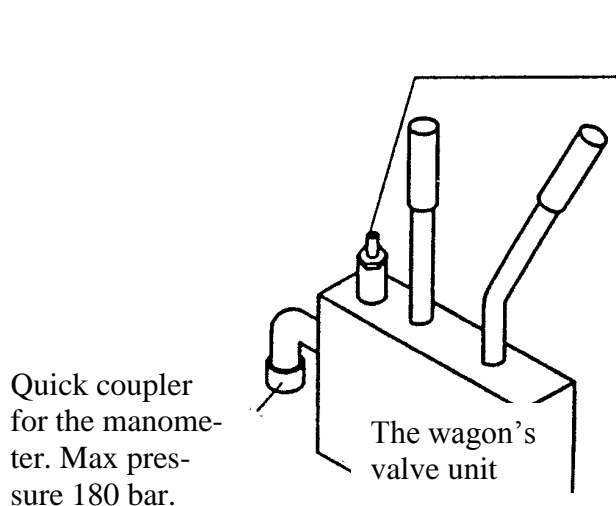
Lubrication

Lubricate the points indicated on the figure with Vaseline once a year.

Check the hydraulic oil level in the hydraulic tank of the machine using the dipstick on its cover. The correct oil volume is 30 l. Change the oil once a year. Normal hydraulic oil can be used in the hydraulic system. Change the oil filter once a year.

Other maintenance

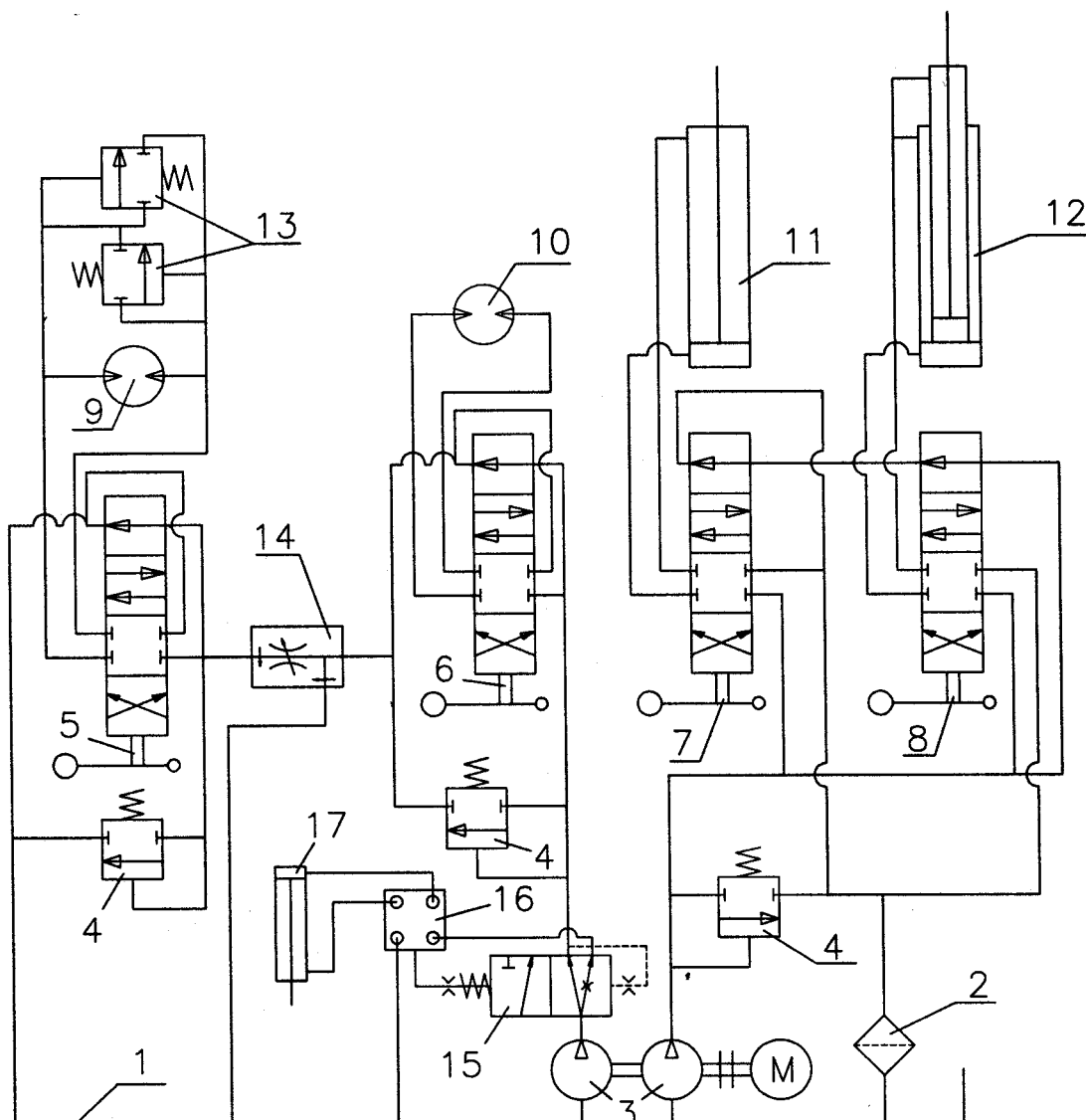
- **Keep the internal combustion engine or electric motor compartment always clean to prevent fires.**
- Add fuel in the internal combustion engine tank when the engine is cold
- Keep the cross conveyor chain properly tightened, i.e. the bottom chain must be at a distance of ca cm from the bottom plate.
- Inspect the machine's hydraulic system to find any possible leaks and if problems are discovered, eliminate them forthwith.
- The hydraulic pressure is adjusted at the manufacturing plant and it must not be changed without the manufacturer's consent.
- If you wish to adjust the pressure, do it as shown on the adjacent figure.



