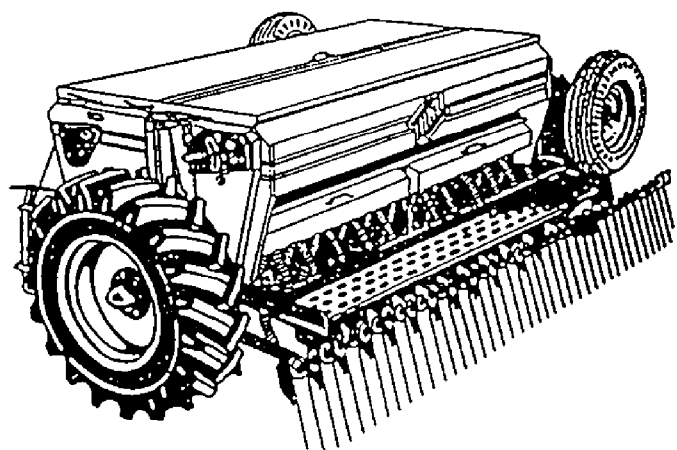
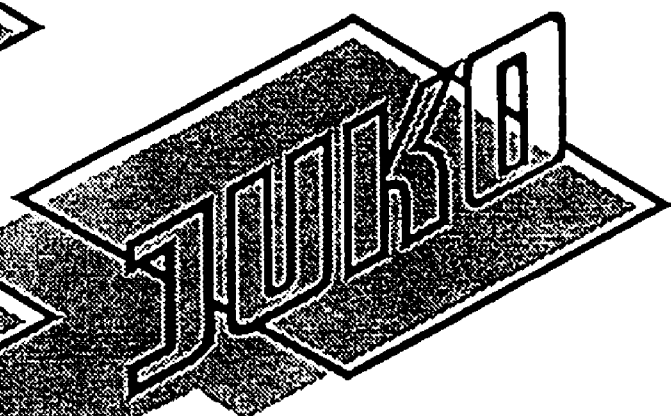
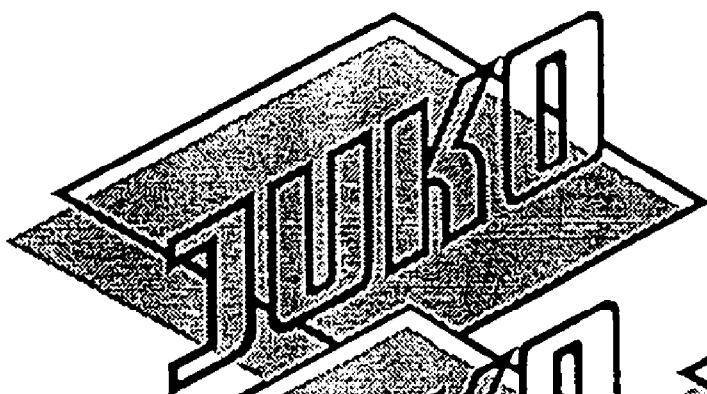
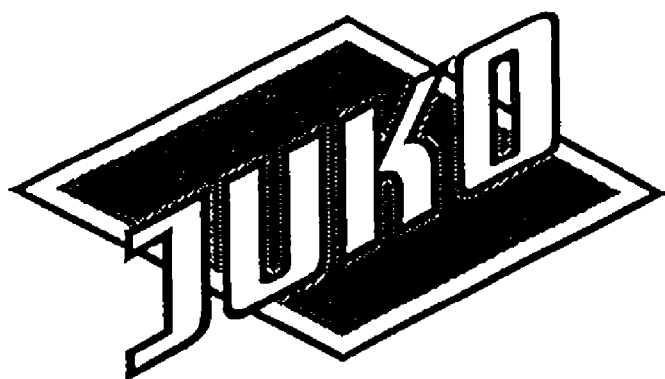


Valid from serial no.

1400-7121...

1500-7121...

1550-7121...



JUKO

H2500

H3000

H4000

TRAILED COMBINATION PLACEMENT DRILL

Instructions and Part List

100297

CONTENTS

	page
1. INTRODUCTION AND SERIAL NUMBER PLATE.....	5
2. GENERAL INTRODUCTION OF THE DRILL, COULTER TYPES AND TECHNICAL SPECIFICATIONS.....	6
3. SAFETY INSTRUCTIONS.....	9
4. TRANSPORTATION OF THE DRILL.....	12
5. OPERATION.....	13
6. OPERATING INSTRUCTIONS	
6.1. Hitching the drill to the tractor.....	14
6.2. Hydraulic system.....	15
6.3. Area meter.....	16
6.4. Transportation of the drill on public roads.....	17
6.5. Filling the hoppers.....	17
6.6. Feeding systems and their adjustments.....	18
6.7. Settings for fertilizer.....	19
6.8. Settings for seed.....	20
6.9. Calibration test.....	21
6.9.1. Calibration with seeds.....	21
6.9.2. Calibration with fertilizer.....	23
6.9.3. Calibration chart and feeding rates.....	24
6.10. Placement depth for fertilizer.....	26
6.11. Sowing depth.....	27
6.12. Clutch adjustment.....	28
6.13. Control of the functions.....	28
6.14. General instructions.....	29
6.15. Other driving instructions.....	29
7. MAINTENANCE.....	30
7.1. Lubrication chart.....	31
7.2. Torque.....	32
7.3. Tyre pressures.....	32
7.4. Optiseed.....	33
7.5. Clutch.....	33
7.6. Fertilizer coulters.....	35
7.7. Seed coulters.....	35
8. POWER TRANSMISSION.....	36
9. STORING.....	41
10. TERMS OF WARRANTY.....	42
11. OPTIONAL EQUIPMENT.....	43
12. SPARE PARTS LIST	
Frame.....	44-49
Hopper fertilizer unit.....	50-59
Hopper seed unit.....	60-65
Agitator shaft.....	66-67
Rotation speed converter.....	68-71
Cassette and intermediate axle unit.....	72-73
Area meter.....	74-75
Fertilizer coulters.....	76-77
Fertilizer disc coulters.....	78-79
Seed coulters.....	80-81
Wedge/disc type coulters.....	82-83
Hydraulic system.....	84-85
OPTIONAL EQUIPMENT:	
Drawbar set, 1858, 1881	
Pressure roller unit, 1853	
Rear harrow, 1850, 1851, 1855	
Transport equipment, 1882	
Remote control for the fertilizer unit 1865	
Hopper extension, 1811 1812	
Additional hopper, 1841, 1842	
Additional hopper mounting kit, 1847	
Rowmarker and swithing device for marker, 1893	

Use only original JUKO spare parts

How to use the Operating Instructions

These Operating Instructions are made for professional farmers. General skills and knowledge of farming and agricultural technology are required to operate the combination placement drill.



The figure of a triangle draws your attention to a matter of extreme importance.



A triangle with an exclamation mark informs you of an important point concerning safety.

The machinery and the Operating Instructions are subject to alterations by Juko Ltd.

1. INTRODUCTION AND SERIAL NUMBER PLATE

Juko Ltd is a Finnish factory making agricultural machinery and belongs to the CORMALL company. Our production line includes



1. seed drills and combination placement drills
2. planters
3. potato harvesters
4. sugar beet combination placement drills
5. sugar beet harvesters
6. stone collecting machine

We would like to thank you for choosing a high quality JUKO machine. Please read the Instructions carefully before commencing work. The Instructions and Part List has been divided into sections shown in the Contents, which will help you to find the information you need. For the troublefree work of the machine as well as for the validity of the warranty, it is crucial to follow the checking and maintenance instructions described in the Operating Instructions.

Please pay careful attention to the advice, warnings and prohibitions concerning the operating of the machine. They are made to ensure your personal safety and proper operation of the machine. The most important instructions and warnings are printed in bold type.

If you have any questions or comments concerning JUKO machinery, please contact first the dealer, and if necessary, the manufacturer. In case you need information on maintenance and spare parts, please contact the dealer or directly the manufacturer, JUKO LTD, tel. + 358-02-4393 200, fax +358-02-4393 210.

After purchasing the machine, please fill in the following picture of the serial number plate with the information that is in the serial number plate of your machine. When contacting a JUKO dealer, please mention the type and serial number in order to avoid misunderstandings and delays.

	OY JUKO LTD Opintie 4, FIN-23100 Mynämäki FINLAND Tel: +358-2-4393200 Fax: +358-2-4393210	
1997		
TYP <input type="text"/>	Nr. <input type="text"/>	<input type="text"/> kg

We hope that your JUKO machine will prove an excellent tool and serve you for a long time.

2. GENERAL INTRODUCTION OF THE DRILL

The aim of modern agricultural technology is to reach the best possible yield of high quality with reasonable expenditure. Use of the combination placement drill improves the plant utilization of fertilizer, as this is placed in moist soil at the right distance from the seed. This enables the plant to start growing quickly and ensures the utilization of the short growing period.

The JUKO combination placement drill can be used for placing fertilizer simultaneously with the sowing of all kinds of cereals, oil producing crops, peas and beans, grass and clover seed in Nordic farming conditions. The drill has been especially designed for the demanding use of sowing large acreages. The JUKO combination placement drill has a strong structure and is made of high quality materials - it is built to last.

The JUKO combination placement drill is designed to fulfill the requirements of modern farming techniques. The OPTISEED rotation speed converter designed by JUKO ensures an optimal and even feeding of seeds and gives you every possibility to obtain a high quality yield. The feeding accuracy and evenness of the feeding equipment has been found excellent in many official tests.

There is a range of standard and optional equipment, which enable you to build your combination placement drill according to your individual needs. The equipment are the following:

Standard equipment:

- Optiseed rotation speed converter
- Cassette for seed unit, 3 speeds
- Patented two-part feed tube
- Suffolk coulters with a trailing stay to prevent blockage of the seed unit
- S-tine coulters for fertilizer unit
- Central coulters pressure adjustment
- Individual coulters pressure adjustment with chains
- Stainless fertilizer hopper bottom
- Bottom cones for fertilizer and seed hoppers
- Fertilizer sieve
- Agitator shaft of the hopper seed unit
- Calibration trays of the seed unit
- Footboard
- Drawbar and draw triangle (trailed models)
- Electric area meter, 12 V

Optional equipment:

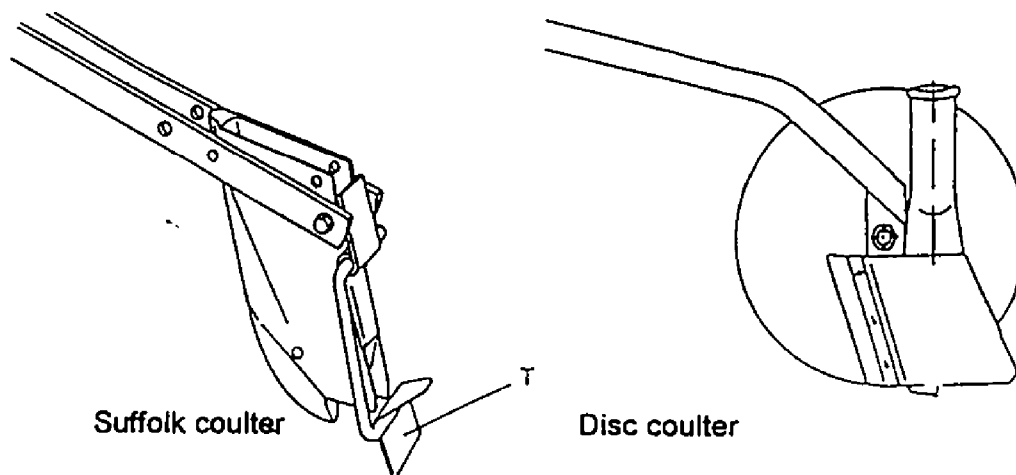
- Wedge/disc type coulters on the seed unit
- Fertilizer disc coulters
- Ceramic fertilizer and seed coulters
- Hopper extensions
- Juko Control control equipment
- Seed drill for clover and extra fertilizer
- Remote control for the fertilizer unit
- Seed sieve
- Pressure roller unit (narrow and wide model)
- Rear harrow
- Hydraulic automatic rowmarker (trailed models)
- Low pressure wheels, width 500 mm
- Drawbar set for Lely power harrow (trailed models)
- Transport equipment (H3000/H4000)
- Tarpaulin cover (H/HT3000, H/HT4000)

COULTER TYPES

SEED COULTERS:

Suffolk coulter: The tip of the Suffolk coulter is of the trailing type and compacts the bottom of the seed furrow. The coulter is equipped with a trailing stay (T) to prevent blockage when lowering the drill down. The Suffolk coulter is an excellent coulter for general use.

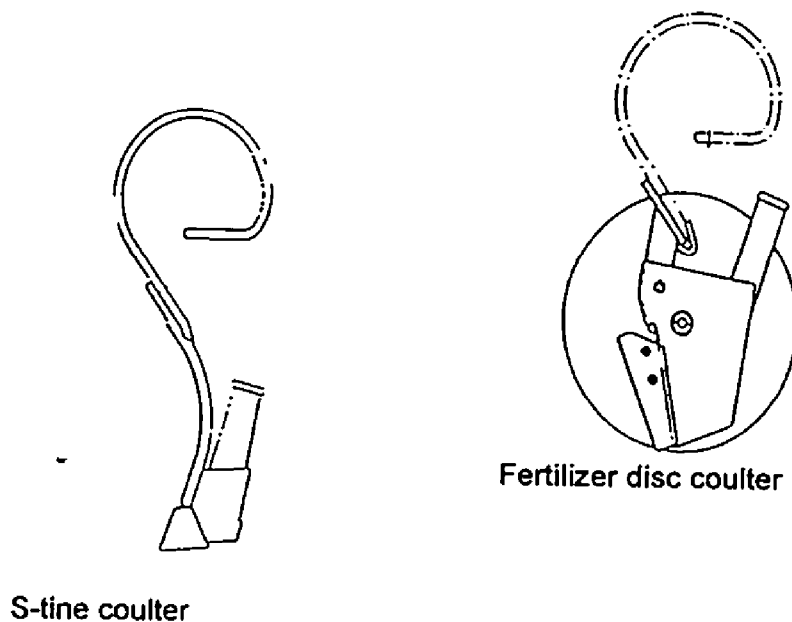
Disc coulter: The Disc Coulter is suitable for light soil types.



FERTILIZER COULTERS:

S-tine coulter: The S-tine coulter is suitable as a general coulter.

Fertilizer disc coulter: The Fertilizer coulter is suitable for light soil types.



TECNICAL SPECIFICATIONS

	H2500	H3000	H4000
Working width	250 cm	300 cm	400 cm
Total width	366 cm	416 cm	516 cm
Transport width	242 cm	242 cm	242 cm
Numbers of coulters:			
- seed coulters	20	24	32
- fertilizer coulters	10	12	16
Row spacing:			
- seed	12,5 cm	12,5 cm	12,5 cm
- fertilizer	25,0 cm	25,0 cm	12,5 cm
Seed hopper capacity	708 l	855 l	1.140 l
- hopper extension	912 l	1.100 l	-
Fertilizer hopper capacity	1.094 l	1.320 l	1.760 l
- hopper extension	1.368 l	1.650 l	-
Length with drawbar			
- to the rear end of the footboard	344-394 cm		
Weights:			
- empty hopper with foot board	1.370 kg	1.500 kg	1.740 kg
- with full hoppers *	3.030 kg	3.500 kg	4.450 kg
Filling height:			
- from ground	145 cm	145 cm	145 cm
- from footboard	91 cm	91 cm	91 cm
Tyres	14.9R-24	14.9R-24	14.9R-24
Pressures:			
H2500 basic machine	157 kPa = 1,6 bar		
H2500 " + hopper extension	" " "		
H3000 basic machine		157 kPa = 1,6 bar	
H3000 " + hopper extension		176 kPa = 1,8 bar	
H4000 " + hopper extension			176 kPa = 1,8 bar
500/60 - 26.5		80 kPa = 0,8 bar	
Transport wheels	7.50-16	7.50-16	7.50-16

* Fertilizer 1 kg/dm³ ; seed 0,8 kg/dm³.

3. SAFETY INSTRUCTIONS

When using the machine, make sure there is adequate safety distance around the machine.

The driver of the machine is responsible for damage caused by the machine to other people.

Before starting the machine, make sure that there are no people in the area where the machine will be used.

Avoid abrupt moves when using the machine.

When using the machine, always observe the functions of the machine, so that you can stop the machine immediately in case of malfunction or danger.

In an emergency, stop the tractor and the JUKO machine immediately to avoid additional damage and accidents.

It is forbidden to remove the covers and safety equipment when using the machine.

Always stop the machine and the tractor during maintenance.

Maintenance, adjustment and other work are forbidden when the machine or part of it is lifted up if the machine is not properly supported.

Carry out maintenance work on an even, firm surface to prevent the machine from moving or falling down.



NEVER GO UNDER AN UNSUPPORTED MACHINE!

Make sure the lightning and other conditions are sufficient when handling the machine.

SAFETY INSTRUCTIONS FOR COMBINATION PLACEMENT DRILLS

- Standing and sitting on top of the drill is strictly forbidden except when filling the hoppers.
- When the drill is moving, the minimum safety distance is three meters. Pay special attention to the drill with rowmarker, where the markers are automatically tied to lifts.
- During maintenance the tractor motor has to be stopped and the drill properly supported in order to prevent moving of the drill.
- When maintaining and/or cleaning the coulters under a drill that has been lifted up, the drill has to be mechanically supported in order to prevent it from moving.



DRILL NEVER GO UNDER AN UNSUPPORTED.

- Note that when driving on stony fields the combination placement drill can throw stones forward even as far as to the driver.

WARNINGS AND PROHIBITIONS

It is strictly forbidden to stand or sit on top of the drill when it is moving.

It is forbidden to go under an unsupported drill.

It is forbidden to fit double wheels on the drill. To get more carrying capacity, suitable Twin tyres can be used.

Do not let the drill move backwards when the coulters are on the ground.

Do not stand on hopper lids, as they can be slippery.

When filling from large bags, make sure the bag does not swing against the lids.

Do not use the drill to purposes other than fertilization, sowing and sowing with fertilizer.

Make sure that the drill is empty when transporting it on transport wheels.

OPERATING INSTRUCTIONS FOR RIMS

The manufacturer of the rims used in JUKO machines has given the following instructions for its products:

1. Rims

Rims are an important component that affect the safety and drivability of the vehicle. Rims must be free from defect and approved both for the tyre and the particular vehicle.

NOTE! Never make modifications or repairs in the rims.

There are several things that affect safety.

The responsibility for any alterations and repairs that are not in accordance with the instructions of the manufacturer fall on the person who carries out such alterations or repairs.

2. Fitting and removing tyres

Tyre fitting may only be done by a skilled professional who has the appropriate training and experience as well as the appropriate tools. Improper fitting can cause a damage that is a safety risk.

3. Retightening

The tightening screws and nuts of the rim should usually be tightened after the vehicle has been used for a while after the rims have been fitted. Follow the instructions given by the manufacturer of the vehicle.

4. Repairing tyres

A tyre should not be repaired while fitted on a rim, as inside checking of the tyre would be impossible. There is also a risk of tyre explosion.

4. TRANSPORTATION AND LIFTING OF THE MACHINE

Transportation on public roads

Check the headlights and reflectors before starting off.

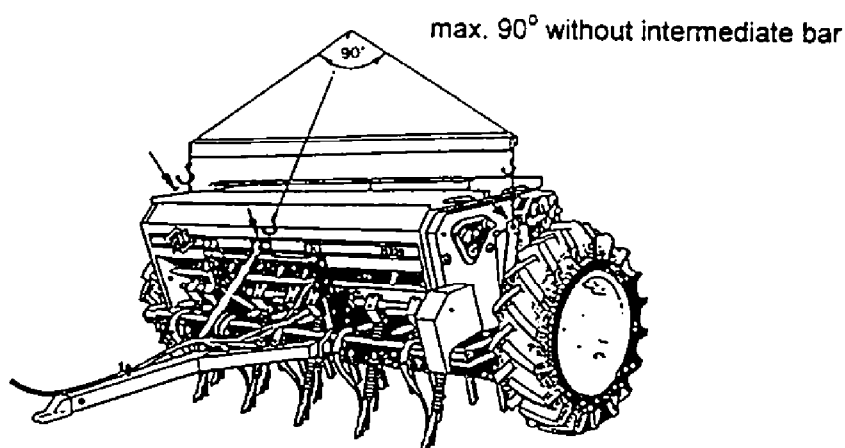
Make sure that the light and the warning triangle for slow vehicle can be seen.

Make sure that the machine is empty of load and persons when transporting it on public roads.

Make sure that power transmission is set off when transporting the machine on public roads.

When transporting or moving the machine without using a tractor, the following instructions must be followed:

When lifting the machine, only marked points may be used as lifting points. Lifting points are the bracket and links on the three-point lifting bar of the frame that are welded on the lug of the lifting cylinders on the sides of the hopper. Lifting links have been marked with a figure of lifting hook.



Lifting chains and belts have to be long enough so that they do not chafe or damage the machine.

Only approved and absolutely undamaged lifting machinery may be used in lifting the machine. The lifting machinery must be dimensioned for at least twice the weight given at the plate.

The person who carries out the lifting must ensure that no person may at any stage go or pass under the drill.

When moving the drill to the platform of a lorry, the provisions of road traffic legislation must be observed. Especially the total height of the load must be checked carefully. Also ensure that the load is properly tied on the platform.



When lifting the machine with a forklift or a similar vehicle, make sure the machine is not damaged.

This type of lifting is not recommended.

5. OPERATION

First read carefully the Operating Instructions and the Safety Instructions. The machine may not be used before reading the instructions!

Operation of a new machine:



NOTE! The machine has been tested and adjusted by JUKO for the testing on the factory. The adjustments are average adjustments. In order to obtain the best possible results, make the adjustments suitable for your own needs before using the machine.

In a new machine the parts settle in place only after a couple of hours' work. Therefore the tightness of all screws, nuts and chains must be checked after 1-2 hours of work. The torque levels can be seen in Section 7.2.

Before further use for a new season:

CHECK:

- tyre pressure
 - condition of roller chains; change if needed
 - condition of bearings; change if needed
 - functions of feeding equipment by making a few turns with the calibration crank both on the fertilizer and seed units
 - springs of bottom flaps
 - worn coulters; repair or change if necessary
 - tightness of bearings of seed coulters; they should lower down by their own weight
 - level of oil in Optiseed; add if necessary
 - tightness of screws, nuts and chains
 - condition of hydraulic hoses and adaptors
 - functioning of area meter
 - lubrication and greasing of the machine
 - sliding of the feed tubes within each other by lifting each seed coulters. If there is friction in the telescope, disconnect the outer tube from the top and spray with silicone to improve sliding
 - functioning of the clutch
-
- Change broken parts if needed.
 - Order spare parts well before the following season.
 - When ordering spare parts, mention the model and serial number of the machine.

6. OPERATING INSTRUCTIONS

In order to guarantee safe operation of the machine, it must be used according to the Operating Instructions.

In operating the machine, the instructions as well as the prevailing conditions (temperature, moisture of the soil, etc.) must be taken into account. The adjustments are made on the basis of the conditions. Also make sure that the machine is ready for use (see Section 5.).

Read carefully the detailed operating instructions that follow.

6.1. HITCHING THE DRILL TO THE TRACTOR

The drill can be hitched to the tractor in three different ways:

1. The drawbar of the drill is hitched directly to the drawing hook of the tractor.

Advantages of this hitching:

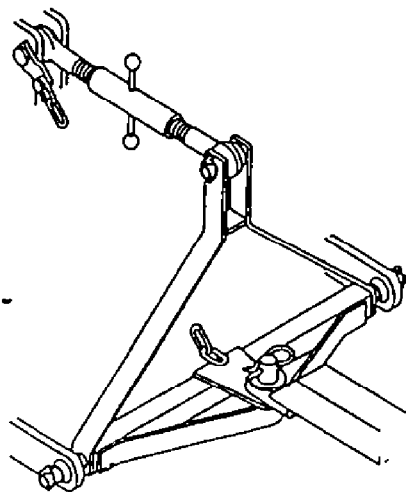
- the combination of tractor/drill is shorter
- the vehicle does not react to slight vertical moves
- the machine does not "nod" very much e.g. when driving over a water furrow

Disadvantages of this hitching:

- the vehicle is less manoeuvrable in turns
- the vehicle cuts the corners when turning

2. Hitching with the draw triangle. A trailed drill is supplied with a draw triangle which is hitched to the lifting mechanism of the tractor as shown in Figure 1.

Fig. 1



Advantages of this hitching:

- the vehicle is easy to manoeuvre in turns
- the vehicle follows the tractor more easily, because the drawing point is further back
- the ground clearance of the fertilizer coulters can be increased by lifting the drawbar of the tractor

Disadvantages of this hitching:

- the combination tractor/drill is fairly long
- the vehicle "nods" more easily for example when driving over a water furrow
- more precise driving is needed, as the movements of the tractor influence the drawing point and the movements of the drill

3. The drill can also be used with Lely power harrow. Move the drawbar the upper holes of the drill and fasten the adjusting screw under the drawbar. Hitch the drill to the drawing point of the harrow.



The effect of the weight of the drawbar weight on the tilling depth.

The advantage of this type of hitching is that the soil is tilled and sown at the same time. The drill behaves the same way as in draw triangle hitching in Method 2 (see above).

6.2. HYDRAULIC SYSTEM

Connect the hydraulic hose of the drill's lift cylinder to the single-acting valve of the tractor. Make sure that the adaptors are clean. There are no special requirements as to the type of the hydraulic oil. In cooperative use of the drill pay attention to the mixing of oils that remain in hoses when changing the tractor.

6.3. CONNECTING THE AREA METER

The drill is equipped with an electronic area meter. Hitch the area meter in a suitable place in the tractor cabin, where it is easy to see it.

The meter has an accuracy of 0,1 are. For example the meter showing 10 is same as one are.



NOTE! Protected against wetness.