Pressure adjustment screw.
Clockwise – pressure is increased;
counter-clockwise – pressure is reduced.
13 mm ring spanner and 4 mm hexagonal spanner are required to adjust the pressure

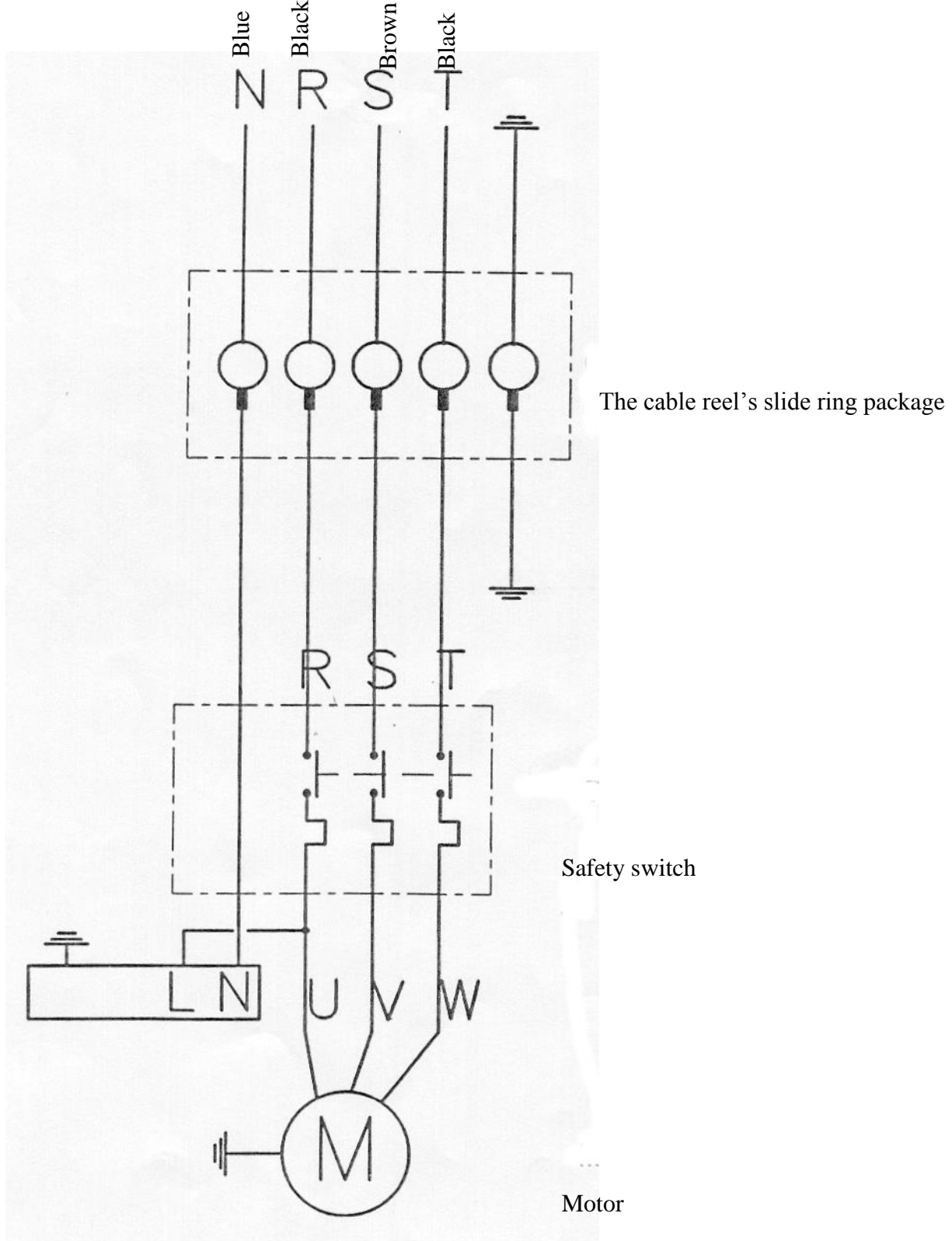
HYDRAULIC DIAGRAM OF THE VARMOLIFT SUPER

- | | |
|--------------------------------------|--|
| 1. Oil tank | 10. Conveyor engine |
| 2. Return filter | 11. Cutter cylinder |
| 3. Double pump 16+11 el. | 4. Chunk moving cylinder |
| 3. Double pump 8+6 combustion engine | 5. Drive overload valve |
| 4. Pressure limiter | 6. Drive pressure control valve RF/G
(not in use) |
| 5. Driving engine valve | 7. Distribution valve PRD80/7 |
| 6. Conveyor valve | 8. Control valve HKUS63/5 |
| 7. Cutter valve | 9. Steering cylinder |
| 8. Chunk moving valve | |
| 9. Driving engine | |