Connect the cable coming from the drill to the area meter. Connect the 7-point plug to the tractor.



NOTE! Keep the lights on when sowing.

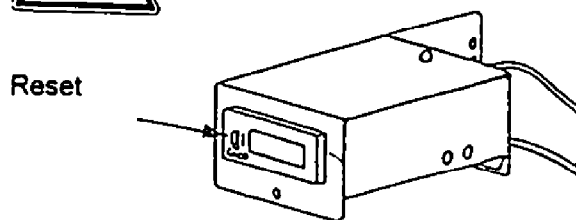


Fig. 2. Display of the Area Meter

When the LED-light in the area meter is lightened, the area meter is on.



NOTE! Keep the reset button down when you are working, only keep it up when you are resetting.

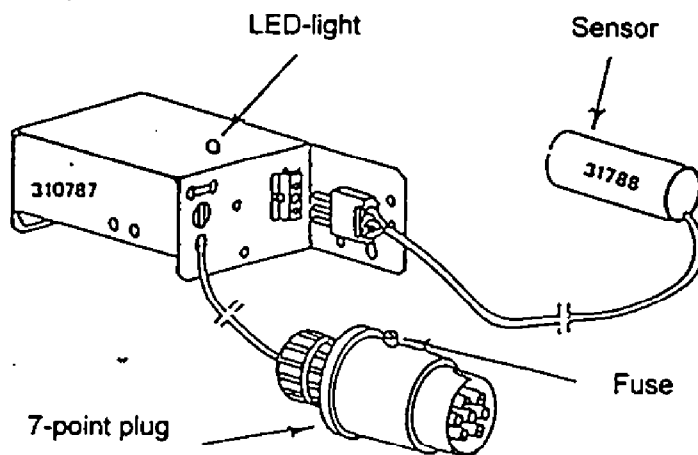


Fig. 4 The area meter

6.4. TRANSPORTING THE DRILL ON PUBLIC ROADS

When transporting the drill on public roads, all provisions of road traffic regulation as well as the special regulations of a slow vehicle must be observed. Special care has to be taken because of the width of the drill.

The hoppers must be empty when transporting the drill with the transport equipment.

If the warning triangle for slow vehicle and the head lights of the tractor are hidden behind the drill, they must be installed on the drill.

6.5. FILLING THE HOPPERS

There are different ways to fill the hoppers of the drill. The conditions and possibilities on the farm largely determine the method used.

The most commonly used methods:

1. Filling from small bags (e.g. 25 - 50 kg)

The bags can be stored on ground level, and lifted by hand and emptied into the hoppers. However, this is not to be recommended, as it involves unnecessary work to lift the bags from the ground. By storing the bags on a platform or using a tractor trailer to bring the seed and fertilizer bags to the field, the filling is easy. The tractor with the drill is reversed close to the trailer (or lorry) placed at the edge of the field and the hoppers are filled standing on the footboard of the drill. The lifting height will then be very low. The trailer can also be used to take the bags to the part of the field to be sown.

2. Filling from large bags (e.g. 500 - 600 kg)

If a suitable crane or lifting device is available, the hoppers can be filled directly from the bags. Care should be taken not to work or pass under the lifted bag, as this can be dangerous. Also avoid to let the bag swing against the lid of the hopper as this can DAMAGE THE LID OR THE GAS SPRING OF THE LID. A safer way is to empty the large bags into a tractor trailer and use the methods suitable for bulk seed and fertilizer.

3. Filling with bulk seed and fertilizer

For handling of seed and fertilizer in bulk there are different ways. A high tipping trailer or a trailer with an auger are the best ways. A tractor with a front loader can also be used.

When filling the drill hoppers, care should be taken to prevent any foreign bodies, for instance pieces of paper or plastic bags, getting into the hopper. These can block the feeding units. The fertilizer sieve must be kept in place, especially if the fertilizer is lumpy or of inferior quality.

6.6. FEEDING SYSTEMS AND THEIR ADJUSTMENT

The feeding rates for seed and fertilizer are independently adjusted by changing the feed roller speed of rotation. Both the fertilizer and the seed unit have a stepless Optiseed rotation speed converter. In addition there is a cassette for the seed unit. This multiplies the ranges of settings by four and they can be chosen depending on the size of seed (Fig. 4).

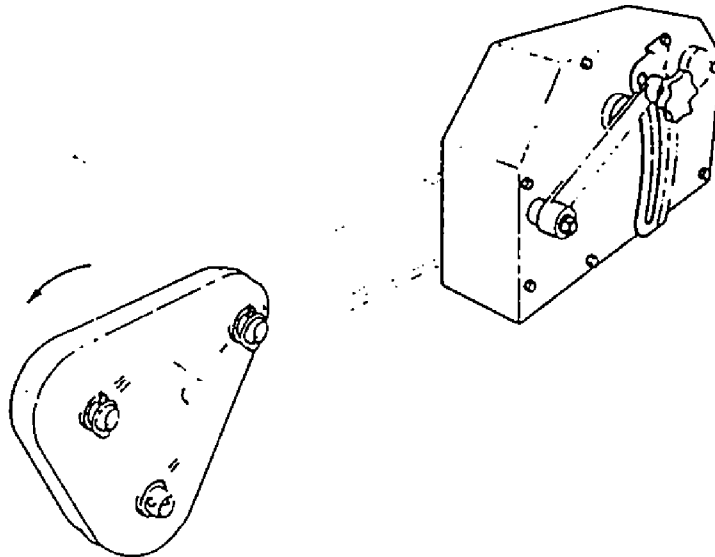


Fig. 4. Optiseed rotation speed converter and cassette for seed.

Both seed and fertilizer unit feeder cases have shutters and bottom flaps. The shutters regulate the flow of fertilizer and seed to the feed rollers. If needed, some of the shutters can be closed completely if for instance the whole width of the drill is not used for sowing or if only every second seed coulter is used.

The correct setting of the bottom flaps is important, as their distance to the feed roller influences the accuracy of feeding. The bottom flaps are spring loaded in case some foreign body should pass between a bottom flap and a feed roller. This way damage to the feeder mechanism is prevented.

The settings for the feeder mechanisms are also given in calibration charts inside the fertilizer hopper lid.

6.7. SETTINGS FOR FERTILIZER

The fertilizer unit shutters (C) and bottom flaps (D) should be set as follows:

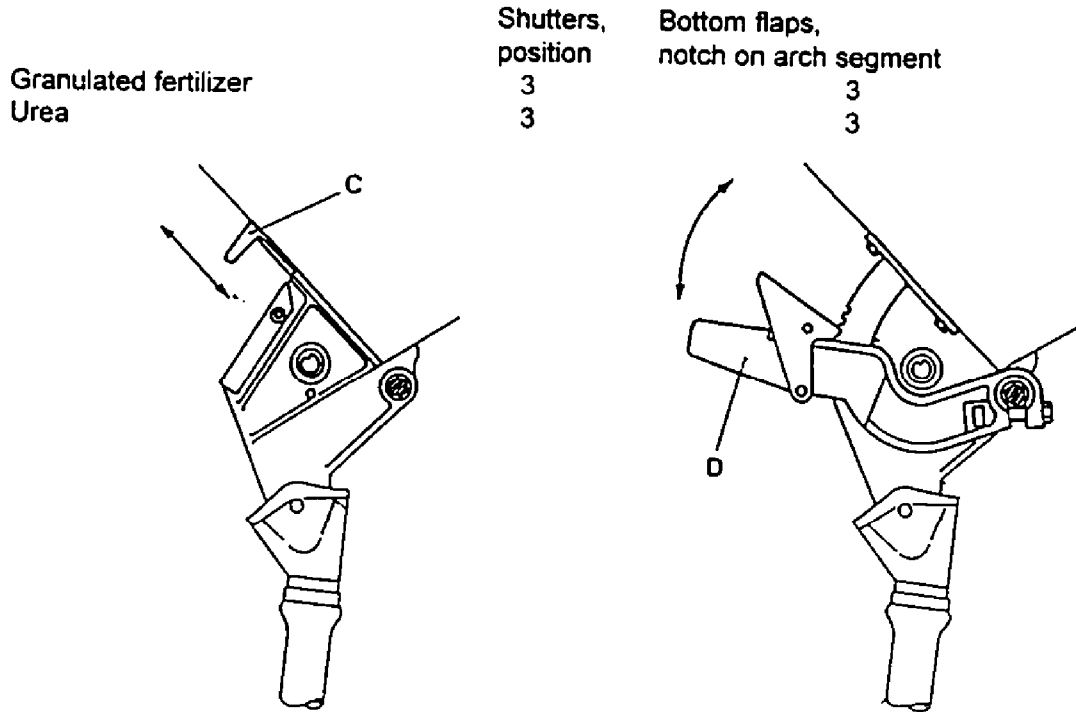


Fig. 5. Shutters and bottom flaps for the fertilizer unit.

The fertilizer quantity is adjusted from the Optiseed rotation speed converter on the RIGHT HAND SIDE of the drill. The feeding rates for normal granulated NPK fertilizer and for urea are given in the calibration chart. The chart is, however, intended only as a guidance, as the feed rates vary depending on for instance size of granule and moisture of the fertilizer used. A calibration test should therefore always be made before commencing the sowing.

6.8. SETTINGS FOR SEED

The seed unit shutters (E) and bottom flaps (F) should be set as follows:

	Shutters, position	Bottom flaps, notch on arch segment
Cereals	2	2
Small seed	2	2
Peas	2	4

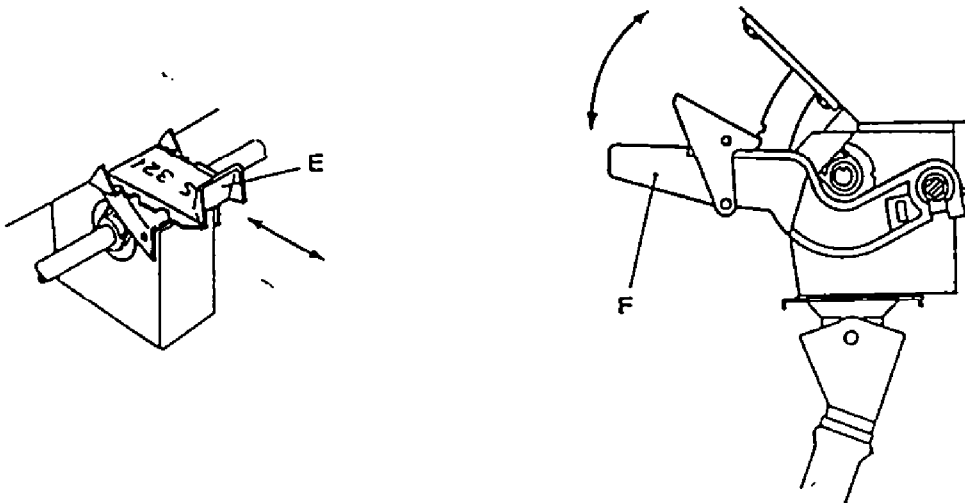


Fig. 6. Shutters and bottom flaps for the seed unit.

The seed rate is adjusted from the Optiseed rotation speed converter on the LEFT HAND SIDE of the drill.

The settings and cassette positions for the following seeds are given in the calibration chart: wheat, rye, oats, barley, peas, rape, clover and timothy. Before sowing, the feeding rates should always be checked by making a calibration test. This is necessary, as seed rates can vary depending on for instance type, origin, humidity and size of the seed.

6.9. CALIBRATION TEST

The feeding rates for both fertilizer and seed **SHOULD ALWAYS BE CHECKED BY A CALIBRATION TEST**. Fill the hoppers with seed and fertilizer. Check that the drill is in a horizontal position when standing on the ground.

The calibration test is carried out in the following way:

6.9.1. CALIBRATION TEST FOR SEED

A) Check that the setting for shutters, bottom flaps and cassette are the correct ones for the seed used. Adjust the lever on the Optiseed rotation speed converter according to the settings given in the calibration chart. Tighten the locking screw carefully.

B) The seed unit has two calibration trays (G). Release them from the locking position by lifting from the handle and pulling back at the same time. Then let them down and push forward under the feeder cases. If the seed coulter pressure is very high, it should be decreased to allow the calibration trays enough room for the forward movement.

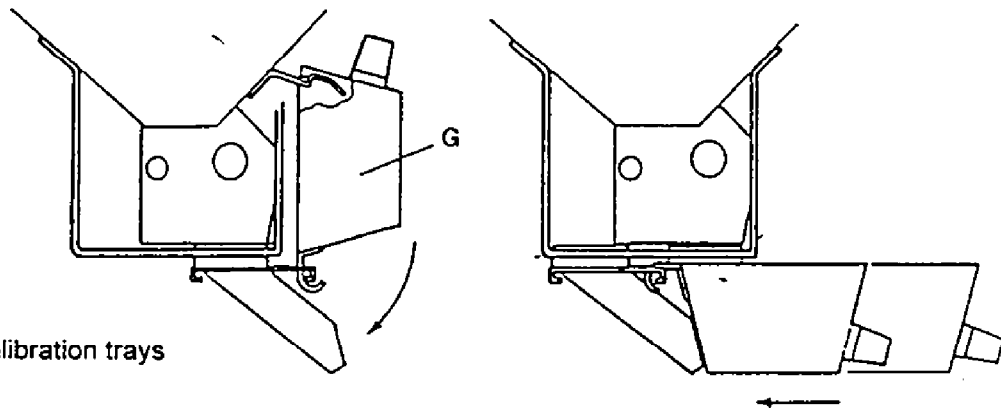


Fig. 7. Calibration trays

C) The two lynch pins of the cassette are removed and the cassette is pulled out so much that it can be locked in the **OUTER HOLE** on the **REAR AXLE** using one of the lynch pins. The calibration crank (to be found on the inner side of the hopper gable in front of the fertilizer hopper) is fastened to the **FORWARD BUSH** of the cassette and turned **IN THE DIRECTION OF THE ARROW** until the seed feeder units start to feed. Then the calibration trays are pulled back, removed and emptied back into the hopper.

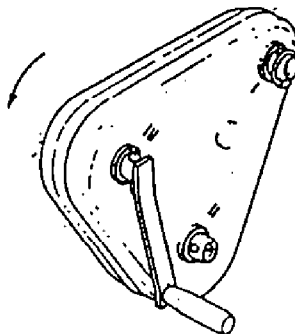


Fig. 8. Calibration test for seed.

D) The calibration trays are put back in calibration test position. The crank is turned the following number of turns to get the quantity for 1/100 hectare. Always turn in the direction indicated by the arrow.

H2500 (2,5 m)	11,6
H3000 (3,0 m)	9,7
H4000 (4,0 m)	7,3

E) The calibration trays are removed and the seed collected in them is weighed. The quantity is then multiplied by 100 to get the quantity for 1 hectare. If it is not the desired quantity, the lever on the Optiseed care is adjusted using the calibration chart as guidance. The calibration test should then be repeated.

F) After completing the calibration test the calibration trays are lifted back in sowing position. Observe that **THE CASSETTE MUST BE PUSHED BACK IN SOWING POSITION AND LOCKED** with linch pins.

G) The calibration test for seed can also be made the following way:

1. Check that the settings for the shutters, bottom flaps and cassette are the correct ones. Adjust the lever on the Optiseed rotation speed converter according to the settings given in the calibration chart.

2. Fill the seed hopper.

3. Push the calibration trays under the feeder cases to lock them. Drive in the sowing position until the seed feeder units start to feed. Open the locks by pushing the calibration tray forward and pushing both locks down. Pull the tray out and empty it.

4. Put the calibration trays back to the calibration test position. Drive the machine in the sowing position 40 m (2,5 m drill), 33,3 m (3,0 m drill) and 25 m (4,0 m). Remove the calibration trays and weigh the seed collected in them. Multiply the quantity by 100 to get the quantity for 1 hectare. If it is not the desired quantity, the lever on the Optiseed care is adjusted using the calibration chart as guidance. The calibration test should then be repeated.

5. When the calibration test is carried out by driving, observe that there may be changes in the feed rates because of the shaking of the machine or the sliding/slipping of the wheels.

6.9.2. CALIBRATION TEST FOR FERTILIZER

A) Check that the settings for shutters and bottom flaps are the correct ones. Adjust the lever of the Optiseed rotation speed converter on the **RIGHT HAND SIDE** of the drill according to the settings given in the calibration chart. Tighten the locking screw carefully.

B) As there are no calibration trays for the fertilizer unit, lift the drill slightly off the ground and place a tarpaulin or plastic sheet under the fertilizer coulters to collect the fertilizer.

C) H2500 and H3000:

Remove the cassette on the **LEFT HAND SIDE** of the drill and fasten the calibration crank to the **FRONT AXLE**. Turn the crank **IN THE DIRECTION INDICATED BY THE ARROW** until all fertilizer feeder units start to feed. Pour the fertilizer from the tarpaulin back into the hopper and place the tarpaulin back in its place under the coulters.

H4000: The shaft on the right hand side of the machine should be turned with the crank using the extension, until all fertilizer feeder units start to feed. Pour the fertilizer from the trays back into the hopper and place the trays back under the coulters.

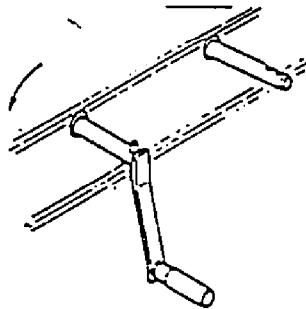


Fig. 9. Calibration test for fertilizer.

D) H2500 and H3000: Turn the crank in the direction indicated by the arrow. The number of turns is the same as in the calibration test for seed.

H4000: Turn the crank in the direction indicated by the arrow (see table).

E) The collected fertilizer is weighed and multiplied by 100 to get the quantity for 1 hectare (if all coulters are used for the test). If it is not the required, the lever setting of the Optiseed unit on the **RIGHT HAND SIDE** of the drill is adjusted using the calibration chart as guidance. The calibration test should then be repeated. After completing the calibration test for fertilizer, the **CASSETTE MUST ABSOLUTELY BE PUT BACK** IN the sowing position.

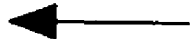
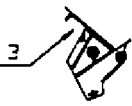
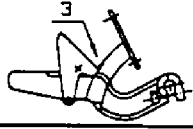

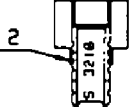
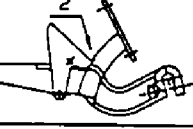

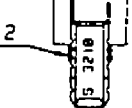
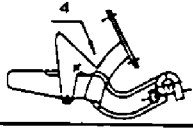

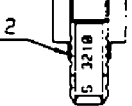
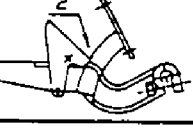
NOTE! NEVER use the area meter for calibration purposes. Too low **TYRE PRESSURE WILL INCREASE** the feed-rates, so it must be checked regularly.

The correct pressure is:

157 kPa (1,6 bar) H3000 basic machine (H2500 + H2500 with hopper extension)

176 kPa (1,8 bar) H3000 with hopper extension and H4000.

6.9.3
KIERTOKOETAULUKKO
VRIDPROVSTABELL
CALIBRATION CHART

	 koneen kulkusuunta kor riktning driving direction kasetti kasette cassette	sulkulevy skjutlucka shutter	pohjalappa bottenklaff bottom flap
Rakeinen NPK Granulerad NPK Granulated NPK UREA			
Vehnä, Vete, Wheat Ruis, Råg, Rye Ohra, Korn, Barley Kaura, Havre, Oats			
Herne, Arter, Peas			
Timotei, Timotej, Timothy Apila, Klover, Clover Ryysi, Ryys, Rape			

Number of crank turns	Seed	Fertilizer
N25	11,5	11,5
H250, H2500	11,6	11,6
H3000	9,7	9,7
H4000	7,3	7,3
HT2500	11,7	11,7
HT3000	9,6	9,6
HT4000	7,3	7,3

CALIBRATION PROCEDURE FOR THE SEED UNIT ALL MODELS

Remove the two linch pins locking the cassette. Pull out the cassette so much that it can be locked with a linch pin in the outer hole of the rear (cassette) axle. Use the calibration crank to turn the cassette from its forward bush in the direction indicated by arrow, then you get seed quantity for 1/100 hectare. The quantity is multiplied by 100 to get the quantity for 1 hectare.

CALIBRATION PROCEDURE FOR THE FERTILIZER UNIT

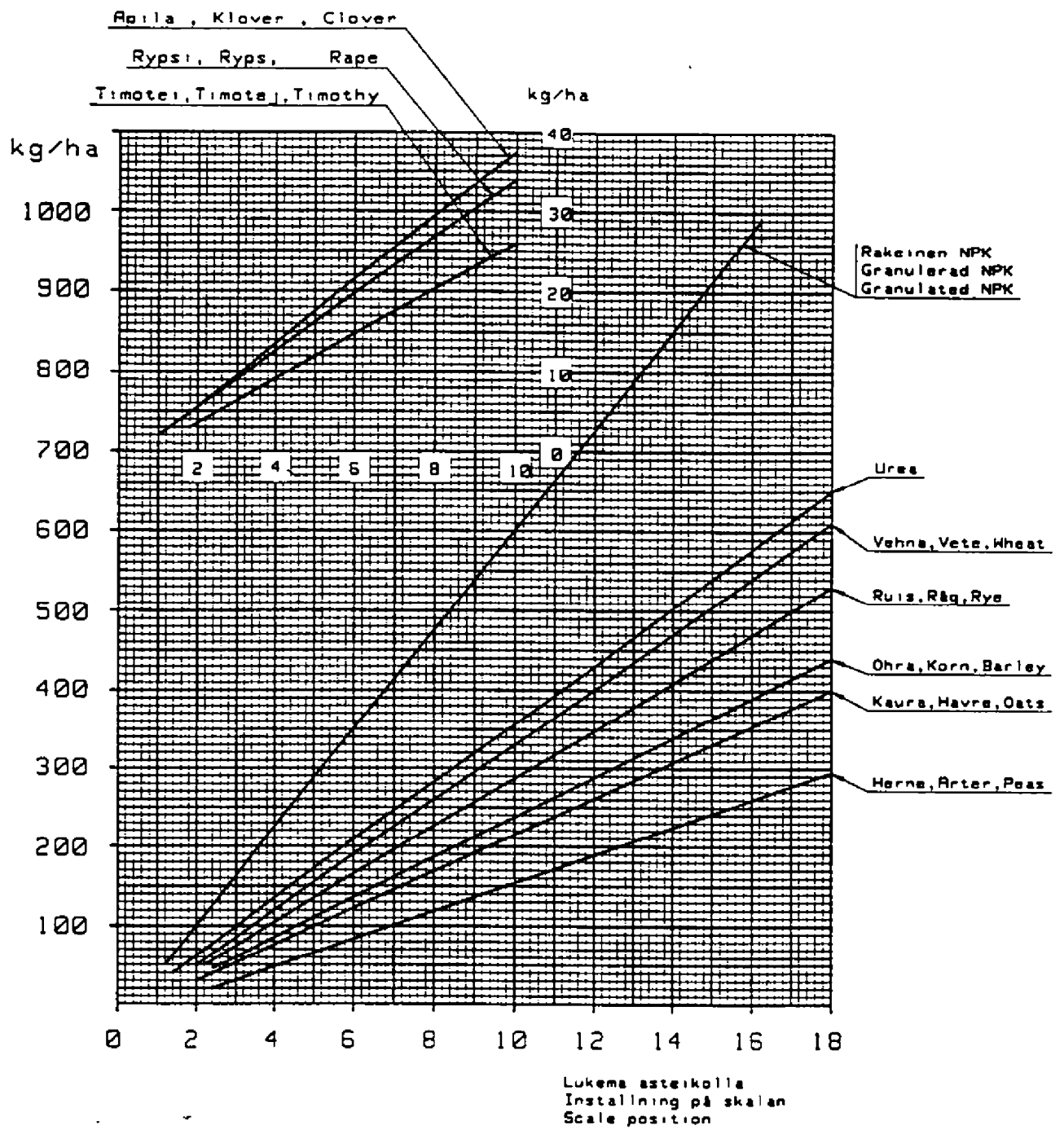
N25, H250, H2500, H3000, HT2500, HT3000 MODELS

Remove the cassette and turn the forward axle using the calibration crank in the direction indicated by arrow, then you get fertilizer quantity for 1/100 hectare. The quantity is multiplied by 100 to get the quantity for 1 hectare.

CALIBRATION PROCEDURE FOR THE FERTILIZER UNIT

H4000 and HT4000 MODELS

24 For H4000 and HT4000 calibration for fertilizer is done by turning the axle in the right end of the hopper by the calibration crank and extension tube in the direction indicated by arrow.



6.10. PLACEMENT DEPTH FOR FERTILIZER

The placement depth for fertilizer is adjusted by lifting or lowering the land wheels of the drill. The setting screws (H) are situated in the rear corners of the drill. They are fitted with scales (J) to help adjusting both wheels at the same level. This is very important as it assures uniform placement depth for all fertilizer coulters. **NOTE THAT THE SCALES DO NOT INDICATE PLACEMENT DEPTH**, they only provide comparison when adjusting the wheel position.

Research shows that the fertilizer should be placed 2 - 3 cm below seed level. For cereals the placement depth is normally 7 - 8 cm. In the field the depth should be checked by digging out the fertilizer in the fertilizer

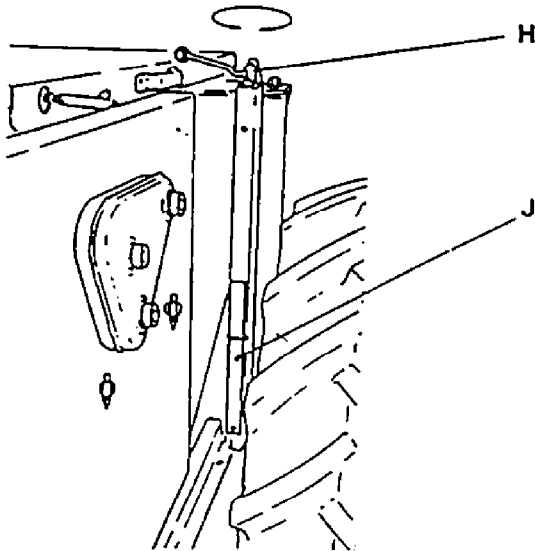


Fig. 10 a.
Placement depth adjustment.