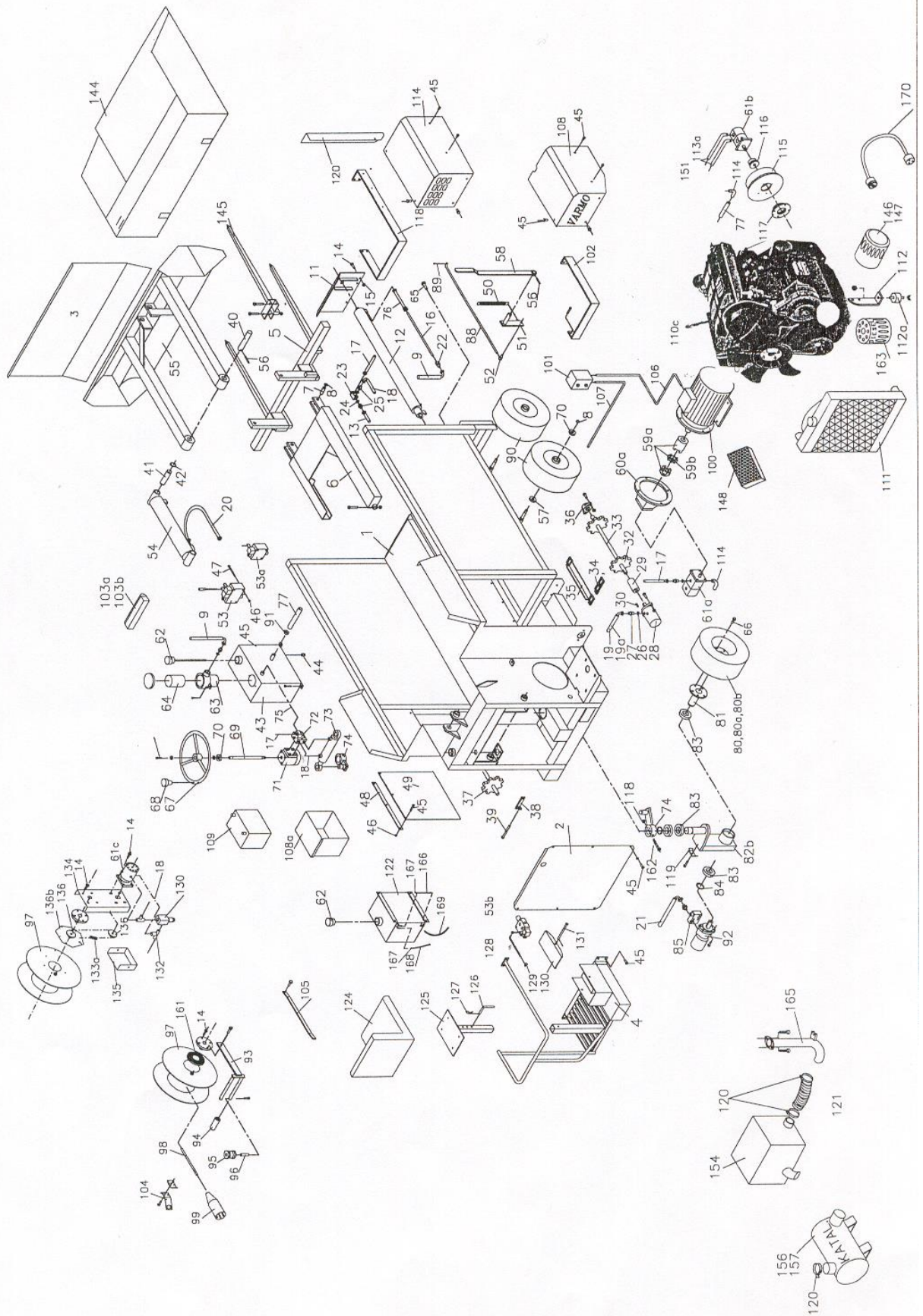
Wiring diagram of an electric wagon

The direction of rotation of the motor changes when the R and T wires are interchanged. Only an authorised person may change the position of the wires.



REHUNJAKOVAUNU Super

Vititeestä saadaan varaosanumero kun alkuun lisätään 25
Esim. Vitite 001 varaosanumero on 25001



Spare part list

Varmolift Super Fodder wagon					
Nr	Items	Pc			
25001	Frame	1	25046	K-nut M8	9
25002	Shield	1	25047	K-screw M8x60	6
25003	Back plate (option)	1	25048	Fixing bar	2
25004	Driving bridge	1	25049	Rubber flap	2
25005	Lifting fork	1	25050	Draw spring	1
25006	Moving frame	1	25051	Joint	1
25007	Joint pin 20x75	2	25052	Adjusting joint	1
25008	Lock ring A20	6	25053	Valve SD5/4	1
25009	Hydr.hose 1/2" 0.75m	2	25053a	Valve SD4/1	1
25011	Back plate	1	25053b	Valve SD5/1	1
25012	Cylinder 70/40/32	1	25054	Cylinder 90/45-480	1
25013	Hydr.hose 3/8" 1.8m+0.3m	1	25055	Cutting blade	1
25014	K-screw M12x40	20	25056	Spring cotter	1
25015	K-screw M12 Nyloc	20	25057	Bearing 6205 RS	4
25016	Hydr.pipe 12	1	25058	Hand brake lever	1
25017	Hydr.hose 3/8" 0.7m	3	25059a	Clutch, diam.85 el	1
25018	Hydr.hose 3/8" 1m	4	25059b	Clutch rubber, el	1
25019	Hydr.hose 3/8" 1.2m	1	25060a	center housing, el.	1
25019a	Hydr.hose 3/8" 1.4m	1	25061a	Hydr.pump 16+11 el	1
25020	Hydr.hose 3/8" 0.8m	2	25061b	Hydr.pump 8+ 6 Lomb.	1
25021	Hydr.hose 3/8" 2m	2	25061c	Hydr.pump 25 reel	1
25022	Basic connector DL12	1	25062	Filler cap R 1 1/2"	2
25023	Coupler	1	25063	Filter FIO 50/3	1
25024	Usit seal 3/8"	16	25064	Filter element CR50 P25	1
25025	Double nipple 3/8"	16	25065	Limitter M16x50	2
25026	Usit seal 1/2"	8	25066	Wheel bolt M12x1,5x42	5
25027	Double nipple 1/2"-3/8"	8	25067	Steering wheel	1
25028	Hydr.motor EPM 160	1	25068	Job button	1
25029	Coupling sleeve	1	25069	Steering shaft	1
25030	Wedge 7x8	4	25070	Bearing 6204 2RS	5
25031	Locking screw	1	25071	Control valve HKUS 63	1
25032	Chain sprocket 8 teeth	4	25072	Distribution valve PRT 80	1
25033	Drive shaft	1	25073	Steering cylinder 50/32-130	1
25034	Kolswa chain nr 57	6m	25074	Cylinder bracket	1
25035	Rake	12	25075	Hydr.hose 3/8" 0.4m	1
25036	Bearing UCFL 205	4	25076	Hydr.hose 3/8" 0.2m	1
25037	Shaft	1	25077	Suction hose int.diam.25	1
25038	Tensioner	2	25080	Drive wheel 8"x190	1
25039	K-screw M12x100 fullthreaded	2	25080a	Tyre	3
25040	Joint pin 35	2	25080b	Inner tube	3
25041	Joint pin 35	2	25081	Drive shaft	1
25042	Lock ring A35	4	25082	Steering frame	1
25043	Oil tank	1	25083	Bearing 6210 2RS	4
25044	Cap 3/8"	1	25084	Lock ring A50	2
25045	K-screw M8x20	18	25085	Overload valve	1
			25088	Connecting bar	1
			25089	Shear pin 2.5x25	1
			25090	Wheel 8"x190	2