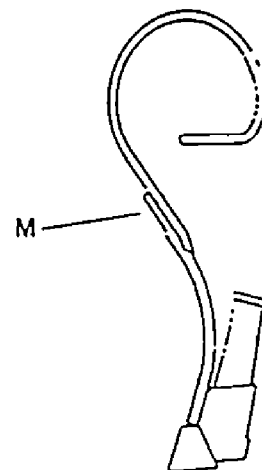


Fig. 10 b.
Removing the fertilizer coulters

Sowing without fertilizer coulters:

When sowing grass seed with the combination placement drill, using a cereal crop for protection, the cereal should be sown first and the fertilizer placed simultaneously. To sow the grass seed on the second run, the fertilizer coulters are removed by opening the nuts (M) and taking off the lower part of the coulters. Then the seed unit is set for grass seed.

If there is fertilizer in the fertilizer hopper, the shutters of the fertilizer unit should be closed. When after the drilling the coulters are mounted back on the drill, care should be taken to ensure that the front coulters and the rear coulters are in the correct place.

The tip of the fertilizer coulters:

When the tip of the fertilizer coulters is worn down to the level of the side plates, they can be repaired by welding a tip replacement under the original tip. The tip replacement is an optional extra (part number 35431).

6.11. SOWING DEPTH

The sowing depth can be adjusted by changing the tightness of the tension springs (N). There are two different ways to do this:

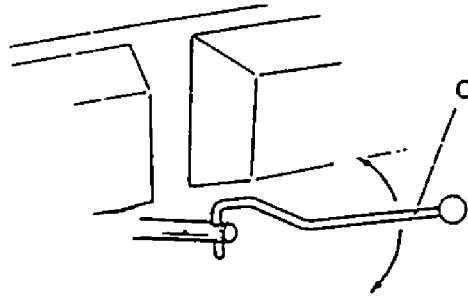


Fig. 11 a. Central coulters pressure adjustment.

1. CENTRAL ADJUSTMENT

The tension of all springs is centrally adjusted using the adjusting screw (O) located under and behind the seed hopper. When the screw is turned counter clockwise, the tension of all springs increases and the coulters go deeper. If the screw is turned clockwise the depth of the coulters decreases.

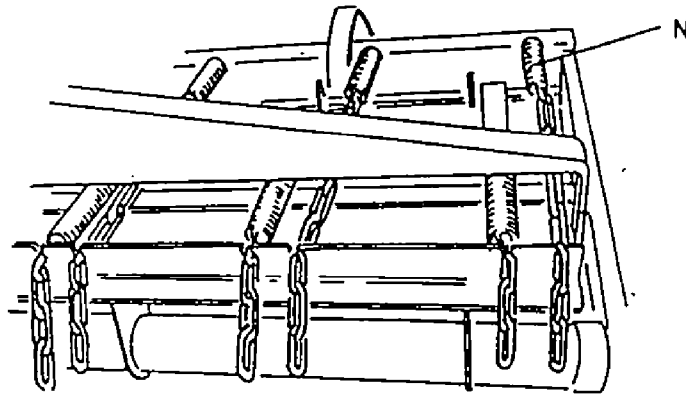


Fig. 11 b. Individual coulters pressure adjustment.

2. INDIVIDUAL COULTER PRESSURE ADJUSTMENT

The spring load of the coulters can be adjusted individually by tightening or loosening the adjusting chain of the springs. The coulters pressure for instance in the tractor wheel marks can this way be increased to achieve sufficient and even sowing depth.

The suitable sowing depth varies depending on soil, humidity and seed. For cereals the average sowing depth is 4 - 6 cm and for small seeds 2 - 4 cm. The aim should always be to place the seed in moist soil.

The general rule is that THE CULTIVATING DEPTH SHOULD BE THE SAME AS THE SOWING DEPTH. This way it is easy for the seed coulters to place the seed on the firm, moist soil in the border zone between cultivated and untouched soil. The sowing depth should always be checked by digging out the seeds in the seed row.

6.12. ADJUSTMENT OF THE CLUTH/GEAR SYSTEM

In the left front corner of the drill there is a set of gears which transfers the power from the land wheels to the gearboxes. The middle gear is connected to a coupling lever. When the drill is raised, the gear lever will disconnect the drive gear and thereby interrupt the work of the feeding mechanisms. By adjusting the lever upwards in the adjusting slot it will disconnect earlier, and by adjusting the lever downwards it will disconnect later.

6.13. CHECKING THE FUNCTIONING OF THE DRILL

- The adhesive tape on the feed axle on the fertilizer unit can be used to see if the feeding is connected or disconnected.
- The area meter can be used to control the emptying of the hoppers. For instance, if you sow 500 kg of fertilizer per hectare and empty two large bags (1.200 kg) in the hoppers), one hopper will be enough for over 2 hectares.
- Blocking of fertilizer coulter can be checked through the window of the feed unit.
- Blocking of seed coulter can be checked by turning the calibration tray backwards to see into the funnels.

NOTE! The best way to avoid blocking of the coulters is to lower and lift the machine while moving forward.



NOTE! There is a shutter under the feed funnel that enables the lowering of the machine down when filling the hoppers.

NOTE! Do not let the drill move backwards when the coulters are down.



NEVER GO UNDER AN UNSUPPORTED DRILL!

6.14. GENERAL INSTRUCTIONS

- Always lift and lower the drill when it is moving forward. If this is not possible, for example in field corners, be careful that the coulters do not get blocked.
- Sowing can be done by driving around the field or by driving 4 -4 rounds and then back and forth the straightest side. Both methods force you to turn the machine on a sown field. If you want to avoid this, the headlands can be sown last. Start sowing on a straight side and mark the headland width in the field. You can also estimate 2-4 width of the machine as headlands, where the drill can be easily turned. By sowing the headlands last you will have an even and untrampled sow.
- As the seed is placed on the border zone between cultivated and untouched soil, the field must be cultivated down to the sowing depth, and the cultivating soil must be even. This ensures successful sowing.

6.15. OTHER DRIVING INSTRUCTIONS

- The recommended sowing speed is 6-12km/h depending on the driving conditions.



NOTE! The driver is responsible for making sure that there are no people on top of the drill or at the danger zone when the drill is moving.

- Avoid sharp turns when the coulters are down.
- When reversing, always make sure there is enough ground clearance.

7. MAINTENANCE

Proper maintenance will ensure that your drill operates smoothly and without stoppages during the busy sowing season.

1. Before commencing work, check that all screws and nuts are tightened according to Chart 1. Especially on a new drill the screws and nuts should be checked and tightened after a few hours' work.

2. Check the tyre pressure and make sure they correspond to those given in the the Technical Specifications.

3. The tightness of the wheel bolts must be checked regularly (see Operating Instructions for rims in Section 2).

4. Check and lubricate all bearings regularly.

Check, tighten and lubricate all chains regularly.

More detailed instructions on lubrication points and hours between lubrication are given in the Maintenance Instructions that follow (see next page).

Use high quality greases and oils for lubrication. Follow the recommendations and instructions for their use.

5. Check the frame and other constrictions visually before the season to eliminate further damage by broken parts.

6. Clean the drill carefully after each use. This increases the reliability and service life of the drill. The drill can be cleaned using water under high pressure, but special care should be taken to avoid directing the jet on electric instruments and other parts that may be damaged (e.g bearings).

7. After the cleaning, lubricate all parts that may rust lightly with oil and let the machine idle for a while to spread the lubricants and remove water.

8. Paint the metal parts that have been worn in use.

9. During maintenance, make sure that lubricants and other oils or greases do not end up in the environment.

MAINTENANCE INSTRUCTIONS

Proper maintenance and lubrication will ensure that your drill operates smoothly and without stoppages during the busy sowing season. On a new drill all screws and nuts should be checked and if necessary tightened after a few hours' work. The tyre pressure and the tightness of the wheel bolts should be checked regularly. Too low tyre pressure increases the feed rate.

All roller chains should be checked from time to time and tightened if necessary.

Hours between lubrication can be seen in Chart 7.1. The chart gives the hours for normal work, in hard work the lubrication should be done more often.

Usually it is enough to pump once or twice through the grease nipple of the grease gun. JUKO machines have lubricated-for-life ball bearings, so they do not need much lubrication.

Be careful when using a pneumatic grease gun, so that the bearing covers are not damaged.

The chains can be lubricated either with a brush or by immersing them in grease. Use a brush to grease parts that wear easily.



NOTE! The cassette does not need maintenance.

7.1. LUBRICATION CHART

<u>Lubrication points</u>	Number of nipples	Hours between lubrication
Fertilizer hopper:		
1. Feed shaft end bearing, right end of hopper.....	1.....	20
2. Intermediate shaft, both ends of hopper.....	2.....	40
3. Gear/sprocket right end of hopper.....	1.....	20
Seed hopper:		
4. Feed shaft end bearing, left end of hopper.....	1.....	40
Frame:		
5. The shaft of the clutch, in the front, left corner.....	1.....	20
6. Seed coulter adjusting bar bearings, under the hopper, in the rear.....	4.....	40
7. Coulter pressure adjusting screw nuts, under the hopper, in the rear.....	2.....	40
8. Connection shaft of adjusting frames, under the front bar of the frame.....	4.....	40

The chart indicates lubrication points, number of nipples and hours between lubrication. High quality multipurpose grease should be used for lubrication. Care should be taken to ensure that the nozzle of the grease gun and the grease nipple on the drill are clean. Pump only once or twice, usually that is enough. Surplus grease is wiped off. Clogged and faulty nipples should be replaced.

The roller chains should be lubricated using clean SAE 20 lubrication oil. At the end of the sowing season, the chains should be removed and carefully cleaned with petrol. The chains should then be completely immersed in molten graphite grease. After this it is not necessary to lubricate the chains during the season.

7.2. TORQUE

If there are no other instructions elsewhere, use the following torque values when tightening screws. The torque values depend on the diameter and hardness of the screw (hardness is indicated in the head of the screw).

Torque Nm

Diameter mm	Hardness	
	8.8	10.9
5 mm	6	9
6 mm	11	17
8 mm	28	40
10 mm	55	80
12 mm	95	140
16 mm	235	350
20 mm	475	675
24 mm	825	1170
30 mm	1630	2320

7.3. TYRE PRESSURE

H2500		
H2500 with hopper extension	14.9 R24	157kPa (1,6 bar)
H3000		
H3000 with hopper extension	14.9 R24	176 kPa (1,8 bar)
H4000		
Alternative wheel	500/60-26.5"	79-98 kPa (0,8-1,0 bar)

7.4. OPTISEED ROTATION SPEED CONVERTER

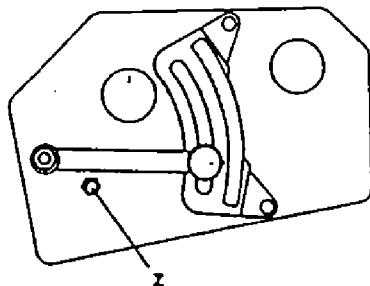


Fig. 12. Optiseed

The Optiseed rotation speed converters do not need much maintenance. Occasionally check that the oil level is close to the rim of the filling opening (Z). The oil should be changed after every 500 hours of use. Remove the old oil through the filling opening (Z) either by sucking or loosening the Optiseed and turning it. Tighten the plug again and fill new oil to the rim of the filling opening (Z), using gear oil SAE 90. The capacity is approximately 0,5 litre. Possible repair should be done by the dealer or importer.

NOTE!



The screws (M8) that go through the cover of the Optiseed must be tightened carefully. The correct torque value is 1 kpm ~ 10 Nm. Overtightening the screw can make the cover to crack.

7.5. THE CLUTCH

The functioning of the clutch situated in the left front corner of the drill should be checked during maintenance. When the drill is lower down the middle gear must come down by its own weight. This is ensured by the tension spring.

7.6. FERTILIZER COULTERS

The tip of the coulters should be changed when the difference between the tip and the sideplates is less than 5 mm. Worn coulters are easily blocked.

There are two ways to do this:

1. Remove the worn triangle-shaped tip by opening the seams of the lower part of the fertilizer coulters and sideplates and welding there the new tip (spare part no. 35427).



Fig. 13.

2. Weld the replacement tip (part. n:o 35431) right under the worn tip, when there is no need to remove the old tip. This method does not guarantee such durability for the coulters as in the first method, because welding heats up the replacement tip.

7.7. SEED COULTERS

Sharpen the tip of the seed coulters when the width of the tip bottom is over 5 mm.

Change the tip when the width of the bottom is over 10 mm or when the distance between the bottom of the tip and the lower edge of the funnel is below 15 mm.

The rivet (17) of the tip can be removed either by drilling or with a special tool (300430). To rivet the tip back, use either a hammer or the same special tool (300430) by changing the head.

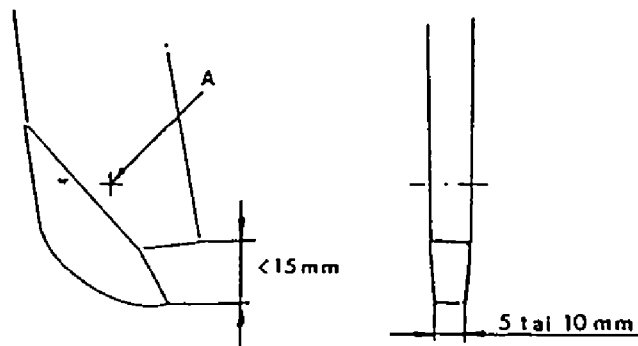
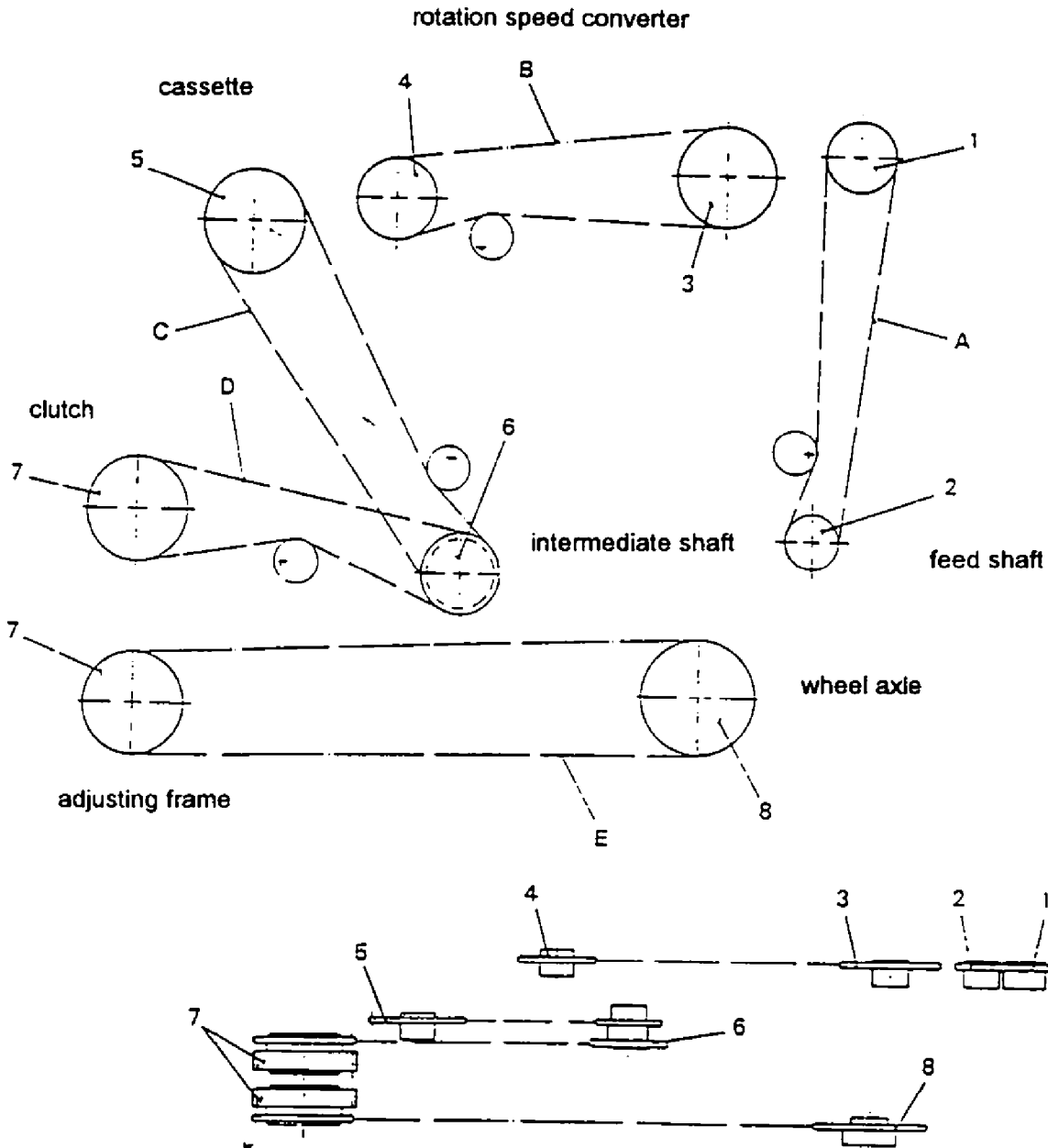


Fig. 14 and 15.

CHAIN TRANSMISSIONS FOR SEED (LEFT END)

H2500
H3000
H4000



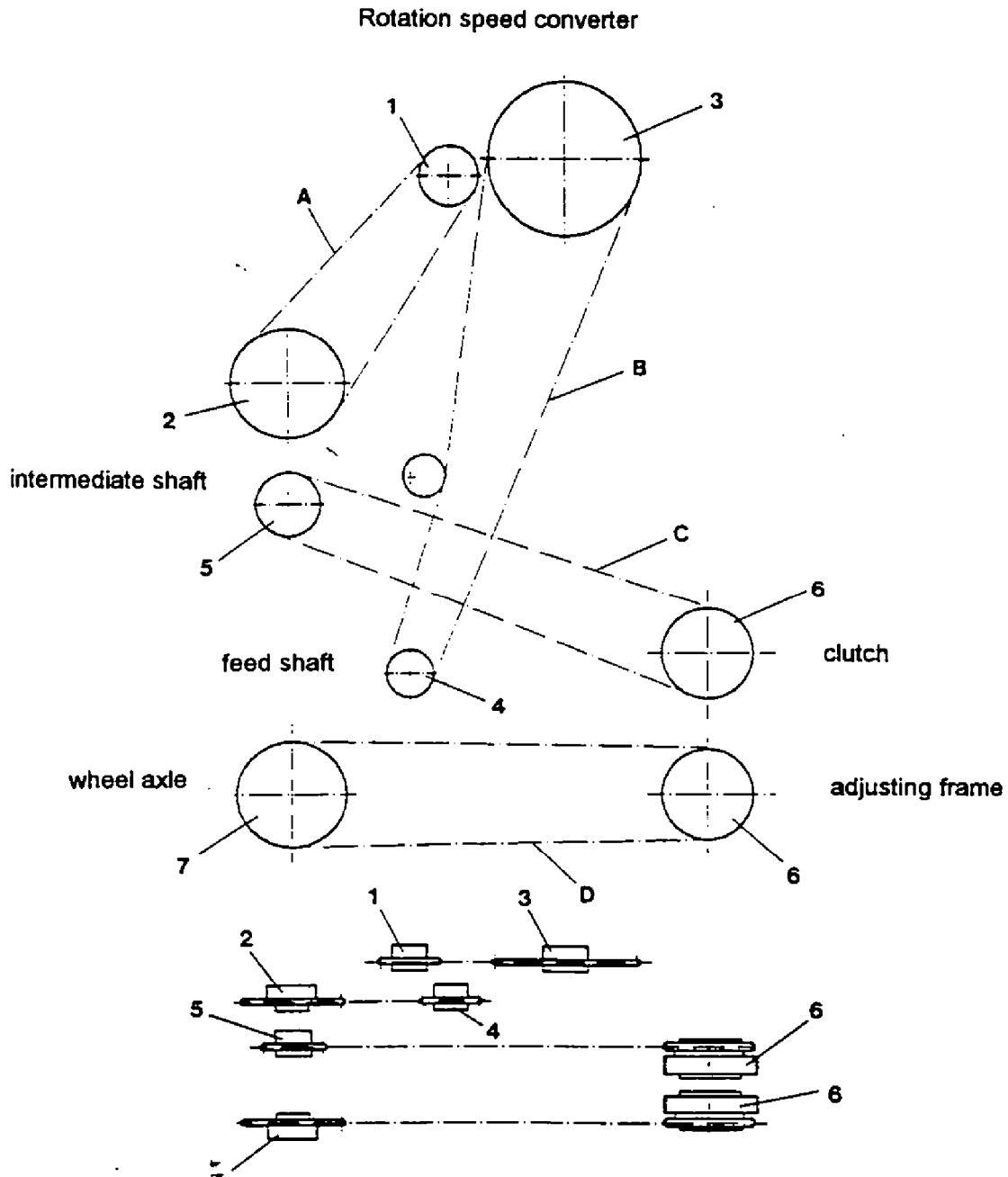
Sprockets:

1.	20524	Z=20	t=12,7
2.	30238	Z=15	t=12,7
3.	30237	Z=30	t=12,7
4.	31736	Z=24	t=12,7
5.	30237	Z=30	t=12,7
6.	35238	Z=20/18	t=12,7/15,875
7.	350189	Z=24	t=12,875
8.	41939	Z=29	t=15,875 2,5 m

Roller chains:

A.	1/2x5/16 - 106 l.
B.	1/2x5/16 - 151 l.
C.	1/2x5/16 - 145 l.
D.	5/8x3/8 - 109 l.
E.	5/8x3/8 - 135 l.

CHAIN TRANSMISSIONS FOR FERTILIZER (RIGHT END) H4000



Sprockets:

1. 20524	Z=20	t=12,7
2. 42959	Z=36	t=12,7
3. 42958	Z=52	t=12,7
4. 30238	Z=15	t=12,7
5. 42960	Z=18	t=15,875
6. 350189	Z=24	t=15,875
7. 41939	Z=29	t=15,875

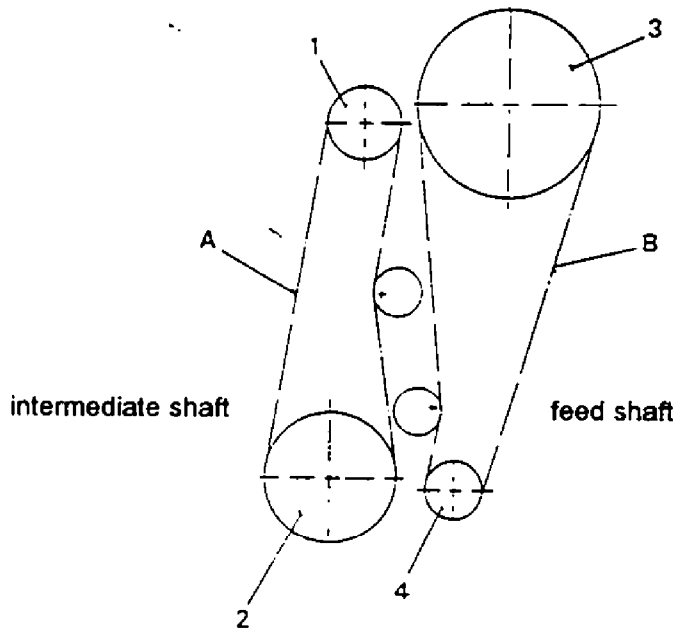
Roller chains:

A.	1/2x5/16-73 l.
B.	1/2x5/16-130 l.

CHAIN TRANSMISSIONS FOR FERTILIZER (RIGHT END)

H2500
H3000

Rotation speed converter



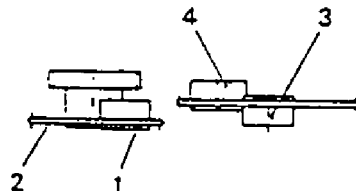
Sprockets:

- | | | |
|----------|------|--------|
| 1. 20524 | Z=20 | t=12,7 |
| 2. 30641 | Z=36 | t=12,7 |
| 3. 40258 | Z=52 | t=12,7 |
| 4. 39238 | Z=15 | t=12,7 |

30238

Roller chains:

- | | |
|----|-----------------|
| A. | 1/2x5/16-120 l. |
| B. | 1/2x5/16-132 l. |



9. STORING

GENERAL

Before storing the machine should be carefully cleaned, lubricated and adjusted according to the instructions.

The tension of all strings should be released.

Part of the cleaning can be made using water under high pressure, but care should be taken to avoid directing the jet directly on the bearings and other parts that may be damaged by the pressure.

All joints, chains etc. are maintained and lubricated.

Unpainted and uncovered metal parts that get worn out in use should be treated with oil for storing over the winter.

The drill should be stored under roof in a dry and dustless place. If this is not possible, the drill must be covered with a tarpaulin.

The drill must be emptied before storing.

STORING THE COMBINATION PLACEMENT DRILL

The combination placement drill should always be stored under roof in a dry place.

After the sowing season the drill must be EMPTIED and thoroughly CLEANED of fertilizer, seed and soil. The cones of the fertilizer hopper are removed and cleaned. The machine can be cleaned using water under high pressure, but care should be taken to avoid directing the jet on the Optiseed boxes and bearings. After cleaning the maintenance work explained in section 7 should be undertaken. It is also advisable to oil the coulter tips to prevent corrosion.

The area meter display box should be kept in a dry place.

The drill should be checked before storing and any faults repaired well before the following season.

When ordering spare parts for the drill, always quote the serial number and type of the machine.