25091	Hose tensioner	2	25144	Fine fodde	
25092	Hydr.motor EPRM 400	1		loading bucket (option)	1
25093	Cable guide	1	25145	Spare forks (option)	2tai4
25094	Roll, diam.40	2	25146	Lombard.oil filter (D)	1
25095	Roll, diam..60	2	25148	Lombard air filter (D)	1
25096	Roll shaft	2	25154	Lombard.muffler	1
25097	Cable reel	1	25157	Catalyst (diesel) option	1
25098	Cable 5x2.5	30m	25161	Reel spring	2
25099	Plug 5x32A	1	25162	K-screw M10x100	1
25100	El.motor 7.5kW/1500	1	25163	Fuel filter (Lomb.)	1
25101	Safety switchr	1	25164	Adjustment valve RVP	1
25102a	Protection cover (diesel)	1	25165	Exhaust pipe (Lombardini)	1
25102b	Protection cover (el)	1	25166	Fuel hose (gauge)	1
25103a	Work lamp el.	1	25167	Hose tensioner	4
25103b	Work lamp combustion engine	1	25168	Fuel hose (return)	1
25104	Cable fastener	1	25169	Fuel hose (vaccum)	1
25106	Cable	1	25170	Motor heater (Lombard.	
25107	Cable	1		option)	1
25108	Cover of el.motor	1			
25108a	Battery case	1			
25109	Battery	1			
25110c	Combustion engine Lombardini)	1			
25111	Cooler	1			
25112	Engine bracket	4			
25112a	Engine mount rubber	4			
25113a	Vaccum pipe	1			
25114	Vaccum elbow	2			
25114a	Comb.engine shield (Lomb.)	1			
25115	Pump attachment housing (Lomb.)	1			
25116	Clutch guide	1			
25117	Clutch assembly	1			
25118	K-nut M10 Nyloc	1			
25119	Hose fastener	1			
25120	Hose fastener	2			
25121	Exhaust pipe (Lombardini)	1			
25122	Fuel tank	1			
25123	Hose connecting nipple	2			
25124	Seat	1			
25125	Seat bracket	1			
25126	Pin	1			
25127	Slip pin	1			
25128	Intermediate bar	1			
25129	Joint	1			
25130	Drive pedal	1			
25131	Pin	1			
25132	T-coupler	2			
25133a	Chain 1/2"	1			
25134	Hydr.motor attachment bracket	1			
25135	Shield	1			
25136	Chain sprocket 1/2"	2			
25136b	Sprocket bracket	1			

OPERATING, MAINTENANCE AND SAFETY MANUAL OF A DISTRIBUTING REEL ATTACHED TO A VARMOLIFT DISTRIBUTING WAGON

General

A person who is not familiar with the operating, maintenance and safety instructions applicable to the wagon and the distributing reel must not be permitted to operate the distribution wagon equipped with a distributing reel.

Fodder distribution

1. Lift the reel in the topmost position by moving the reel height lever upwards.

2. Move the fodder on the distributing conveyor under the reel by pulling the reel height adjustment lever towards yourself. Stop the move when there is ca 10 cm of fodder on the conveyor.

3. Lower the reel down to the fodder by pushing the reel height adjustment lever down.



4. Start the reel's rotation by pushing the right side of the reel starting pedal. When the reel starts to rotate it moves the fodder over itself on the distributing conveyor.



5. When the fodder is fed on the distributing conveyor distribute it to the intended side by adjusting the distributing conveyor control lever while driving forward.

6. The lowered and rotating reel feeds the fodder on the distributing conveyor and reaches finally the bottom of the bed, which means that the fodder fed on the reel has been distributed.

7. Keep the reel down, move a new batch of fodder, ca 10 cm, towards the reel as described in p. 2, while the reel is rotating continuously.

8. Lift the reel up and keep the reel rotating, see p. 1. This moves the reel on the distributing conveyor, which allows feeding the fodder to the desired side, see p. 5.

9. When the reel has reached its uppermost position or a position wherefrom it does not reach the fodder any more, resume the operations from p. 1 until you have distributed all the fodder in the bed.



10. If required you can change the reel rotating direction by pushing the left side of the pedal controlling reel rotation.

THE DISTRIBUTING REEL STOPS WHEN ITS CONTROL PEDAL IS RELEASED IN THE CENTRAL POSITION!

WARNING!!!

NEVER! DRIVE AN ELECTRIC MACHINE IN SUCH A POSITION WHERE THE CABLE FROM THE CABLE REEL RUNS OVER THE DISTRIBUTING REEL AND THE BED.

4
3

NEVER! WHEN THE MACHINE IS RUNNING NEVER PUT YOUR HAND OR ANOTHER BODY PART ON THE DISTRIBUTING REEL OR ITS VICINITY.