DISPOSAL, BREAKING UP AND RECYCLING

1. Disposal of hoses, oils as well as rubber and plastic parts should be carried out according to official regulations.
2. No special measures are needed to dispose of the metal parts.
3. Recycling of all material and parts is recommended.

TERMS OF WARRANTY

The manufacturer, Oy Juko Ltd, grants to its products warranty, which is valid under following terms:

I Warranty period is one year from the date of delivery to the final customer, however, this date of delivery should not be later than two years from the date of delivery from the manufacturer, or the following operated maximum acreages per one machine:

1. seed drills	200 ha
2. planters	100 ha
3. potato diggers	10 ha
4. potato harvesters	50 ha
5. sugar beet harvesters	75 ha/row
6. stone collecting machines	50 ha.

Which ever, year or acreage, comes first is applied.

II Warranty is valid also for spare parts which are supplied from Oy Juko Ltd or an authorized Juko dealer.

III Warranty covers material or manufacturing faults. In case an acceptable warranty, manufacturer will supply a new or an approvingly repaired part.

IV Warranty does not cover following:

- damages caused by careless handling or storing
- damages caused by normal wearing
- parts which are worn normally
- indirect costs as standing costs, loss of income and loss of handled material caused by a failure covered by guarantee
- all kind of losses caused by parts which are supplied from elsewhere than Juko Ltd or authorized Juko dealer
- freight costs
- repairing or travel costs

V Oy Juko Ltd will compensate warranty if:

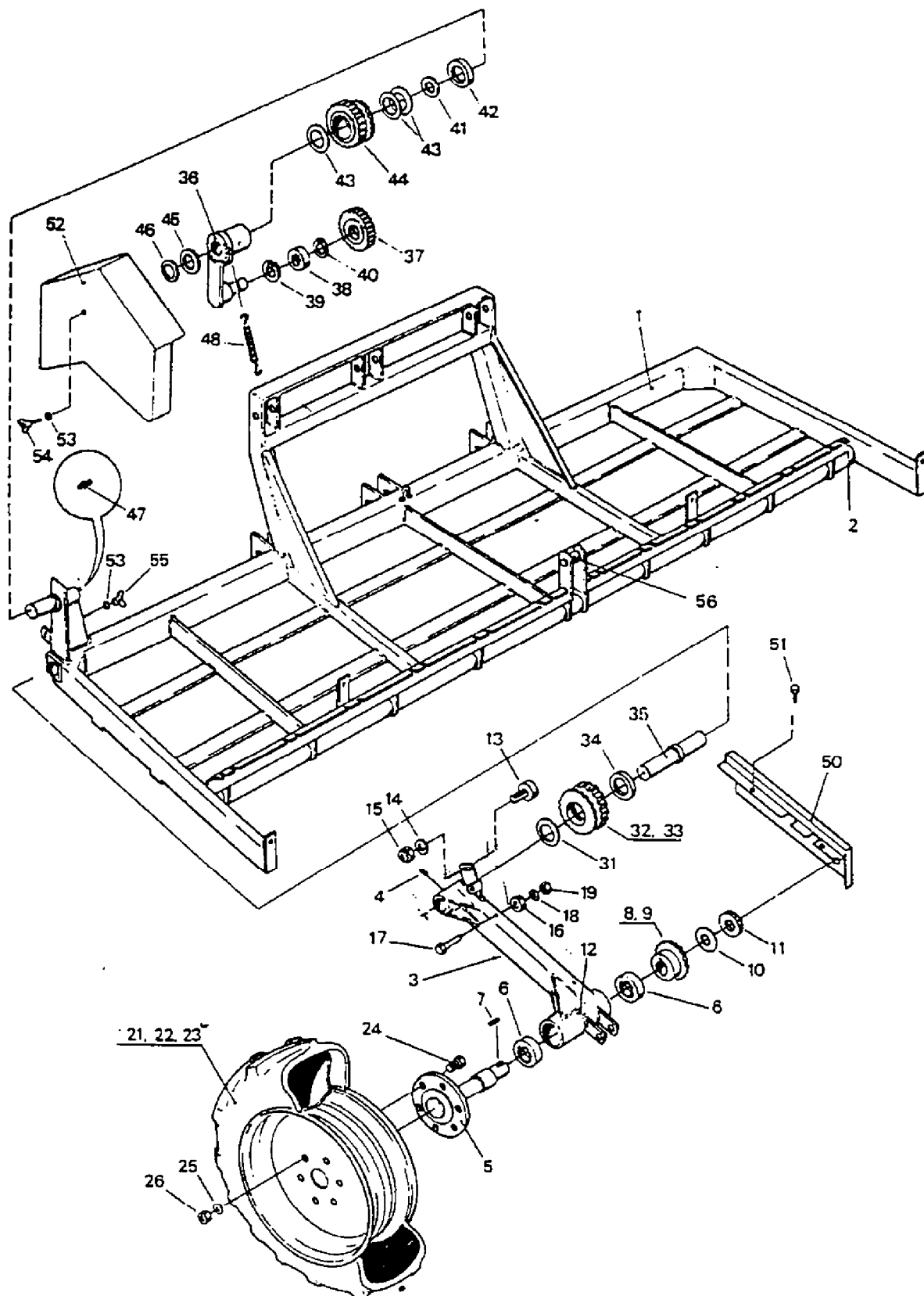
- damage has taken place in normal operation condition
- instructions given by manufacturer have been followed
- repairing work has been carried out by a person authorized by Juko Ltd or an authorized dealer of Juko Ltd
- while repairing, original Juko spare parts have been used

VI A warranty claim

- all claims must be expressed to the dealer of the machine
- damaged parts must be delivered to the dealer at the same time
- a dealer will prepare a written warranty claim to the manufacturer and a damaged part must be sent to the manufacturer if requested
- a warranty claim must be done within 30 days after damage

11. OPTIONAL EQUIPMENT

X-6039A	Drawbar set	1858, 1881
X-8052	Juko Control-control equipment	1865
X-6018A	Rear harrow	1850, 1851, 1855
X-7021	Pressure rollers	1852
X-6034A	Transport equipment	1882
X-1001	Hopper extension	1811, 1812
X-0046	Additional hopper	1841, 1842
X-0023	Additional hopper, mounting kit.	1847
X-6037A	Rowmarked	1893

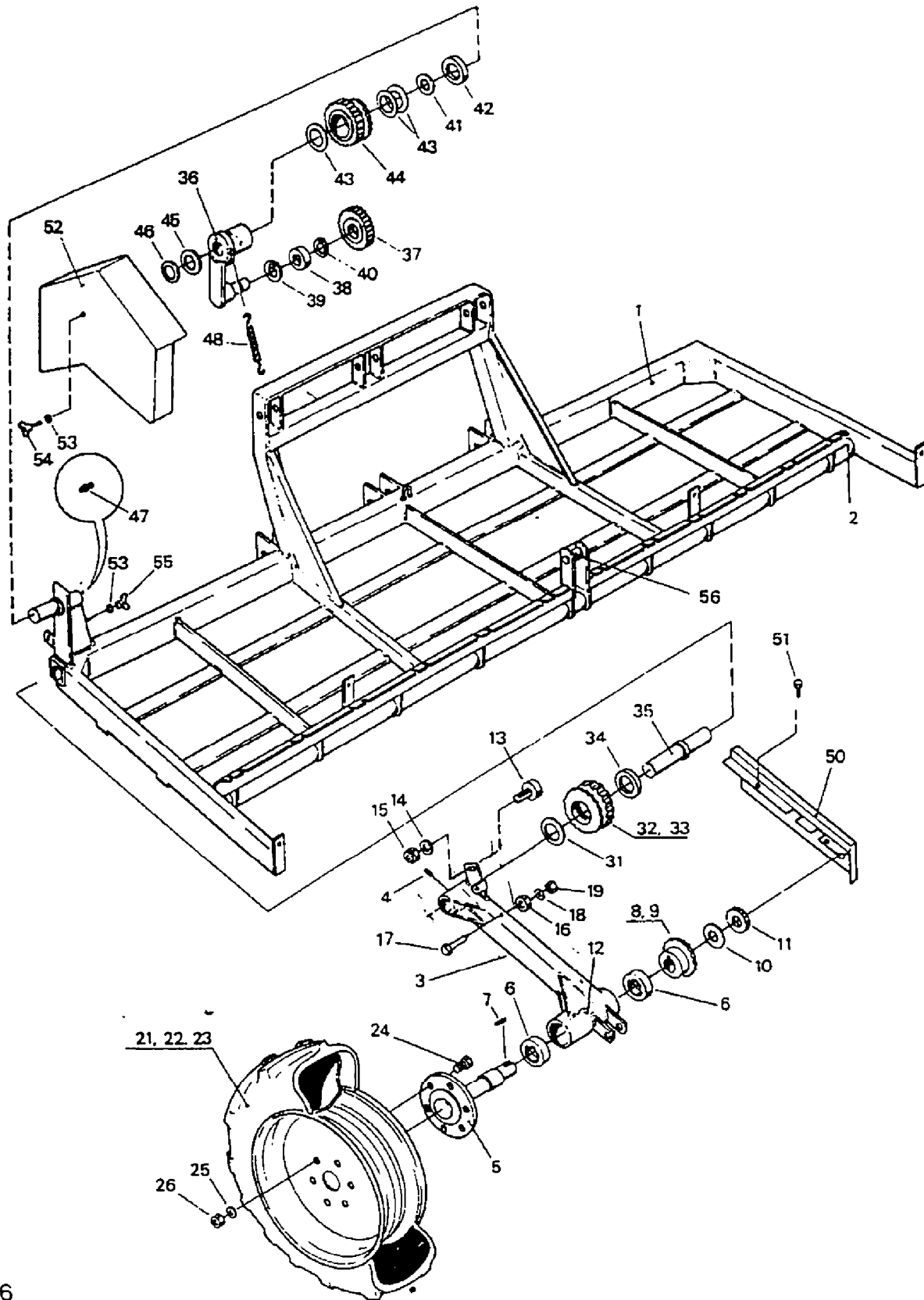


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	FRAME	Qty/unit		
			2,5	3,0	4,0
1	41937	Frame	1		
1	41914	Frame		1	
1	42941	Frame			1
2	30263	Lubricating nipple			4
		M 6	4	4	4
3	41917	Adjusting frame, right	1	1	
3	41918	Adjusting frame, left	1	1	1
3	42947	Adjusting frame, right			1
4	41923	Set, screw			8
		M 20x25	8	8	8
5	41919	Axle	2	2	2
6	42186	Ball bearing			4
		6211 RS	4	4	4
7	60127	Key/left adjusting frame			1
		8x7x28	1	1	1
8	41939	Sprocket / left adjusting frame			1
		29 T, t=15.875	1	1	1
8	41939	Sprocket / right adjusting frame			1
		29 T, t=15.875			1
9	35193	Bush/right adjusting frame	1	1	
10	10848	Lock washer			2
		MB6	2	2	2
11	10847	Axle nut			2
		KM 6	2	2	2
12	42125	Safety plug			2
		DBI n:o 8	2	2	2
Left adjusting frame:					
13	35191	Axlepin	1	1	1
14	30887	Washer			1
		M 16	1	1	1
15	53190	Nut, lock			1
		M 16	1	1	1
16	31261	Chain tightener			1
		L=28	1	1	1
17	13526	Screw, hex			1
		M 10x120	1	1	1
18	10607	Washer			1
		M 10	1	1	1
19	10760	Nut, hex			1
		M 10	1	1	1
Right adjusting frame:					
13	35191	Axlepin			1
14	30887	Washer			1
		M 16			1
15	53190	Nut, lock			1
		M 16			1
16	31261	Chain tightener			1
		L=28			1
17	13526	Screw, hex			1
		M 10x120			1
18	10607	Washer			1
		M 10			1
19	10760	Nut, hex			1
		M 10			1

Items marked with x not shown.

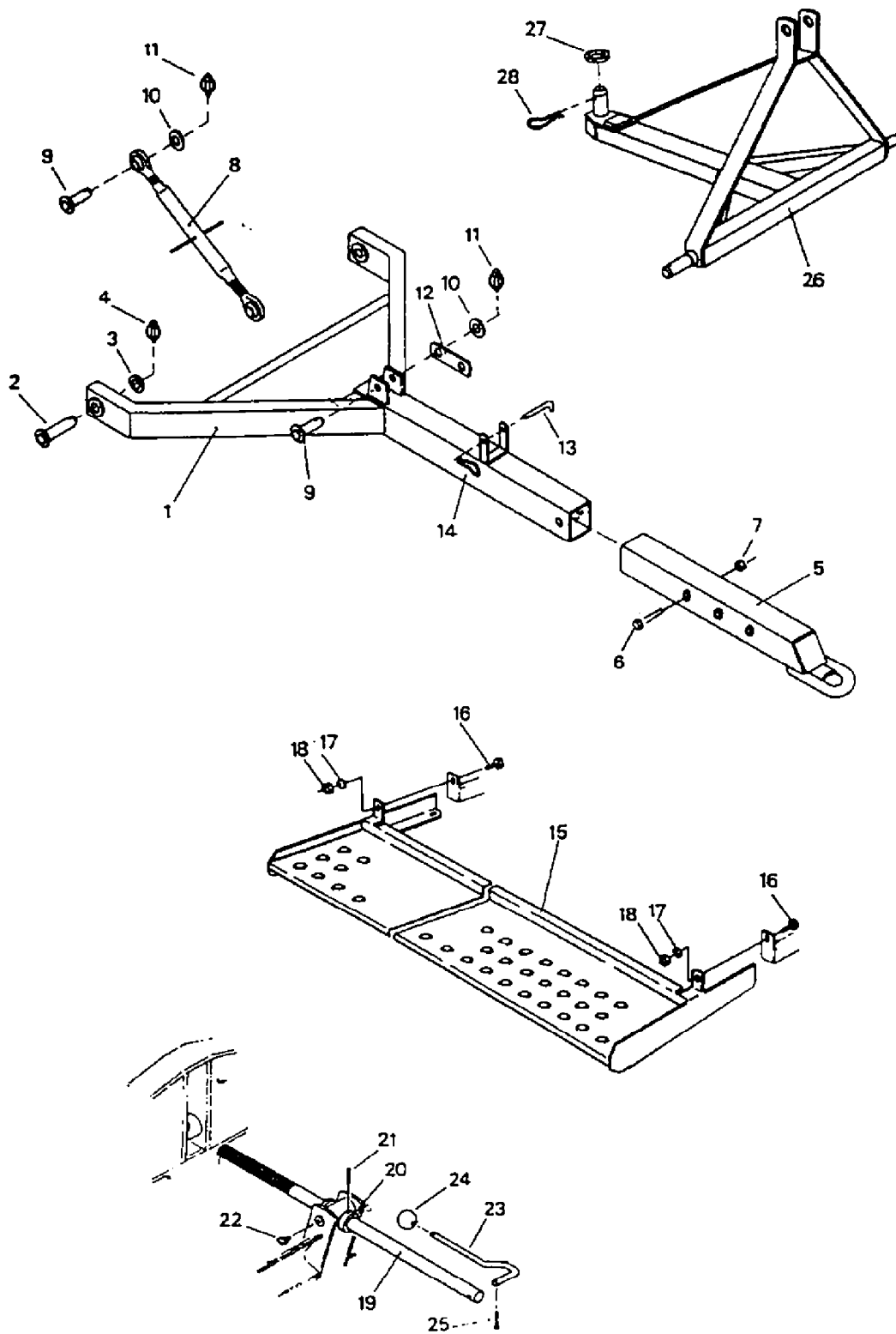


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	FRAME	Qty/unit			
			2,5	3,0	4,0	
	870439	Wheel, assy				
21	87439	Rim	13.00x24	2	2	2
22	86121	Tube	13.00x24	2	2	2
23	86120	Tyre	14.90x24/8TR	2	2	2
24	53167	Screw, hex	M 20x60	12	12	12
25	53942	Washer	M 20	12	12	12
26	53463	Nut, locking	M 20	12	12	12
31	40199	Washer	65,5x85x1,5	1	1	1
32	350189	Gear/sprocket		1		1
33	42163	Sleeve bearing	MB 6550 DU	1		1
34	35192	Bush		1	1	2
35	41938	Axle		1		
35	41915	Axle			1	
35	42942	Axle				1
x	41916	Bearing	JM 3 - 15	2	2	2
	350187	COUPLING		1	1	2
36	35187	Coupling lever		1	1	2
37	35190	Gear	20 T M6	1	1	2
38	55175	Ball bearing	6205 2 RS	1	1	2
39	52427	Circlip	J 52x2	1	1	2
40	10525	Circlip	A 25x1,2	1	1	2
41	54336	Washer	30,5x40x1	2	2	4
42	35192	Bush		1	1	2
43	40199	Washer	65,5x85x1,5	3	3	6
44	350189	Gear/Sprocket		1	1	2
45	25155	Washer	31x51,5x2	2	2	4
46	57235	Circlip	A30x2	1	1	2
47	30263	Lubricating nipple	M 6	1	1	2
48	31452	Tension spring		1	1	2
x		Roller chain	5/8x3/8x135 l.	1	1	2
50	41926	Chain guard, left		1	1	1
50	42964	Chain guard, right				1
51	32528	Screw, hex	M 8x22	2	2	4
52	35908	Guard, left		1	1	1
52	42965	Guard, right				1
53	41599	Washer	9x35x2	2	2	4
54	63712	Screw, wing	M 8x16	1	1	2
55	30966	Wing nut	M 8	1	1	2
56	30265	Angle nipple	M 6	1	1	1

Items marked with x not shown.

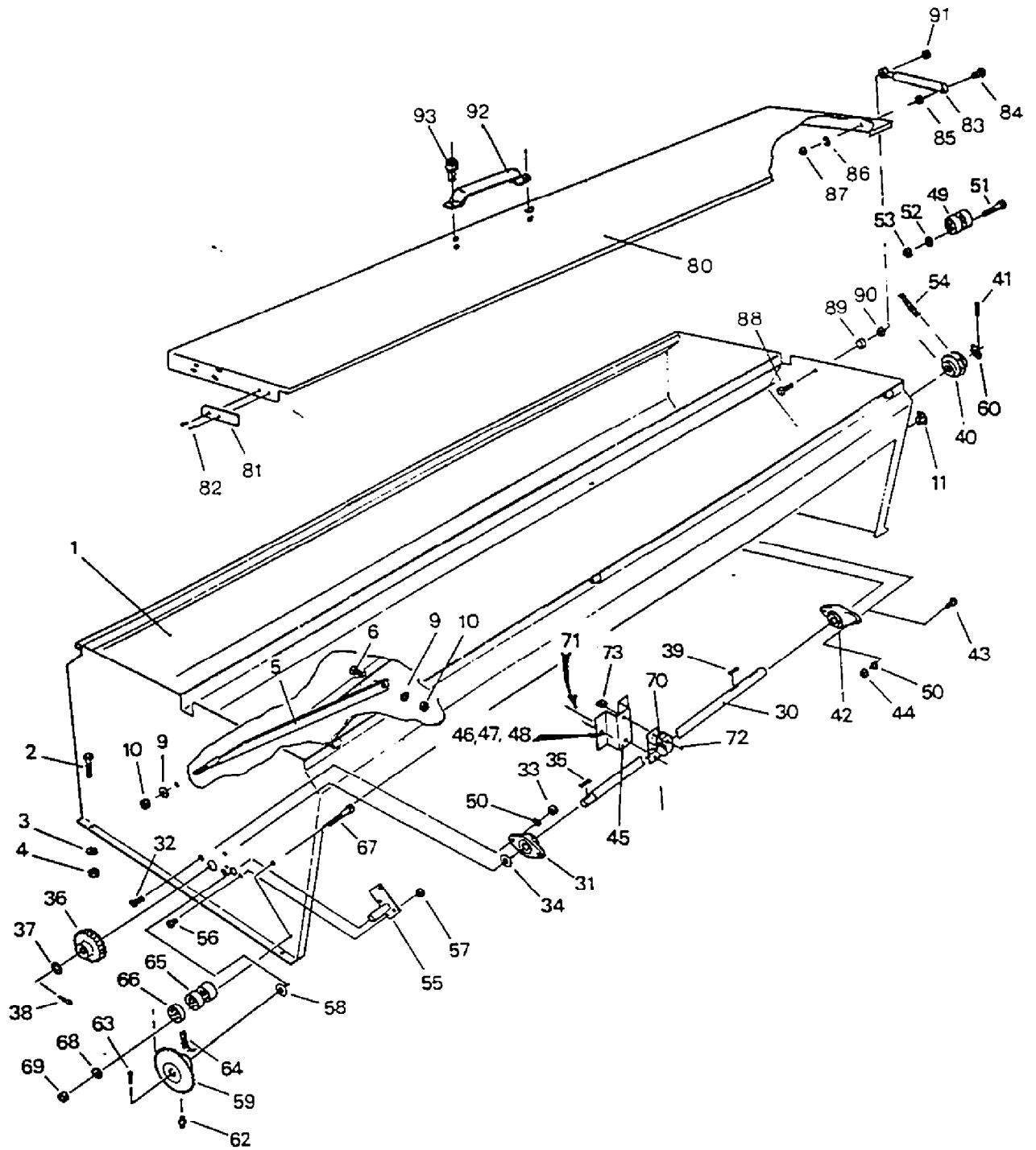


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	FRAME	Qty/unit		
			2,5	3,0	4,0
1	35171	Drawbar, frame	1	1	1
2	30911	Axle	2	2	2
3	30930	Washer		31,5x50x4	2
4	40150	Linch pin		D 9	2
5	40997	Drawbar	1	1	1
6	54136	Screw, hex		M 20x120	1
7	53463	Nut, lock		M 20	1
8	35177	Shaft		D 25	1
9	53193	Axle pin	2	2	2
10	25110	Washer		26x36x4	2
11	40150	Linch pin		D 9	2
12	35158	Washer	1	1	1
13	40977	Pin	1	1	1
14	32558	Needle pin		D 4,5	1
15	35906	Foot board	1		
15	41922	Foot board			1
15	42946	Foot board			1
16	30522	Screw, hex		M 12x35	2
x	40106	Screw, hex		M 12x140	2
x	57233	Screw, hex		M 12x60	2
17	10462	Washer		M 12	4
18	30968	Nut, hex		M 12	4
19	31496	Adjusting screw	1	1	1
20	12103	Bush	1	1	1
21	31531	Spring clip		5x36	1
22	30265	Angle nipple		M 6	1
	620201	CRANK, assy	1	1	1
23	30558	Crank	1	1	1
24	20726	Knob	1	1	1
25	10463	Cotter pin		3,2x16	1
26	35913	Draw triangle	1	1	1
27	40923	Washer		42x80x6	1
28	40929	Needle pin	1	1	1
x	11104	Support leg	1	1	2
x	11109	Axle pin	1	1	2
x	57228	Needle pin		D 4,5	1

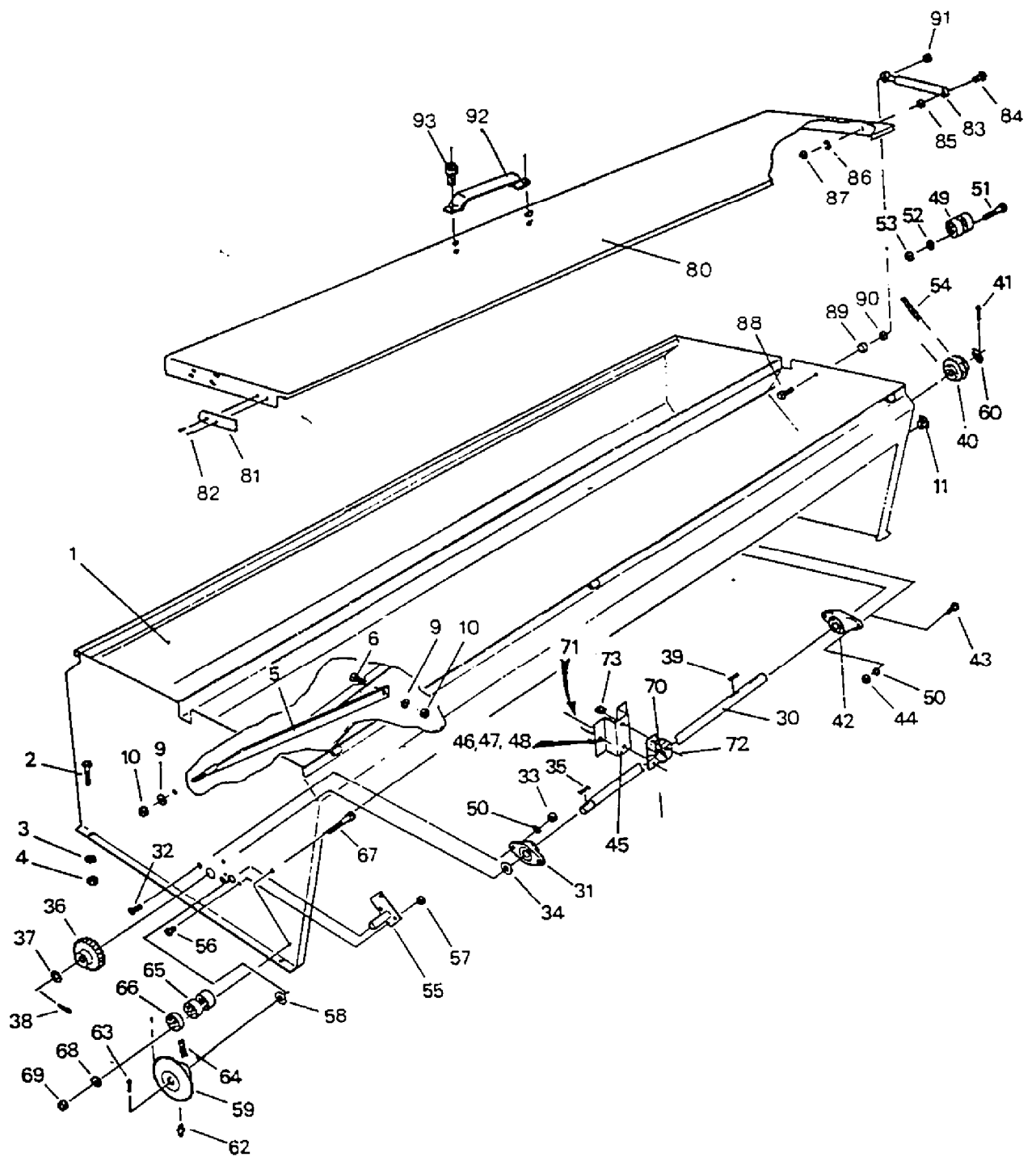
Items marked with x not shown..



JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	HOPPER FERTILIZER UNIT	Qty/unit		
			2,5	3,0	4,0
1	41238	Hopper	1		
1	41226	Hopper		1	1
1	42200	Hopper			1
x	41623	Cover Plug			1
		Vienola 44044 MD	7	7	7
2	40106	Screw, hex/back		2	2
x	40934	Screw, hex/front		2	2
x	40934	Screw, hex	4		
3	10462	Washer	4	4	4
4	56448	Nut, hex	4	4	4
5	32215	Backing	2	2	2
6	30949	Screw, hex	2	2	2
9	10462	Washer	4	4	4
10	56448	Nut, lock	4	4	4
x	30968	Nut, hex	2	2	2
11	35236	Cover Plug	4	4	4
		DBI n:o 12			
x	41640	Lid	1		
x	41624	Lid		1	
x	41636	Lid			1
x	30985	Screw, hex	20	21	21
x	30969	Nut, hex	20	21	21
x	10350	Washer, spring	20	21	21
x	41626	Plate	1	1	1
x	41625	Plate	1	1	1
x	41628	Support	1	1	1
x	41629	Support	1	1	1
x	41641	Intermediate plate	1		
x	41627	Intermediate plate		1	
x	41635	Intermediate plate			1
x	41630	Support	2	2	2
x	33560	Screw	2	2	2
x	30753	Washer	2	2	2
x	53282	Nut, hex	2	2	2
x	41642	Tube	1		
x	41631	Tube		1	
x	41637	Tube			1
x	41634	Plug	2	2	2
x	41647	Screw	2	2	2
x	163517	Washer	14	14	14
		Ø 8			
30	35239	Axle	1		
30	41233	Axle		1	
30	42203	Axle			1
31	57187	Flange bearing	1	1	
32	32257	Countersunk screw	2	2	
33	10760	Nut, hex	2	2	
34	56625	Washer	1	1	
35		Key	1	1	1
		6x6x30			

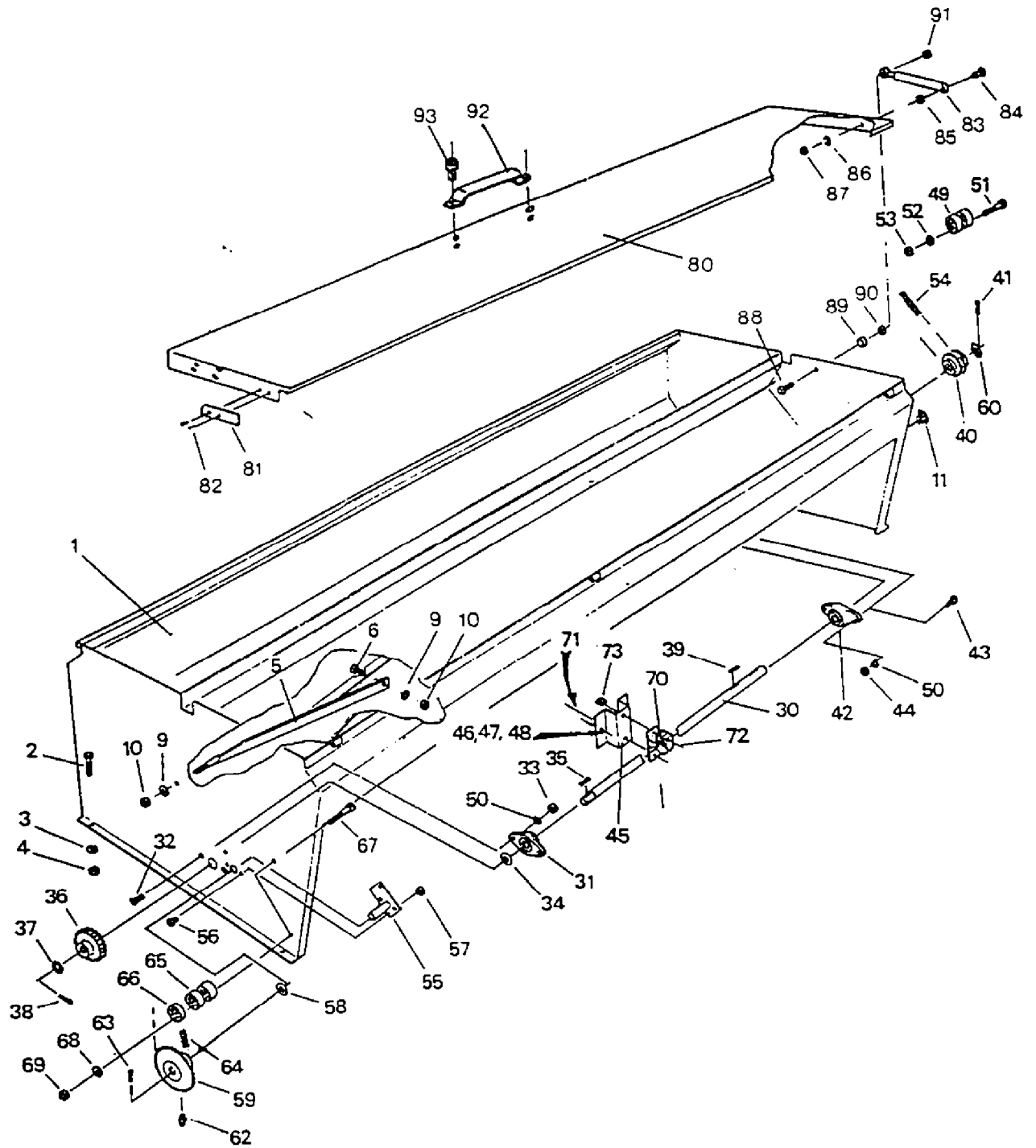


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-21151
 0G-21351
 1550-6081

Item	Part.n:o	HOPPER FERTILIZER UNIT		Qty/unit		
				2,5	3,0	4,0
36	20626	Gear	19 T, m=5	1	1	
37	10933	Washer	20,5x35x0,75	1	1	
38	10459	Cotter pin	5x32	1	1	
39		Key	6x6x45	1	1	1
40	35238	Double sprocket	20/18 T, t=12,7/15,875	1	1	1
41	10459	Cotter pin	5x32	1	1	1
42	57187	Flange bearing	FYTB 25 TF	1	1	1
43	30958	Screw, hex	M 10x25	2	2	2
44	10760	Nut, hex	M 10	2	2	2
45	41234	Clamping plate			1	
45	42202	Clamping plate				1
46	57535	Screw, hex	M 8x16		2	2
47	10784	Washer	M 8		2	2
48	30969	Nut, hex	M 8		2	2
49	31261	Chain tightener	L=28	2	2	2
50	10153	Spring washer	M 10	4	4	4
51	30953	Screw, hex	M 10x75	1	1	1
52	10607	Washer	M 10	1	1	1
53	10760	Nut, hex	M 10	1	1	1
54		Roller chaîne	1/2x5/16-109	1	1	1
55	31683	Axle		1	1	
56	53363	Screw	M 8x20	3	3	
x	10784	Washer	M 8	3	3	
57	30969	Nut, hex	M 8	3	3	
58	10613	Washer	20,5x35x2	2	2	
59	32635	Sprocket/gear, assy		1	1	
60	58526	Washer	25,5x40x1,5	2	2	
63	10459	Cotter pin	5x32	1	1	
64		Roller chain	1/2x5/16-120	1	1	
65	31261	Chain tightener	L=28	2	2	2
66	31263	Chain tightener	L=16	1	1	1
67	30287	Screw, locking	M 10x90	1	1	1
68	10607	Washer	M 10	2	2	2
69	10760	Nut, hex	M 10	1	1	1
70	31674	Bearing			1	
70	90321	Bearing	SY25TF			1
71	57535	Screw, hex	M 8x16		1	
71	30957	Screw, hex	M 10x30			2
72	60339	Screw, hex	M 8x90		1	
x	10607	Washer	M 10			2
73	30969	Nut, hex	M 8		1	
73	10760	Nut, hex	M 10			2
x	42973	Support				1
x	42974	Support				1
x	30958	-Screw, hex	M 10x25			4
x	10607	Washer	M 10			8
x	10760	Nut, hex	M 10			4

Items marked with x not shown.

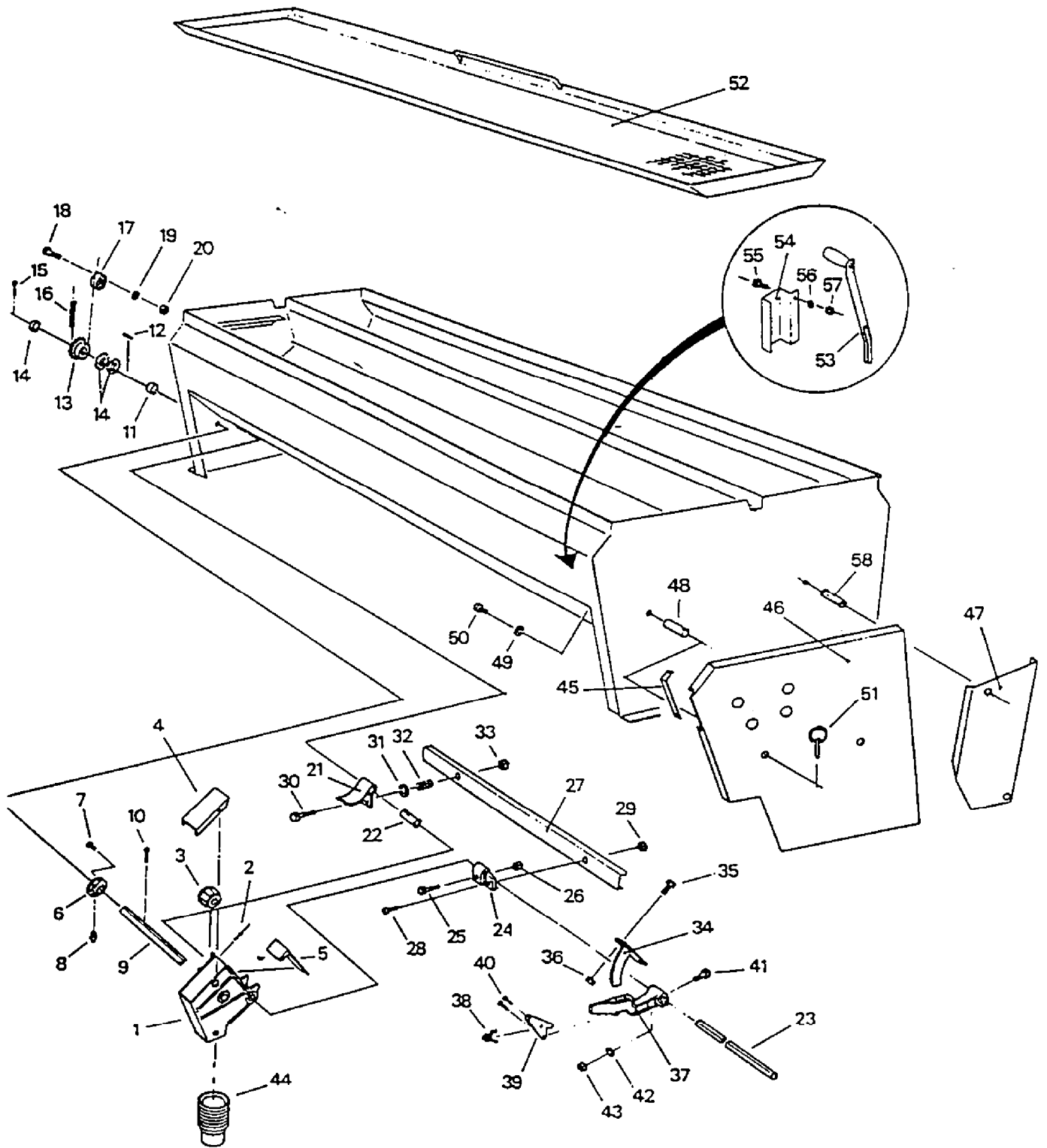


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11001
 1550-6081

Item	Part.n:o	HOPPER FERTILIZER UNIT	Qty/unit	
			2,5	3,0
80	41620	Lid	1	
80	41616	Lid		1
81	32225	Guard	1	1
82	41606	Rivet	2	2
		3,2x8 AL		
83	31946	Gas spring Suspa	2	2
x	35914	Wire cable	2	2
84	57537	Screw, locking	2	2
		M 8x25		
85	30969	Nut, hex	2	2
		M 8		
86	10784	Washer	2	2
		M 8		
87	57550	Nut, lock	2	2
		M 8		
88	53410	Screw, hex	2	2
		M 8x35		
89	41603	Bush	2	2
90	30969	Nut, hex	2	2
		M 8		
91	57550	Nut, lock	2	2
		M 8		
92	13239	Puller	3	3
93	95303	Rivet	12	12
		4,8x16		

Items marked with x not shown.

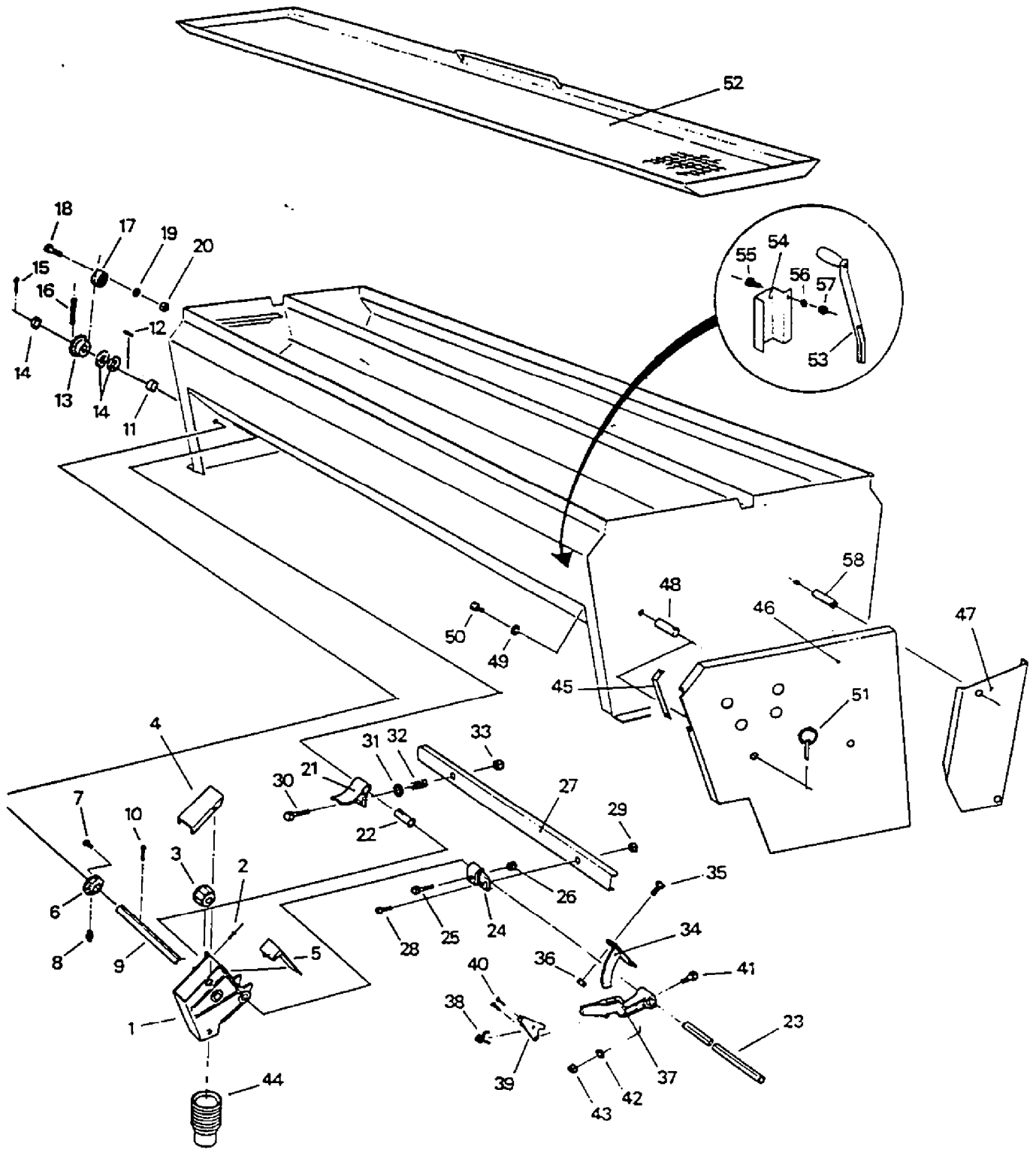


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-21151
 0G-21301
 1550-6081

Item	Part.n:o	HOPPER FERTILIZER UNIT	Qty/unit			
			2,5	3,0	4,0	
1	31607	Feed unit	10	12	16	
2	31213	Rivet	3,2x10	40	48	64
3	31699	Feed roller		10	12	16
4	30661	Lid	10	12	16	
5	31657	Feed unit shutter	10	12	16	
6	20621	Bearing	1	1	1	
7	30948	Screw	M 8x16	3	3	3
8	30263	Lubricating nipple	M 6	1	1	1
9	32620	Shaft	1			
9	41618	Shaft		1		
9	38215	Shaft			1	
x	10933	Washer	20,5x35x1	2	2	2
10	10459	Cotter pin	5x32	1	1	1
11	32262	Ring		1	1	1
x	10933	Washer	20,5x35x1	1	1	1
12		Key	6x6x30	1	1	1
13	30238	Sprocket	15 T, t=12,7	1	1	1
14	52424	Washer	20,5x30x2	1	1	1
15	10459	Cotter pin	5x32	1	1	1
16		Roller chain	1/2x5/16-132 links	1	1	1
17	31261	Chain tightener	L=28	2	2	2
18	53953	Screw, hex	M 10x70	1	1	1
19	10607	Washer	M 10	1	1	1
20	10760	Nut, hex	M 10	1	1	1
21	31609	Bottom flaps		10	12	16
22	31672	Bearing		10	12	16
23	32207	Axle		1		
23	41232	Axle		1		
23	31215	Axle			2	
24	31248	Bracket		5	6	8
25	66134	Screw, hex	M 8x40	5	6	8
26	30969	Nut, hex	M 8	5	6	8
27	32616	Adjusting ledge		1		
27	41613	Adjusting ledge			1	
27	32627	Adjusting ledge				2
28	30970	Screw	M 8x20	5	6	8
29	30969	Nut, hex	M 8	5	6	8
30	30256	Square-headed bolt	M 6x55	10	12	16
31	53503	Washer	M 6	10	12	16
32	31616	Break spring		10	12	16
33	30270	Nut, hex	M 6	10	12	16
34	31684	Adjusting piece		1	1	2
35	30255	Screw	M 6x12	2	2	4
36	30262	Nut, hex	M 6	2	2	4
x	53503	Washer	M 6	2	2	4

Items marked with x not shown.

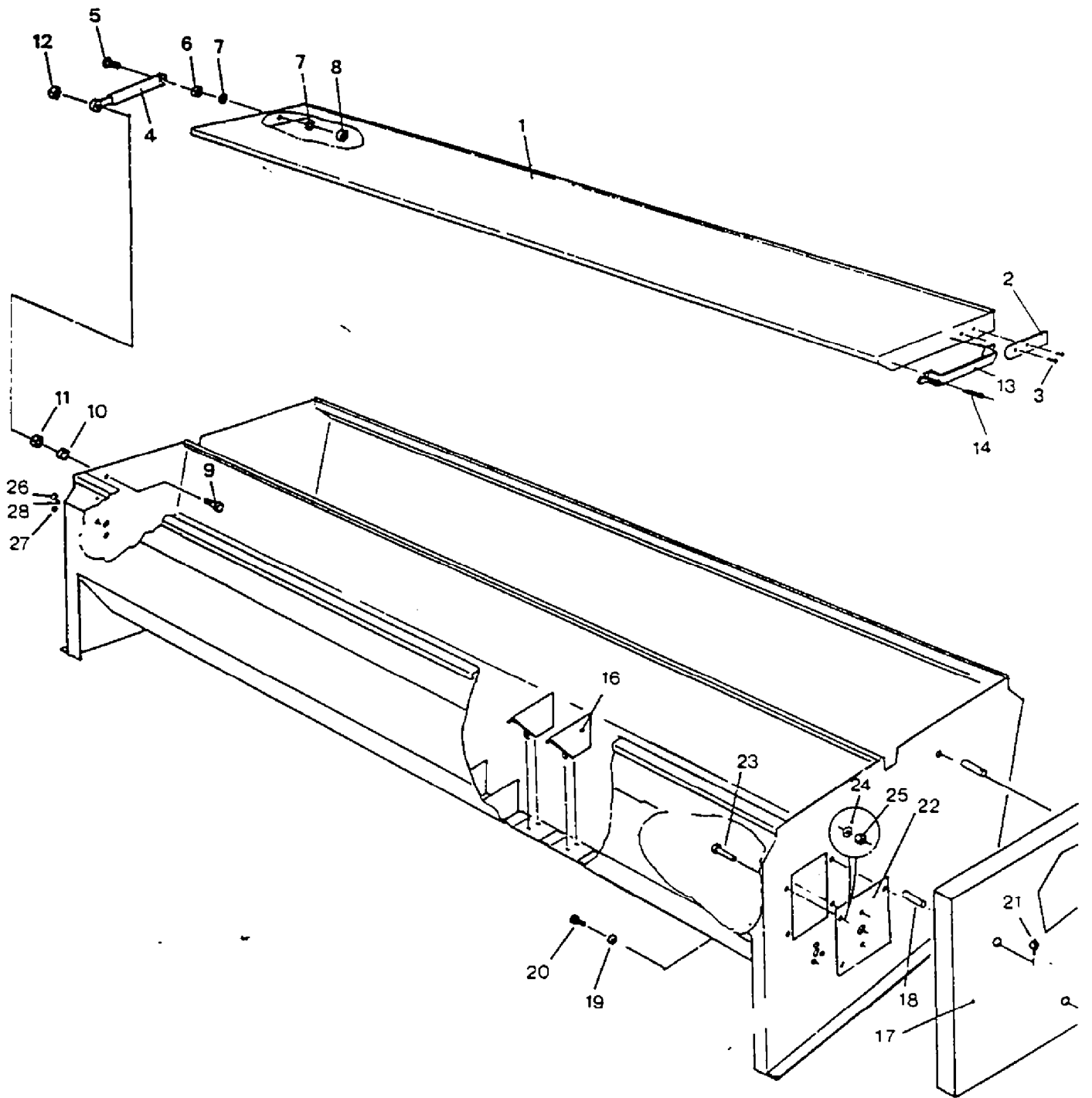


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	HOPPER FERTILIZER UNIT	Qty/unit		
			2,5	3,0	4,0
	310203	ADJUSTING LEVER, assy			
37	31203	Lever	1	1	2
38	10325	Spring	1	1	2
39	10220	Catch lever	1	1	2
40	10344	Rivet	2	2	4
		5x20			
41	31693	Screw, hex	1	1	2
		M 8x45			
42	20554	Washer	1	1	2
		10x30x2			
43	30969	Nut, hex	1	1	2
		M 8			
44	32602	Tube	10	12	16
		58/36,2-456			
x	30567	Bunch belt	10	12	16
45	41933	Plate	1	1	1
x	31213	Rivet	2	2	2
		3,2x10			
46	41929	Chain guard	1	1	1
47	41928	Chain guard, left	1	1	1
48	31948	Pin	2	2	2
49	10784	Washer	4	4	4
		M 8			
50	57535	Screw, hex	4	4	4
		M 8x16			
51	40150	Linch pin	4	4	4
		D 9			
52	41644	Screen	2		
52	41643	Screen		2	
52	41638	Screen			2
x	42204	Support	1	1	1
x	41648	Bracket	1	1	1
x	163514	Screw, hex	1	1	1
		M8x20			
x	163517	Washer	1	1	1
		M8			
x	30969	Nut, hex	1	1	1
		M8			
53	310950	Crank	1	1	1
54	31951	Bracket	1	1	1
55	57535	Screw, hex	1	1	1
		M 8x16			
56	10784	Washer	1	1	1
		M 8			
57	30969	Nut, hex	1	1	1
		M 8			
x	41614	Cone	4	5	7
x	53503	Washer	4	5	7
		M 6			
x	30262	Nut, hex	4	5	7
		M 6			
x	41930	Chain guard	4	5	7
x	10784	Washer	1	1	1
		M 8			
x	30969	Nut, hex	1	1	1
		M 8			
58	31993	Tap	2	2	2

Items marked with x not shown.