Maintenance of the distributing reel
Adjusting the tension of the distributing reel drive chain

NOTE!

IT IS PROHIBITED TO OPERATE THE REEL IF IT BECOMES ENTANGLED IN LONG FODDER OR ANY MATERIAL OTHER THAN FODDER. THIS MATERIAL MUST BE REMOVED BEFORE RESUMING THE USE OF THE MACHINE AND THE REEL!



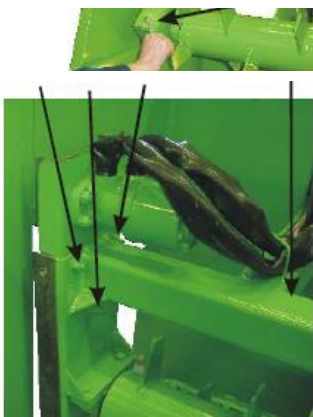
1. Lift the distributing wheel up
2. Remove the fastening bolts of the chain shield
3. Remove the chain shield
4. Lower the distributing reel



5. Release the bolts locking the chain tensioner, 3

6. Turn the protective cover of the cross conveyor to the side

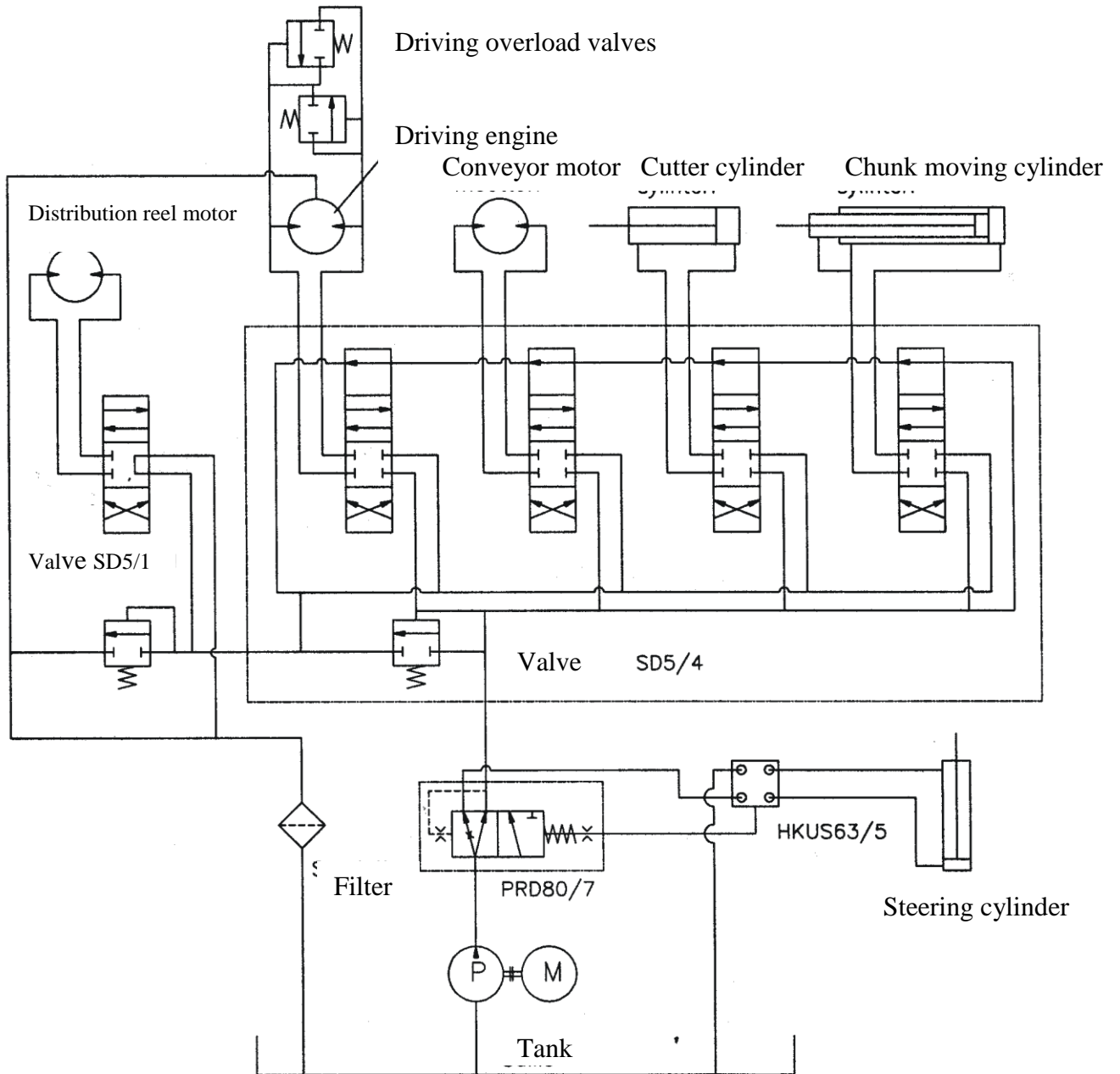
Correct tension of the chain = the chain moves ca 15 mm, if pressed down at the midpoint of the chain section between the sprockets.