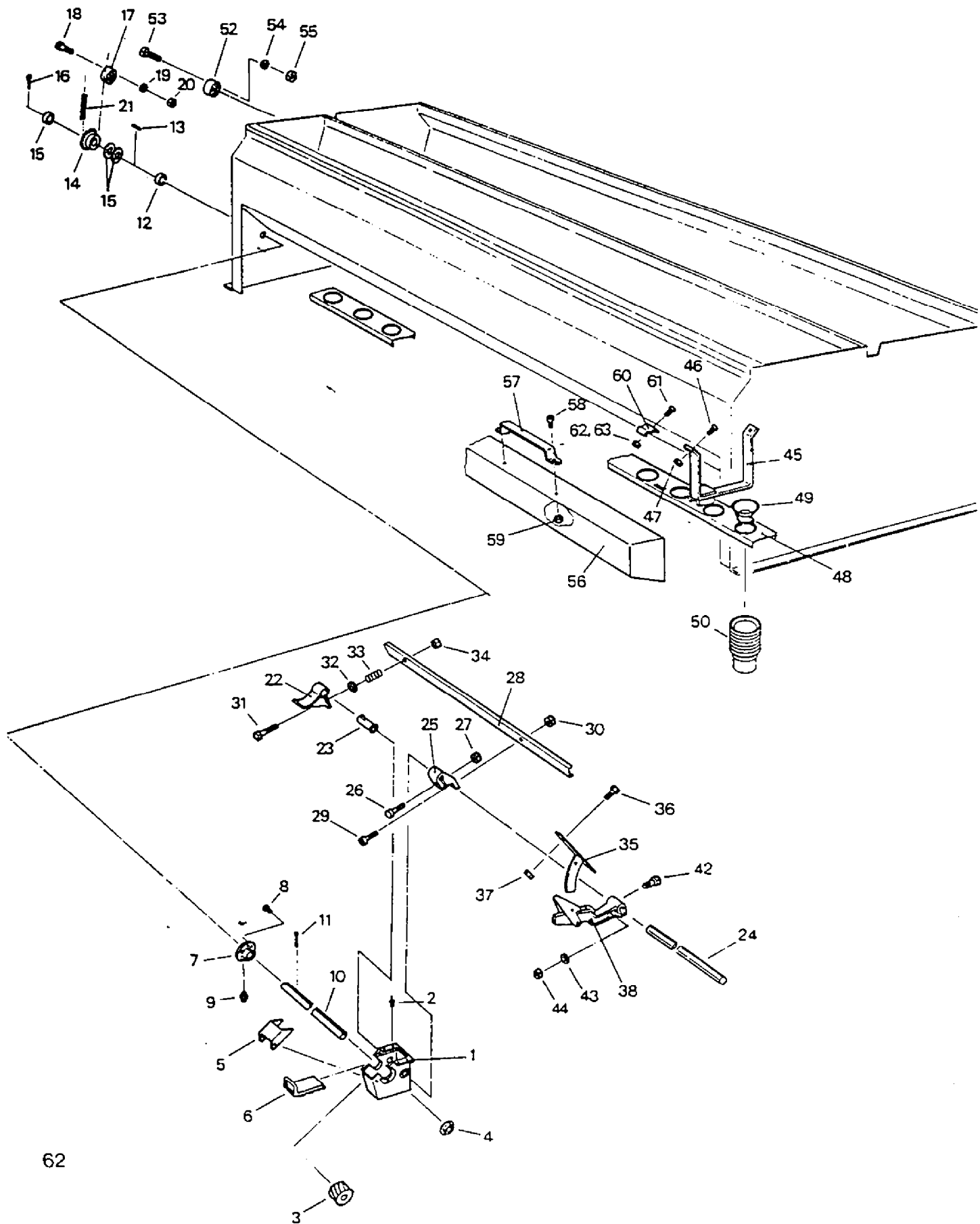


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	HOPPER SEED UNIT	Qty/unit		
			2,5	3,0	4,0
1	41239	Lid	1		
1	41229	Lid		1	
x	41202	Cover plog	Vienola 44041MC		
2	32621	Guard	3	3	
3	41606	Guard	1	1	
3	41606	Rivet	3,2x8		
4	31946	Gas spring, Suspa	2	2	
x	41611	Head for gas spring	A2/B2		
x	35914	Wire cable	2	2	
5	57537	Screw, locking	M 8x25		
6	30969	Nut, hex	M 8		
7	10784	Washer	M 8		
8	57550	Nut, lock	M 8		
9	53410	Screw, hex	M 8x35		
10	41603	Bush	2	2	
11	30969	Nut, hex	M 8		
12	57550	Nut, lock	M 8		
13	13239	Puller	3	3	
14	95303	Rivet	4.8x16		
14	95303	Rivet	12	12	
16	31287	Cone	19	23	31
17	41927	Guard	1	1	
17	42703	Guard			1
18	31947	Tap	3	3	3
19	10784	Washer	M 8		
20	57535	Screw, hex	M 8x16		
21	40150	Linch pin	D 9		
22	32261	Plate	3	3	3
22	32261	Plate	1	1	1
23	30951	Screw	M 10x16		
24	10607	Washer	M 10		
25	10760	Nut, hex	M 10		
26	32260	Cover plug	4	4	4
27	31604	Cover plug	1	1	1
27	31604	Cover plug	DBI No42		
27	31604	Cover plug	DBI No38		
28	35231	Cover plug	DBI No10		
28	35231	Cover plug	1	1	1

Items marked with x not shown.

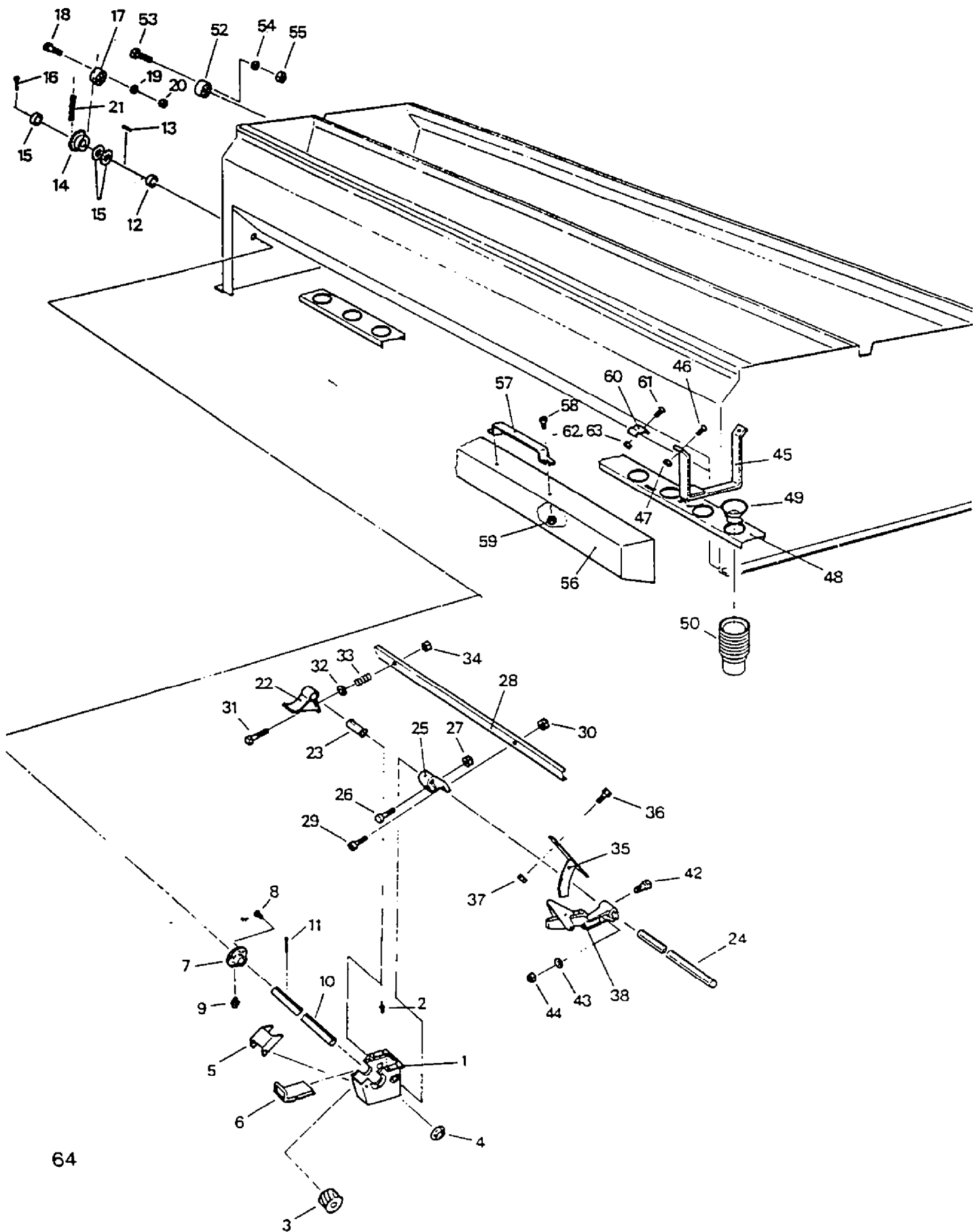


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	HOPPER SEED UNIT	Qty/unit			
			2,5	3,0	4,0	
1	31282	Feed unit	20	24	32	
2	31213	Rivet	3,2x10	80	96	128
3	31245	Feed roller		20	24	32
4	31286	Bearing	40	48	64	
5	31285	Lid	20	24	32	
6	31284	Feed unit shutter	20	24	32	
7	20621	Bearing	1	1	1	
8	30948	Screw	M 8x16	3	3	3
9	30263	Lubricating nipple		M 6	1	1
10	32221	Shaft	1			
10	41231	Shaft		1		
10	38214	Shaft			1	
x	10933	Washer	20,5x35x0,75	1	1	1
11	10459	Cotter pin		5x32	1	1
12	32262	Ring	25/21-20	1	1	1
13		Key	6x6x30	1	1	1
14	30238	Sprocket	15 T, t=12,7	1	1	1
15	52424	Washer	20,5x30x2	3	3	3
16	10459	Cotter pin	5x32	1	1	1
17	31261	Chain tightener	L=28	1	1	1
x	31263	Chain tightener	L=60	1	1	1
18	30956	Screw, hex	M 10x60	1	1	1
19	10607	Washer	M 10	1	1	1
20	10760	Nut, hex	M 10	1	1	1
21		Roller chain	1/2x5/16-106 links	1	1	1
22	31283	Bottom flaps		20	24	32
23	31668	Bearing		20	24	32
24	32207	Axle		1		
24	41232	Axle			1	
24	31215	Axle				2
25	31248	Bracket		6	7	10
26	66134	Screw, hex	M 8x40	6	7	10
27	30969	Nut, hex	M 8	6	7	10
28	32208	Adjusting ledge		1		
28	41228	Adjusting ledge			1	
28	32235	Adjusting ledge				2
29	30970	Screw	M 8x20	6	7	10
30	30969	Nut, hex	M 8	6	7	10
31	32447	Screw, hex	M 6x50	20	24	32
32	53503	Washer	M 6	20	24	32
33	31616	Break spring		20	24	32
34	30270	Nut, hex	M 6	20	24	32
35	32209	Adjusting piece		1	1	2
36	30255	Screw	M 6x12	2	2	4
37	30262	Nut, hex	M 6	2	2	4
x	53503	Washer	M 6	2	2	4
38	320253	Adjusting lever, assy		1	1	2

Items marked with x not shown.

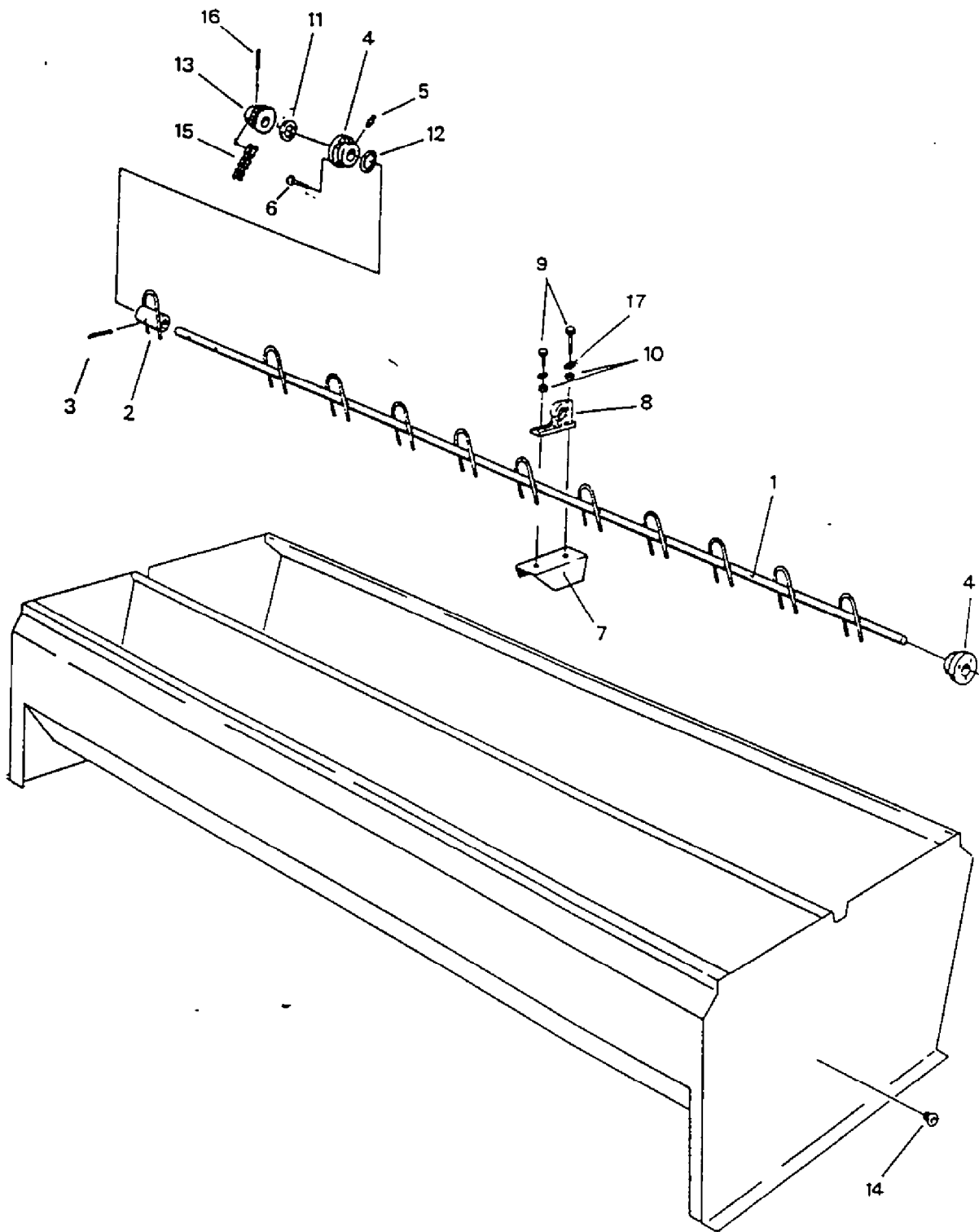


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	HOPPER SEED UNIT		Qty/unit		
				2,5	3,0	4,0
42	31693	Screw, hex	M 8x45	1	1	2
43	20554	Washer	10x30x2	1	1	2
44	30969	Nut, hex	M 8	1	1	2
45	32227	Bracket		4	4	4
46	57535	Screw, hex	M 8x16	8	8	8
47	30969	Nut, hex	M 8	8	8	8
x	32249	Plate, locking		4	4	4
x	10784	Washer	M 8	8	8	8
48	32264	List		2		
48	41242	List			2	
48	42201	List				2
49	32263	Funnel		20	24	32
50	41240	Feed tube		20	24	32
x	41241	Feed tube/inner		20	24	32
52	31261	Chain tightener	L=28	1	1	1
53	57153	Screw, hex	M 10x50	1	1	1
54	10607	Washer	M 10	1	1	1
55	10760	Nut, hex	M 10	1	1	1
56	32212	Calibration tray		2		
56	41230	Calibration tray			2	
56	38228	Calibration tray				2
57	13239	Puller		2	2	2
58	30528	Countersunk screw	M 5x16	8	8	8
59	10395	Nut, hex	M 5	8	8	8
60	32232	Plate		4	4	4
61	57535	Screw, hex	M 8x16	4	4	4
62	30969	Nut, hex	M 8	4	4	4
63	10784	Washer	M 8	4	4	4
Accessories:						
x	41646	Screen (1822)		2		
x	41645	Screen (1821)			2	
x	41639	Screen (1823)				2
x	42205	Support		1	1	1
x	41648	Bracket		1	1	1
x	163514	Screw, hex	M8x20	1	1	1
x	163517	Washer	M8	1	1	1
x	30969	Nut, hex	M8	1	1	1

Items marked with x not shown.

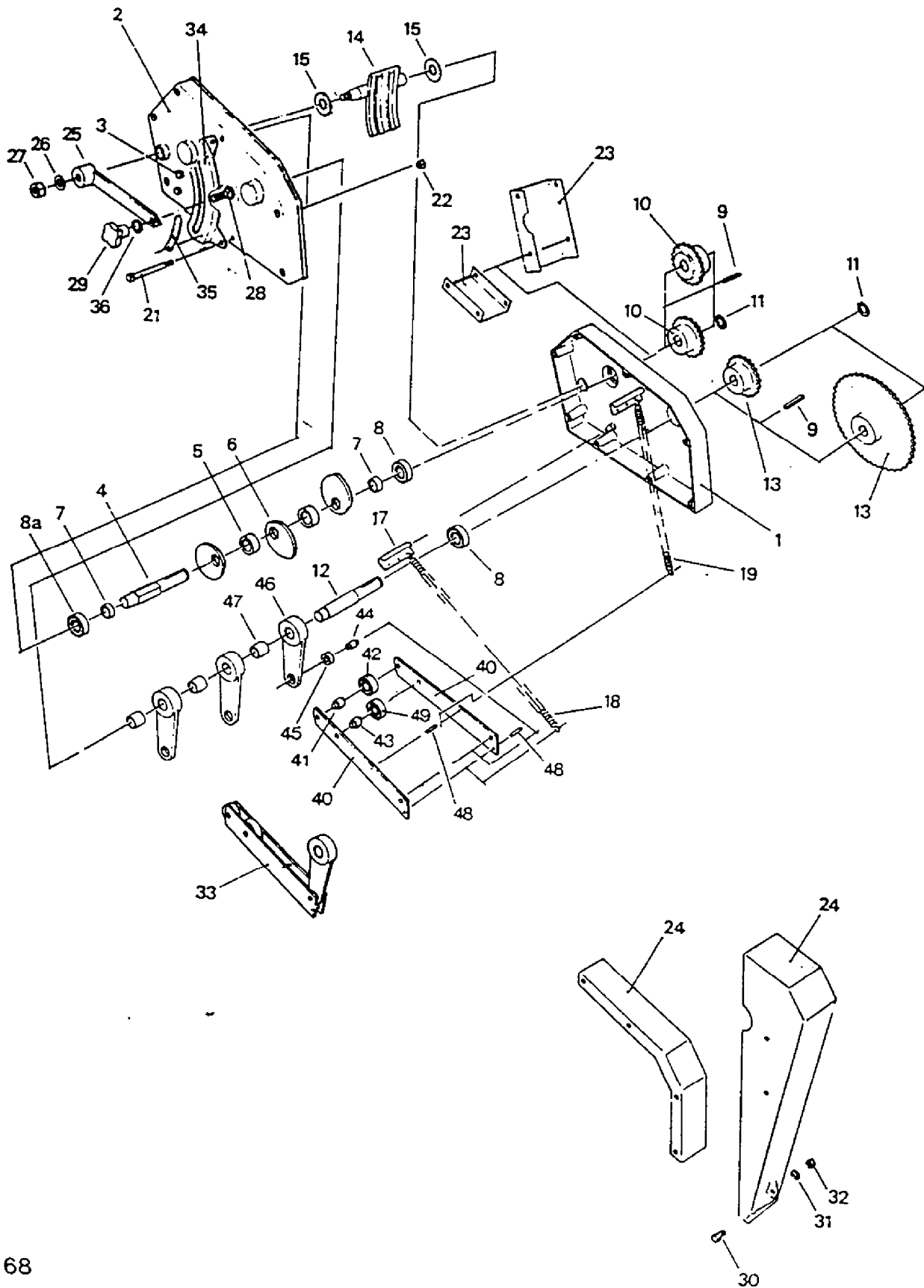


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	AGITATOR SHAFT	Qty/unit		
			2,5	3,0	4,0
1	31884	Shaft	1		
1	42808	Shaft		1	
1	38500	Shaft			1
2	31881	Link	1	1	1
3	20757	Cotter pin			
		5x35	2	2	2
4	29621	Bearing	2	2	2
5	30263	Lubricating nipple			
		M 6	2	2	2
6	30948	Screw			
		M 8x16	6	6	6
7	33540	Plate	1	1	1
8	31882	Bearing	1	1	1
9	31291	Screw, hex			
		M 6x60	2	2	2
10	30261	Nut, locking			
		M 6	2	2	2
11	31891	Ring	1	1	1
12	52424	Washer			
		20,5x30x2	2	2	2
13	31890	Double sprocket			
		15/15 T, t=12,7	1	1	1
14	35237	Cover plug			
		DBI no 15	1	1	1
15		Roller chain			
		t=1/2x5/16-34 links	1	1	1
16	12244	Spring pin			
		5x40	1	1	1
17	53503	Washer			
		M 6	2	2	2
x	31261	Chain tightener	2	2	2
x	42821	Screw, locking			
		M 10x70	1	1	1
x	10153	Spring washer			
		M 10	1	1	1
x	10760	Nut, hex			
		M 10	1	1	1
x	21305	Bush	1	1	1
x	11927	Spring pin			
		5x50	1	1	1

Items marked with x not shown.

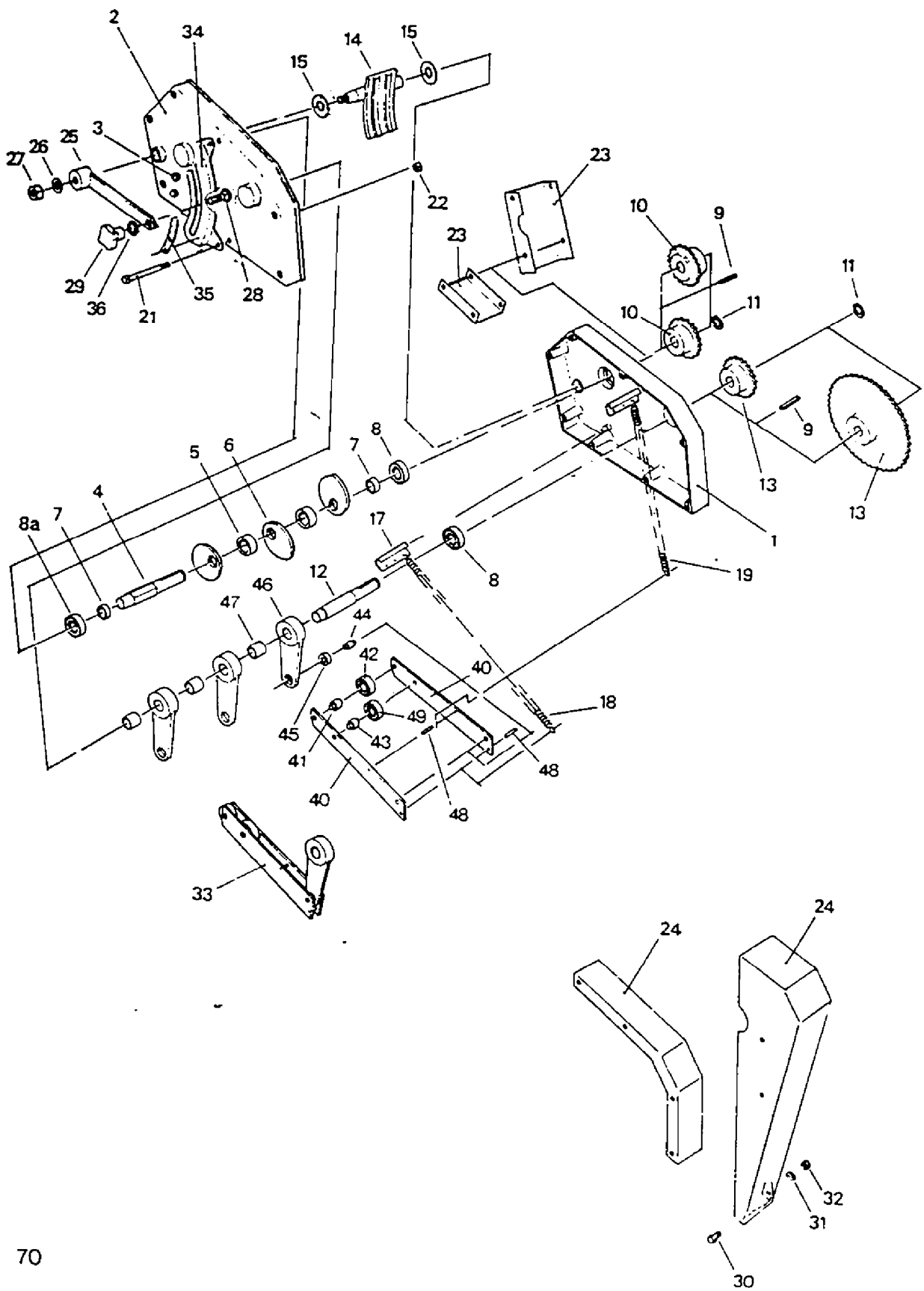


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-21151
 0G-21351
 1550-6081

Item	Part.n:o	ROTATION SPEED CONVERTER	Qty/unit		
			2,5	3,0	4,0
	310765	ROTATION SPEED CONVERTER, assy			
1	31765	Box	2	2	2
2	31764	Lid	2	2	2
3	31782	Plug R 1/4	2	2	2
4	31707	Axle	2	2	2
5	31730	Bush	4	4	4
6	31706	Plate	6	6	6
7	31738	Bush	4	4	4
8	55851	Ball bearing 6004-2RS	4	4	4
8a	31784	Ball bearing 6004	4	4	4
9		Key 6x6x36	4	4	4
10	20524	Sprocket, fertilizer unit 20 T, t=12,7	1	1	1
10	30237	Sprocket, seed unit 30 T, t=12,7	1	1	1
11	10838	Circlip, A 20x1,2	4	4	4
12	31708	Axle	2	2	2
13	20524	Sprocket, seed unit 20 T, t=12,7	1	1	
13	42706	Sprocket 20 T, t=12,7			1
13	40258	Sprocket, fertilizer unit 52 T, t=12,7	1	1	
13	42958	Sprocket, fertilizer unit 52 T, t=12,7			1
14	31701	Lever	2	2	2
15	20618	Washer 22x38x1,5	4	4	4
x	31810	O-ring OR 15,3x24	2	2	2
17	31742	Clamping plate	4	4	4
18	31740	Tension spring 12-1,2-120-83	6	6	6
19	31741	Tension spring 12-1,2-70-41	6	6	6
21	31464	Screw, hex M 8x80	12	12	12
x	60339	Screw, hex M 8x90	4	4	4
22	30969	Nut, hex M 8	16	16	16
23	31733	Plate/seed	1	1	1
23	40710	Plate/fertilizer	1	1	
23	42701	Plate/fertilizer			1
24	31714	Plate/seed	1	1	1
24	35700	Plate/fertilizer	1	1	
24	42702	Plate/fertilizer			1
25	32703	Indicating hand	2	2	2
26	10462	Washer M 12	2	2	2
27	30968	Nut, hex M 12	2	2	2
28	57229	Screw, locking M 12x30	2	2	2
29	31745	Knob	2	2	2
30	57535	Screw, hex M 8x16	10	10	10
31	10784	Washer M 8	10	10	10
32	30969	Nut, hex M 8	10	10	10
33	310718	Adjusting lever	6	6	6

Items marked with x not shown.