7. Release the adjuster's lock.
8. Adjust the chain tension.
9. Lock the adjuster bolts with nuts.
10. Tighten the lock bolts referred to in p. 5

11. Lift the reel to the topmost position and install the chain shield.
12. Lubricate the reel bearings with Vaseline at the point marked with this yellow symbol once a month.

Hydraulic diagram of the loading fodder distribution wagon + distributing reel



WARRANTY TERMS

We are providing the machines manufactured by us a warranty subject to the following terms and conditions:

1. The warranty covers any defects caused by poor workmanship and material quality, with the exception of defects of such machine components that are classified as wear parts.
2. The warranty is valid for the first buyer of the machine from the purchasing date during a period of one (1) year, however not longer than 1000 operating hours.
3. The warranty is cancelled if the machine has been used contrary to the operating instruction or for any purpose other than the purpose intended by the manufacturer, or if other than original spare parts have been used on the machine, or if maintenance procedure prescribed by the instruction manual have been neglected.
4. Any warranty claim must be submitted to the vendor of the machine or the manufacturer in writing and forthwith after the trouble has been discovered. In order to be eligible for warranty repairs the customer must present a reliable proof of the warranty being valid.
5. Normal adjustment, operating training, upkeep, maintenance or cleaning procedures are not covered by the warranty.
6. In order to be eligible for warranty repairs it is essential that no repairs of the machine or a part thereof have started before the vendor, the manufacturer or the importer have been notified of the trouble discovered.
7. Only a repair staff authorised by the manufacturer or the importer may carry out the warranty repair work. Any washing and cleaning, oil or fuel used during the said warranty repair operations are not covered by the warranty.
8. Repair work related expenses are compensated according to the rates set by the manufacturer.
9. The manufacturer shall not compensate for any travel expenses possibly stemming from the repair work.
10. New parts are delivered free of charge by a transport vehicle that is normally used for such type of deliveries, within an established timeframe.
11. Any expenses related to special deliveries, i.e. courier mail, shall be covered by the recipient of the delivery.

EC Declaration of Conformity for the machine

(Machinery Directive 2006/42/EC, Appendix II A)

Manufacturer: TP Silva Oy

Address: Valimotie 1, FI-85800 Haapajärvi

Name and address of the person who is authorised to compile the technical file:

Name: Timo Jussila

Address: Valimotie 1, FI-85800 Haapajärvi

The aforementioned person assures that

Varmo Lift Super , Fodder distribution wago Serial number:

- is compliant with the applicable regulations of the Machinery Directive (2006/42/EC).

Location and date: Haapajärvi, 1. October 2020

Signature:



Anssi Westerlund
Business Unit Director