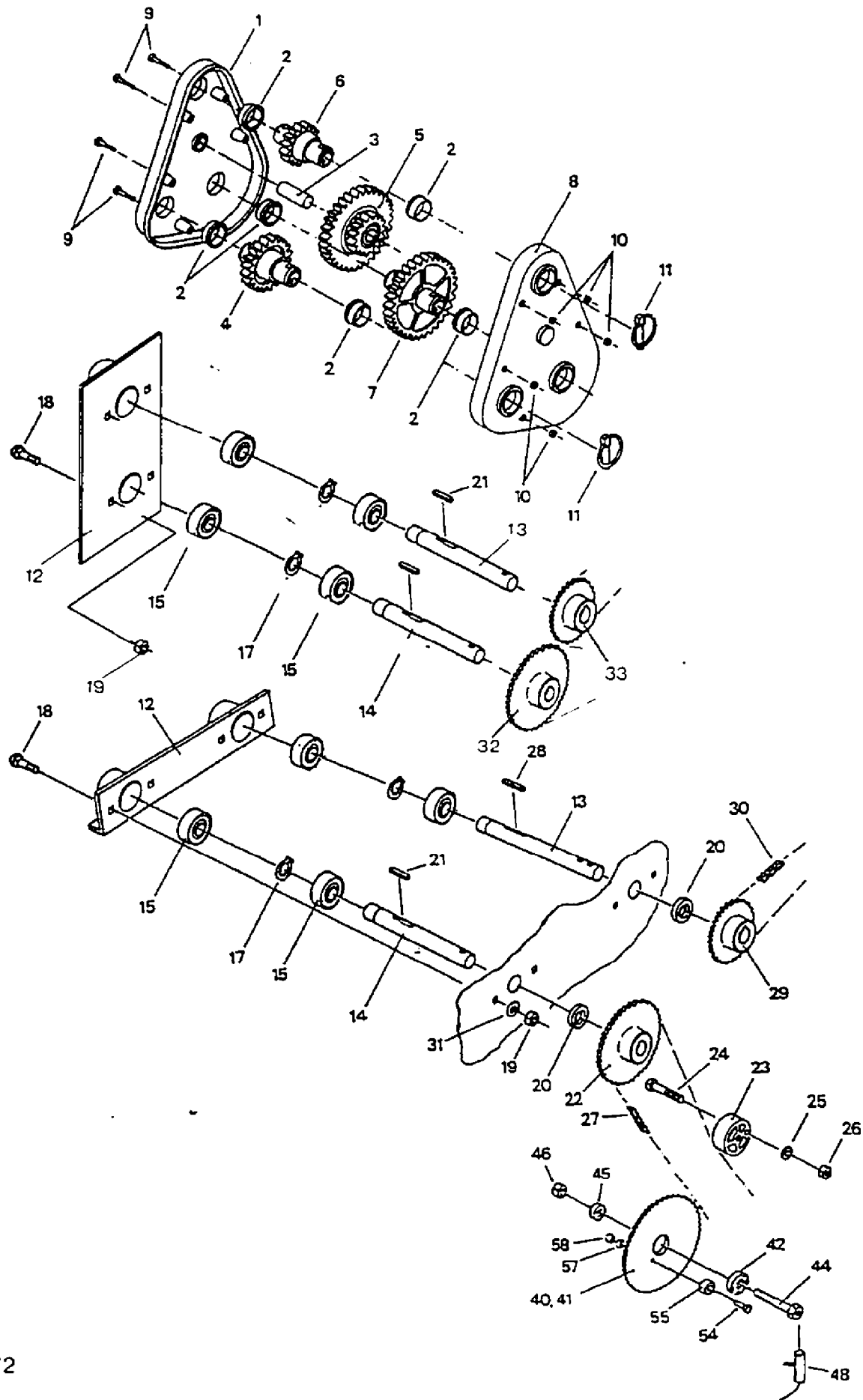


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-21151
 0G-21351
 1550-6081

Item	Part.n:o	ROTATION SPEED CONVERTER	Qty/unit		
			2,5	3,0	4,0
34	31751	Adjusting plate	2	2	2
35	31703	Measuring scale	2	2	2
36	30887	Washer	2	2	2
		M 16			
	310718	ADJUSTING LEVER, assy			
40	31777	Plate	2	2	2
41	31778	Axle	1	1	1
42	31779	Ball bearing	1	1	1
43	31780	Axle	1	1	1
44	31781	Axle	1	1	1
45	31749	Ball bearing	1	1	1
46	31704	Bearing	1	1	1
47	31731	Connector	1	1	1
48	61403	Spring pin	2	2	2
49	31769	Ball bearing	1	1	1
		6300			
		608			
		F6 25			
		5-18			
		16005			

Items marked with x not shown.

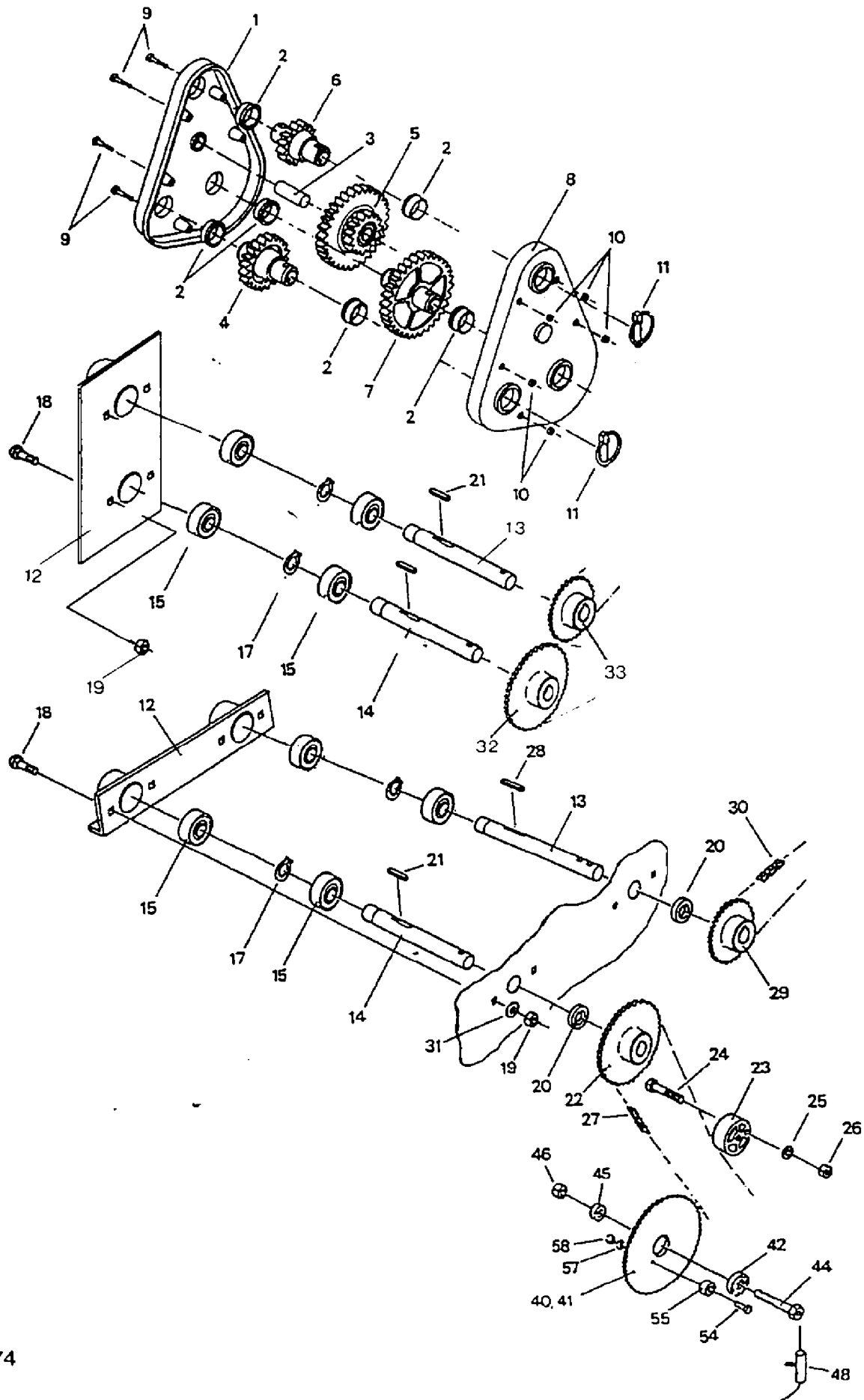


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	CASSETTE AND INTERMEDIATE AXLE UNIT	Qty/unit		
			2,5	3,0	4,0
	300328	CASSETTE, assy	1	1	1
1	30328	Cassette housing	1	1	1
2	30335	Bushing/bearing	6	6	6
3	30334	Axle	1	1	1
4	30332	Gear 20 T	1	1	1
5	30330	Gear 32/15 T	1	1	1
6	30333	Gear 15 T	1	1	1
7	30331	Gear 32 T	1	1	1
8	30329	Lid	1	1	1
9	30343	Screw, hex M 6x40	5	5	5
10	30262	Nut, hex M 6	5	5	5
11	40150	Linch pin D 9	2	2	2
	310717	BEARING, hopper seed, assy	1	1	1
12	31717	Bearing	1	1	1
13	31734	Axle	1	1	1
14	31710	Axle	1	1	1
15	63223	Ball bearing 6204-2RS	4	4	4
17	10838	Circlip A 20x1,2	2	2	2
18	57538	Screw, locking M 10x20	4	4	4
x	10153	Washer, spring M10	4	4	4
19	10760	Nut, hex M 10	4	4	4
	420955	BEARING, hopper fertilizer, assy			1
12	42955	Bearing			1
13	42956	Axle			1
14	42957	Axle			1
15	63223	Ball bearing 6204-2RS			4
17	10838	Circlip A 20x1,2			2
18	57538	Screw, locking M 10x20			3
x	10153	Spring washer M10			3
19	10760	Nut, hex M 10			3
20	12217	Ring	2	2	2
21		Key 6x6x30	1	1	1
22	30237	Sprocket 30 T, t=12,7	1	1	1
23	31261	Chain tightener L=28	1	1	1
24	57153	Screw, hex M 10x50	1	1	1
25	10607	Washer M 10	1	1	1
26	10760	Nut, hex M 10	1	1	1
27		Roller chain 1/2x5/16-145 links	1	1	1
28		Key 6x6x30	1	1	1
29	31736	Sprocket 24 T, t=12,7	1	1	1
30		Roller chain 1/2x5/16-151 links	1	1	1
31	10153	-Spring washer M 10	4	4	4
32	42960	Sprocket 18 T, t=15,875			1
33	42959	Sprocket 36 T, t=12,7			1

Items marked with x not shown.

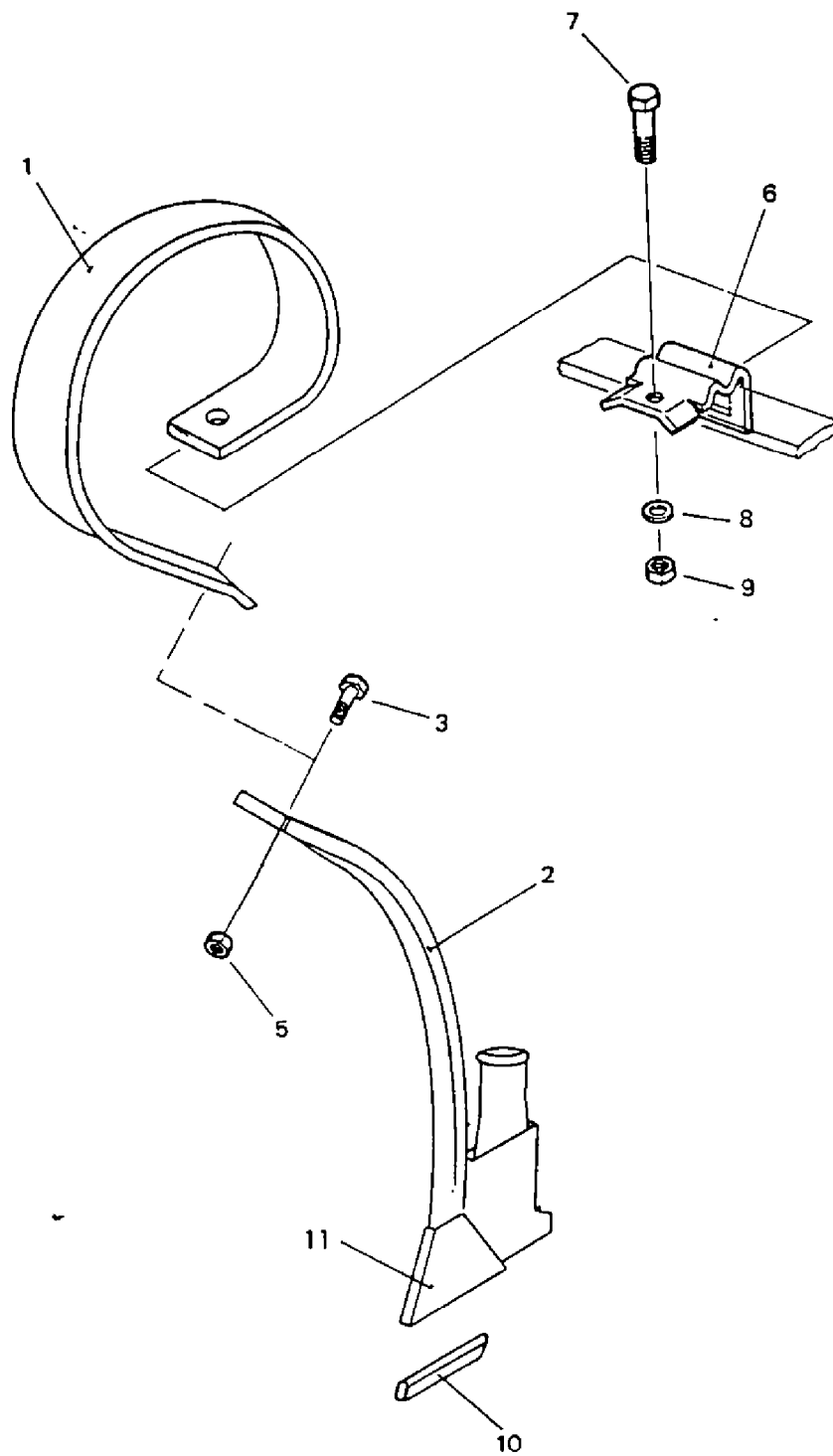


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-21151
 0G-21351
 1550-6081

Item	Part.n:o	AREAL METER	Qty/unit		
			2,5	3,0	4,0
	310716	SPROCKET, assy			
41	31716	Sprocket			1
42	31729	Ball bearing	35 T, t=12,7		1
			6201-2RS		1
	420705	SPROCKET, assy			1
41	42705	Sprocket	29 T, t=12,7		1
42	31729	Ball bearing	6201-2RS		1
	420704	SPROCKET, assy			1
41	42704	Sprocket	21 T, t=12,7		1
42	31729	Ball bearing	6201-2RS		1
44	32705	Bolt		1	1
45	31720	Bush		1	1
x	10462	Washer	M 12	1	1
46	30968	Nut, hex	M 12	1	1
48	31788	Electric wire		1	1
x	32252	Pull remover		1	1
54	31799	Screw	M 4x20	1	1
55	31770	Magnet		1	1
57	30753	Washer	M 4	1	1
58	53282	Nut, hex	M 4	1	1
x	31761	Adhesive wire clap		6	6
x	31762	Wire bundle tie	L=80	6	6
	310787	AREAMETER H 7 EL 12 V OMRON		1	1
x	31797	Electric wire (2m) / Lely		1	1

Items marked with x not shown.

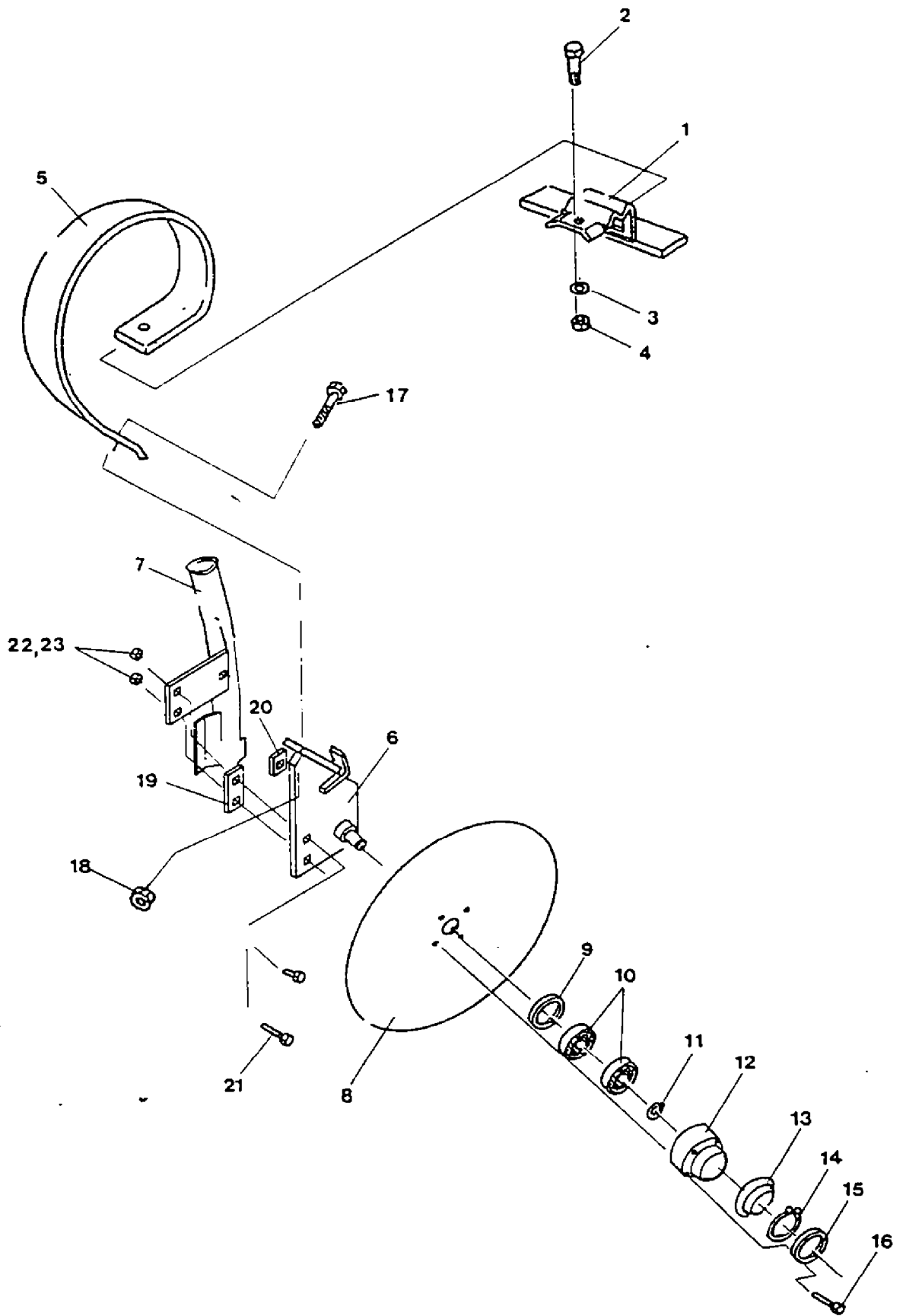


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	FERTILIZER COULTERS	Qty/unit		
			2,5	3,0	4,0
	350424	FERTILIZER COULTER, FRONT, assy	5	6	8
	350423	FERTILIZER COULTER, REAR, assy	5	6	8
1	35422	Spring tine	10	12	16
2	35424	Lower part, front	5	6	8
2	35423	Lower part, rear	5	6	8
3	13429	Screw, hex	10	12	16
5	10760	Nut, hex	20	24	32
		M 10x40 10.9			
		M 10			
6	30998	Bracket	10	12	16
7	31199	Screw, hex	10	12	16
		M 12x50			
8	10462	Washer	10	12	16
		M 12			
9	56448	Nut, lock	10	12	16
		M 12			
10	35431	Tip (replacement)	10	12	16
11	35427	Wearing piece	10	12	16

Items marked with x not shown.

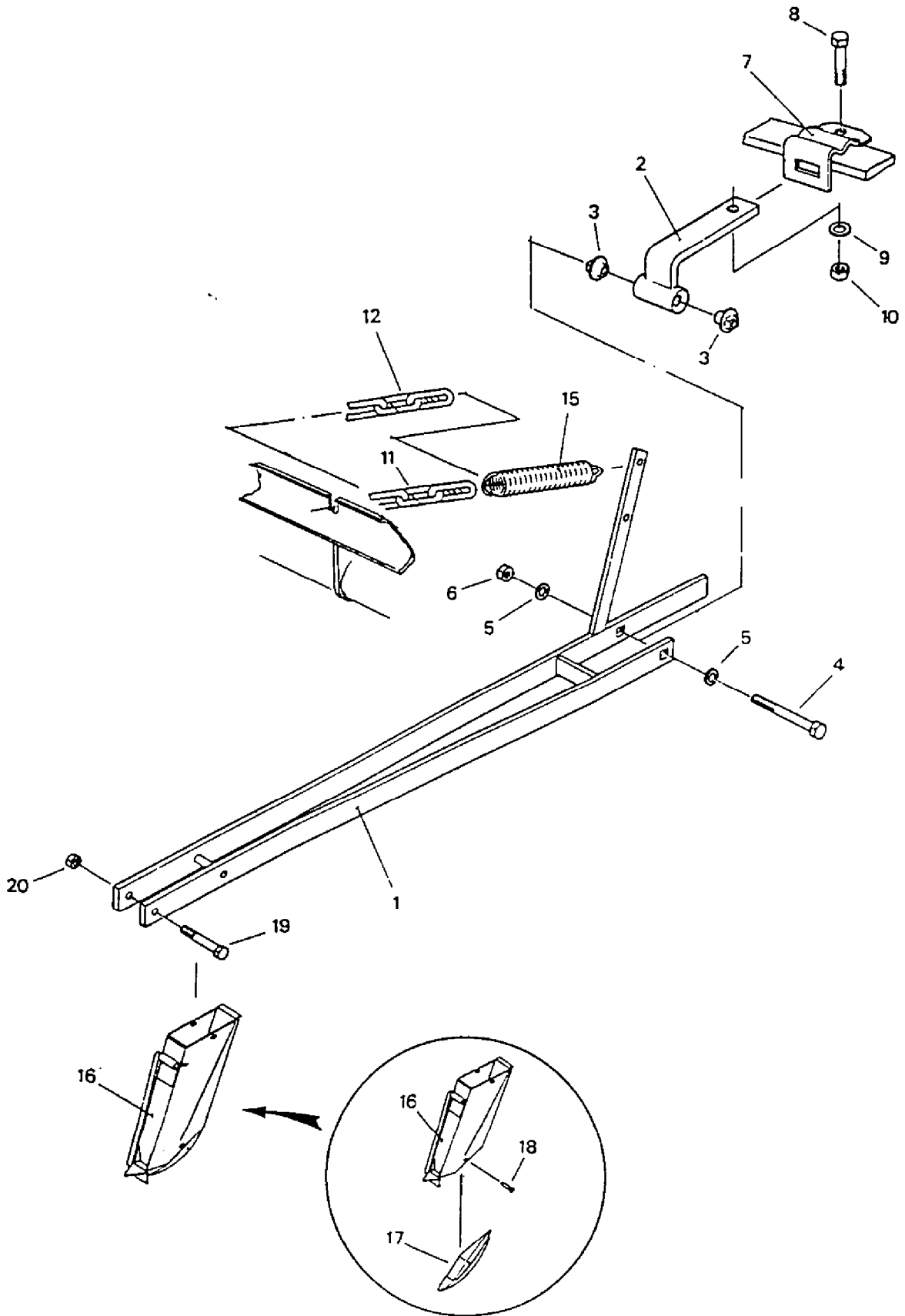


JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	FERTILIZER DISC COULTERS	Qty/unit			
			2,5	3,0	4,0	
1	30998	Bracket	10	12	16	
2	31199	Screw, hex	M 12x50	10	12	16
3	10462	Washer	M 12	10	12	16
4	56448	Nut, locking	M 12	10	12	16
5	35422	Spring coultter		10	12	16
6	32428	Bracket, front		5	6	8
x	32477	Bracket, rear		5	6	8
7	32480	Coultter, front		5	6	8
x	32479	Coultter, rear		5	6	8
8	38409	Disc		10	12	16
9	52624	Seal	Z 205	10	12	16
10	38410	Ball bearing	6304 RS	20	24	32
11	10719	Circlip	A20x1,75	10	12	16
12	38407	Housing/bearing		10	12	16
13	56627	Guard		10	12	16
14	52427	Circlip	J52x2	10	12	16
15	38408	Ring		10	12	16
16	38411	Screw	M 8x25	40	48	64
17	13429	Screw, hex	M 10x40	10	12	16
18	10760	Nut, hex	M 10	10	12	16
19	32483	Plate		10	12	16
20	32484	Plate		10	12	16
21	58835	Screw, locking	M 10x40	30	36	48
22	10607	Washer	M 10	30	36	48
23	57379	Nut, locking	M 10	30	36	48

Items marked with x not shown.

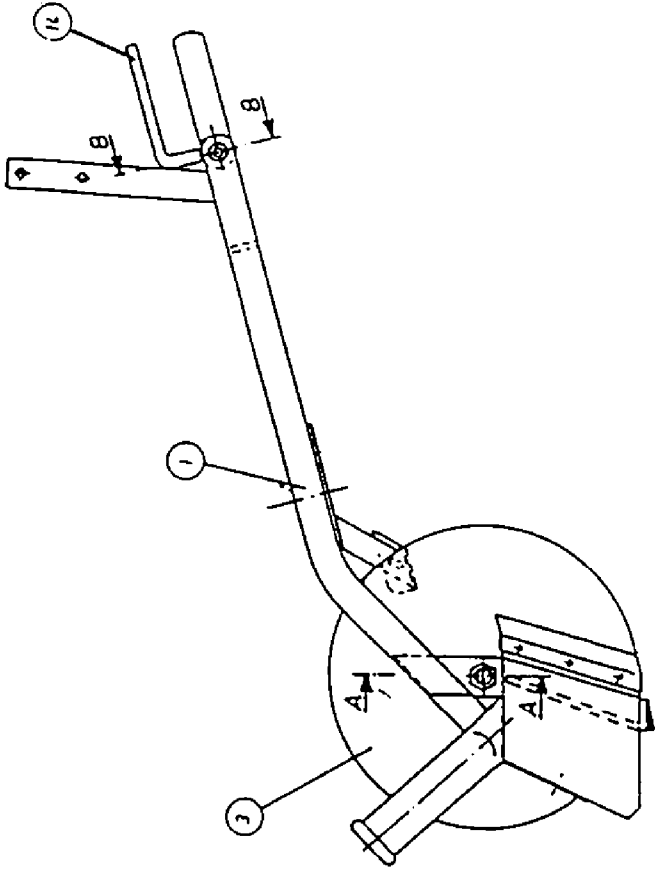


JUKO-2500
 JUKO-3000
 JUKO-4000

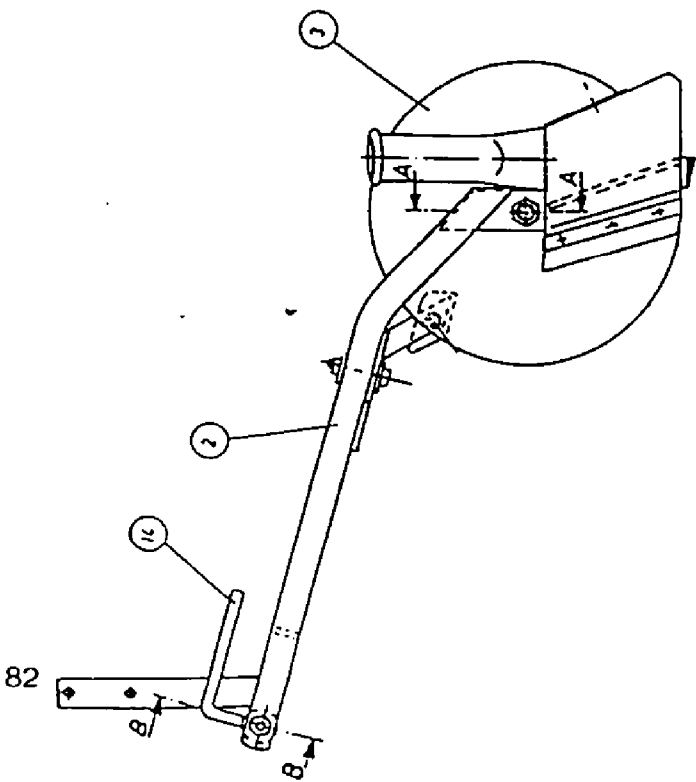
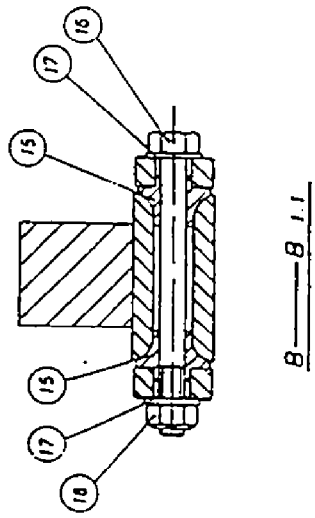
from serial number 1F-21151
 0G-21351
 1550-6081

Item	Part.n:o	SEED COULTERS	Qty/unit			
			2,5	3,0	4,0	
1	31489	Arm, front coultter	8	10	14	
x	40496	Arm, front right	2	2	2	
1	31490	Arm, rear coultter	10	12	16	
2	32401	Coultter bar	20	24	32	
3	30474	Bearing	40	48	64	
4	53362	Screw, hex	M 10x100	20	24	32
5	10607	Washer	M 10	40	48	64
6	57379	Nut, lock	M 10	20	24	32
7	31495	Bracket		20	24	32
8	31199	Screw, hex	M 12x50	20	24	32
9	10462	Washer	M 12	20	24	32
10	56448	Nut, lock	M 12	20	24	32
11	32464	Chain	LH 4x16x6-7	10	12	16
12	32465	Chain	LH 4x16x6-33 I	10	12	16
15	31499	Tension spring		20	24	32
16	35430	SUFFOLK COULTER, assy				
17	31493	Tip		20	24	32
18	30429	Countersunk rivet	6x19	20	24	32
x	41407	TINE COULTER, assy				
x	31494	Tip		20	24	32
x	30429	Countersunk rivet	6x9	20	24	32
19	30252	Screw, hex	M 8x60	20	24	32
20	57550	Nut, lock	M 8	20	24	32
x	32451	Cover, front		10	12	16
x	32466	Cover, rear		10	12	16

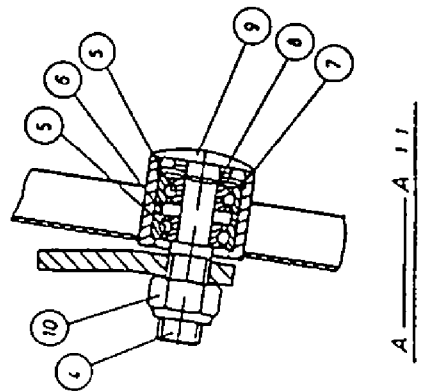
Items marked with x not shown



front.



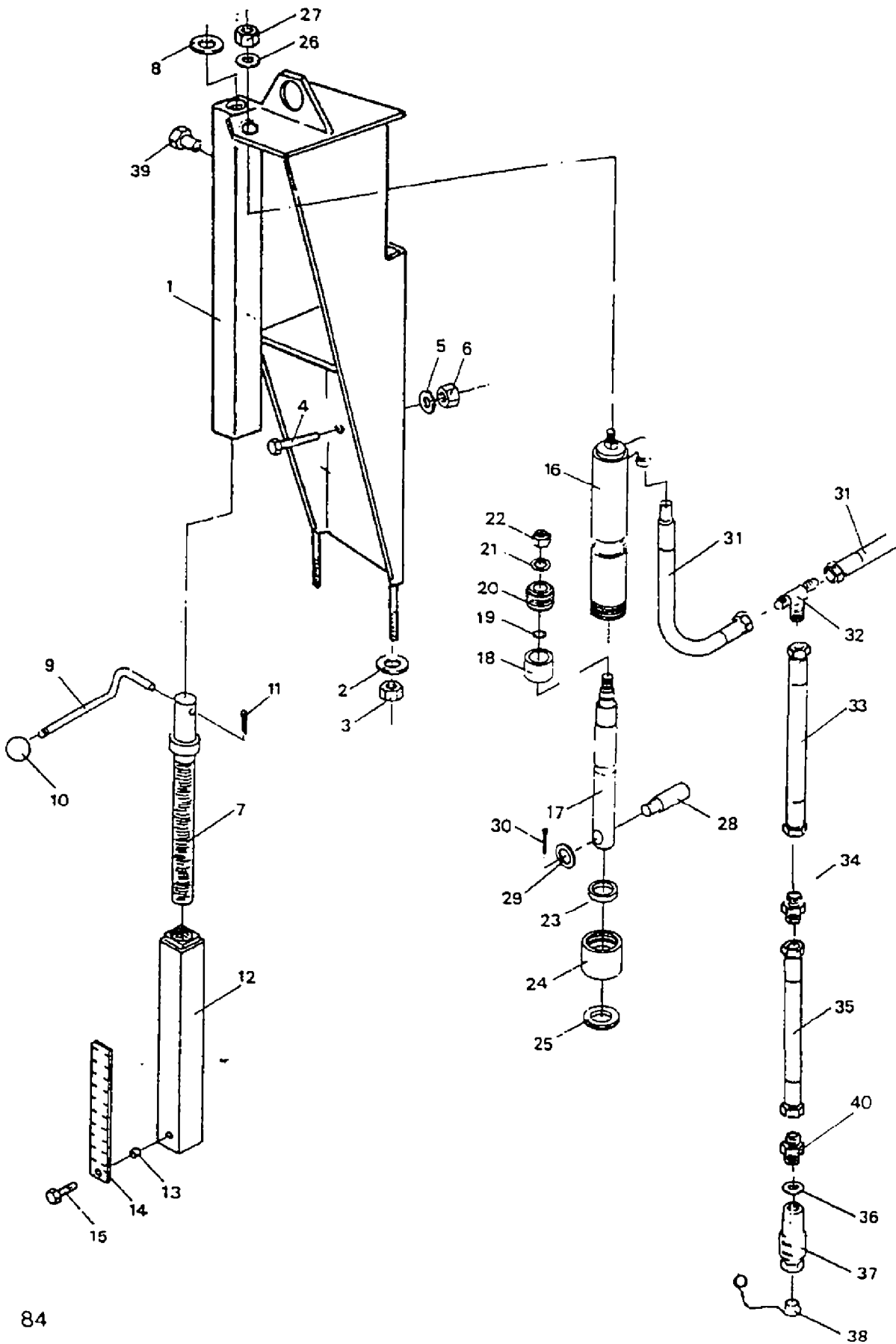
rear



JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	WEDGE/DISC TYPE COULTER	Qty/unit		
			2,5	3,0	4,0
	350432	WEDGE/DISC TYPE COULTER, assy	10	12	16
1	35432	Disc coultter, front	1	1	1
2	35433	Disc coultter, rear	1	1	1
3	35434	Wedge/disc	2	2	2
4	35435	Axle	2	2	2
5	31729	Ball bearing	2	2	2
6	35441	Ring	4	4	4
7	35436	Circlip	2	2	2
8	57374	Circlip	2	2	2
9	35437	Plug	2	2	2
10	30124	Nut, hex	2	2	2
11	40151	Washer, spring	2	2	2
14	32401	Arm/coultter	2	2	2
15	30474	Bearing	4	4	4
16	53362	Screw, hex	2	2	2
17	10607	Washer	4	4	4
18	57379	Nut, locking	2	2	2



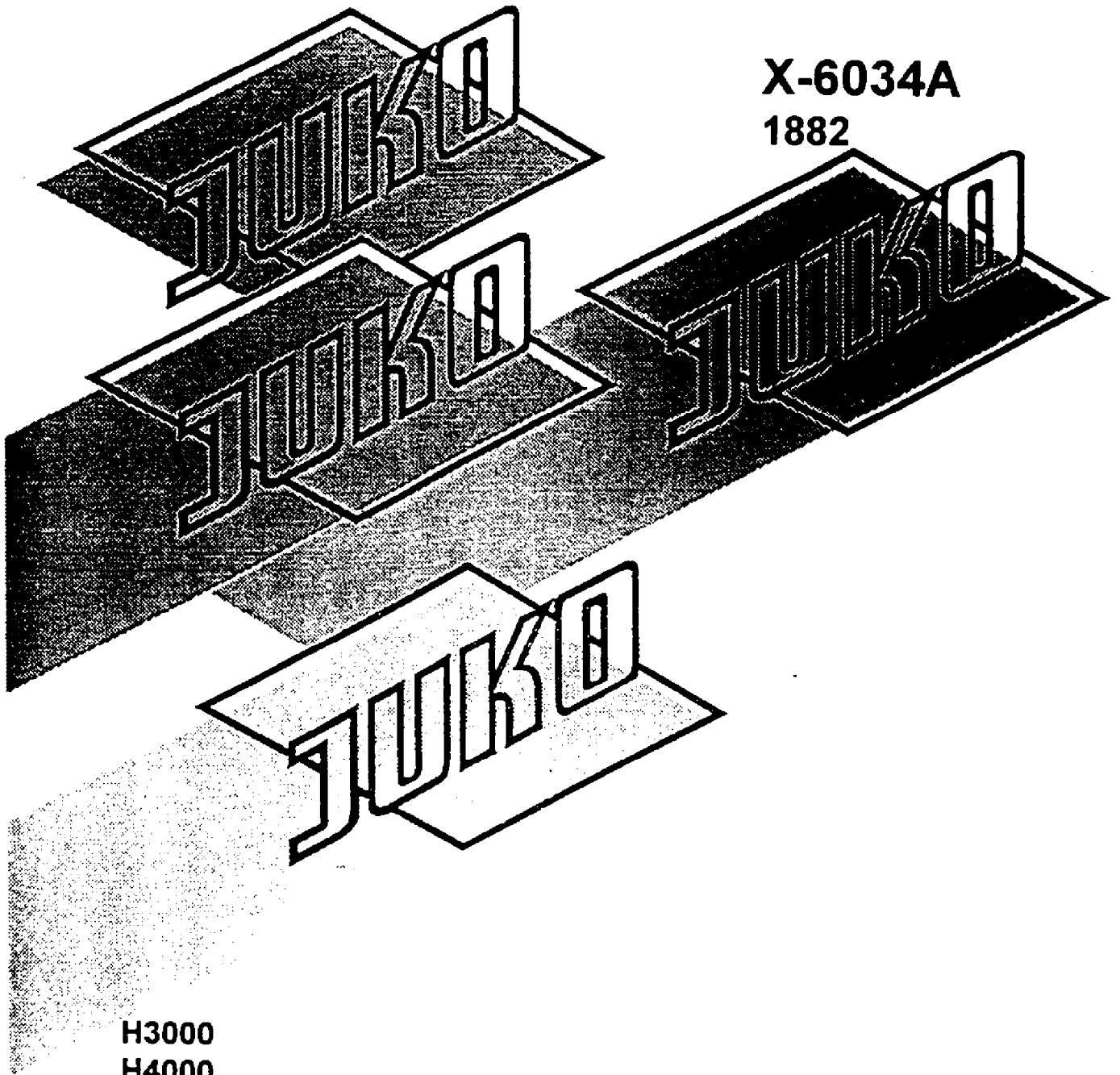
JUKO-2500
 JUKO-3000
 JUKO-4000

from serial number 1F-11001
 0G-11201
 1550-6081

Item	Part.n:o	WEDGE/DISC TYPE COULTER	Qty/unit		
			2,5	3,0	4,0
1	41924	Bracket, right	1	1	1
1	41925	Bracket, left	1	1	1
2	10462	Washer	4	4	4
3	56448	Nut, lock	4	4	4
4	30952	Screw, hex	4	4	4
5	10462	Washer	4	4	4
6	56448	Nut, lock	4	4	4
7	40879	Adjusting screw	2	2	2
8	25110	Washer	2	2	2
	620201	CRANK, assy	2	2	2
9	30558	Crank	1	1	1
10	20726	Knob	1	1	1
11	10463	Cotter pin	2	2	2
x	10607	Washer	2	2	2
12	41814	Tube	2	2	2
13	30932	Bush	2	2	2
14	42176	Scale plate	2	2	2
15	30948	Screw	2	2	2
	400888	LIFT CYLINDER, assy	2	2	2
16	40888	Cylinder tube	1	1	1
17	40865	Piston arm	1	1	1
18	40866	Ring	1	1	1
19	32802	O-ring	1	1	1
x	41843	Ring	1	1	1
20	590619	Piston	1	1	1
21	53942	Washer	1	1	1
22	53463	Nut, lock	1	1	1
23	35842	Ring	1	1	1
24	35843	Nut	1	1	1
25	58612	Dispenser Merkel	1	1	1
26	30887	Washer	2	2	2
27	53190	Nut, lock	2	2	2
28	40118	Axle	4	4	4
29	56625	Washer	4	4	4
30	10624	Cotter pin	2	2	2
31	42844	Pressure hose	2		
31	42842	Pressure hose		2	
31	42843	Pressure hose			2
x	30567	Wire buncle tie	2	2	2
32	41833	T-link	1	1	1
33	42845	Pressure hose	1	1	1
34	95832	Adaptor, female/female	1	1	1
35	42846	Pressure hose	1	1	1
36	52360	Seal	1	1	1
37	30844	Rapid connector	1	1	1
38	58656	Guard	1	1	1
39	40661	Plug	2	2	2
40	57648	Adaptor	1	1	1

Items marked with x not shown.





X-6034A
1882

H3000

H4000

KULJETUSLAITTEISTO
TRANSPORTANORDNING
TRANSPORT EQUIPMENT

11.01.96

För att underlätta transporten på smala vägar och allmänna landsvägar kan till den bogserade kombin erhållas en transportanordning bestående av två transporthjul och en bogserkrok.

Montering: (Bilder 1 och 2)

Transportanordningens fäststycken fästes i maskinens frambalk och stigbrädans högra gavel. Transporthjulen fästes med hjälp av axeltapparna 1 och 2 i fästen. Tapparna låses med ringsprintar. Dragögglan fästes i vänstra bärhjulets fästbultar med M12x80 bultar.

Koppling i transportläge:

- a) Då dragbommen är kopplad lyftes maskinen upp.
- b) Det bakre transporthjulet fälles ned och låses med axeltapp (Bild 2).
- c) Det främre transporthjulet fälles ned. Om axeltappen inte går på sin plats, måste bomens vantskruv skruvas så mycket, att transporthjulet kan låsas med axeltapp (Bild 1).
- d) Maskinen sänkes ned, bomen lösgöres och tryckslangen tas av traktorn.
- e) Transportanordningen monteras på traktorns lyftanordning.
- f) Traktorn flyttas framför det vänstra bärhjulet som är försett med en dragögglan. Bogserkroken kopplas till dragögglan och låses med fjädersprint (Bild 3).
- g) Vantskruven kopplas av maskinen och dragbommen lyftes och låses.

Bild 1.

Bild 2.

Bild 3.

Om traktorn har en hydraulventil som är oberoende av lyftanordning, kan man med denna sköta höjning och sänkning av maskinen samt bogsera maskinen med bogserkroken i dragbommen.

OBS! Vid användande av maskinens transportanordning, bör maskinen ej belastas med annan vikt än maskinens egen vikt och ev. extra utrustning. **MED FYLLEDA BEHÅLLARE BÖR MASKINEN EJ TRANSPORTERAS**, då såväl maskin som traktorns lyftanordning utsättes för synnerligen stora påfrestningar.

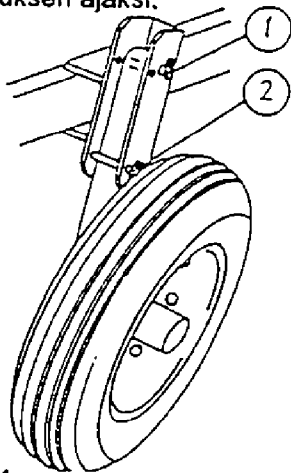
Kuljetuksen helpottamiseksi kapeilla tai yleisillä teillä on koneisiin ssatavissa lisävarusteena lisäpyörät sekä kuljetuslaitteisto. Lisäpyörät kiinnitetään kuvien mukaisesti ja kuljetuslaitteisto kiinnitetään traktorin nostolaitteisiin.

Asennus: (Kuvat 1 ja 2)

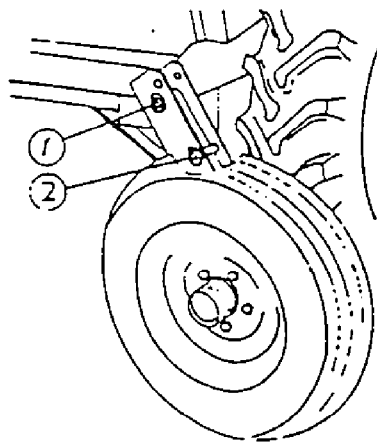
Kiinnitetään kuljetuslaitteen kiinnityskappaleet koneen etupalkkiin ja astintason oikeaan päättyyn. Lisäpyörät kiinnitetään kiinnityskappaleisiin akselitapeilla (1) ja (2). Tapit lukitaan rengassokalla. Vetosilmukka kiinnitetään vasemman kannatuspyörän kiinnitysruuveihin M12x80 ruuveilla.

Kone asennetaan maantiekuljetusta varten hinauskuntoon seuraavasti:

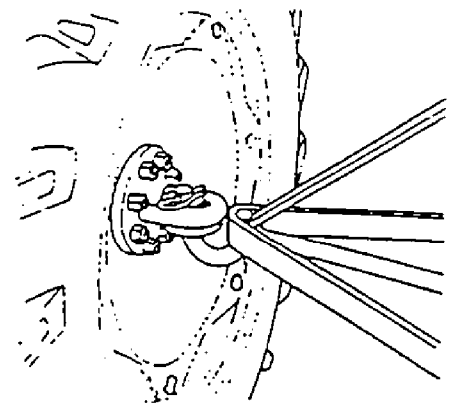
- a) Koneen ollessa kytkettynä traktorin hinauskoukkuun, nostetaan kone täysin ylös.
- b) Käännetään takamainen kuljetinpyörä alas ja lukitaan akselitapilla paikoilleen (Kuva 2).
- c) Käännetään etumainen kuljetinpyörä alas. Mikäli akselitappia ei saada paikoilleen, on puomin vanttiruuvista kierrettävä niin paljon, että kuljetinpyörä voidaan lukita akselitapilla (Kuva 1).
- d) Lasketaan kone ala-asentoon ja irrotetaan puomi koukusta ja paineletku traktorin ulosotosta.
- e) Kiinnitetään kuljetuslaitteisto traktorin nostolaitteisiin.
- f) Traktori siirretään vasemmanpuoleisen kannatinpyörän eteen ja kiinnitetään hinauslenkkiin ja lukitaan sokalla (Kuva 3).
- g) Irroitetaan vanttiruuvin koneen puoleinen pää ja nostetaan puomi pystyasentoon ja lukitaan kuljetuksen ajaksi.



Kuva 1.



Kuva 2.



Kuva 3.

Mikäli traktorissa on nostolaitteista riippumaton hydrauliventtiili, voidaan sen avulla hoitaa koneen nosto ja lasku sekä suorittaa hinaus vetokoukulla koneen puomista.

HUOM! Kuljetuslaitteistolla ajettaessa ei koneessa saa olla lisälaitteiden ja oman painon lisäksi muuta kuormaa.

SÄILIÖT ON AINA TYHJENNETTÄVÄ ENNEN KUIN KONE NOSTETAAN KULJETUSLAITTEISTON VARAAN.



For easy transportation of the drill on narrow roads transport wheels accompanied by a special towing hook are available for the drills.

Mounting: (Figures 1 and 2)

Fix the attachment brackets to the front beam and to left hand side of the foot board. Fix the transport wheels with knuckle pins (1) and (2) to the attachment brackets. Both knuckle pins are secured with cotter pins.

Attach the draw eye with M12x80 bolts to the fastening bolts of the left transport wheel.

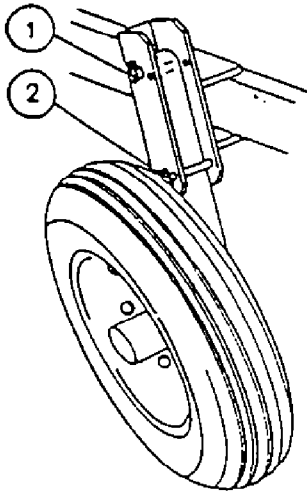


Fig. 1.

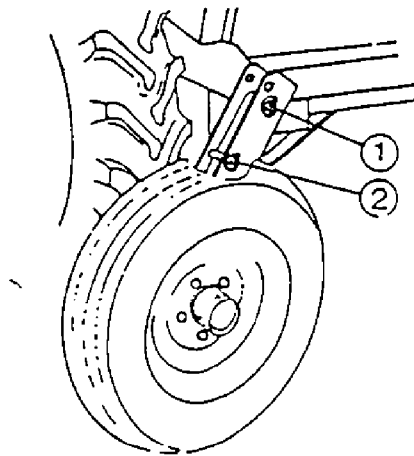


Fig. 2.

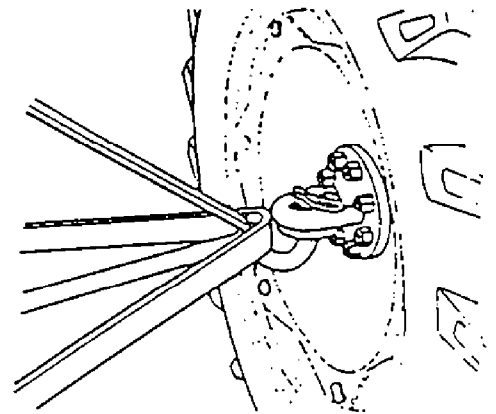


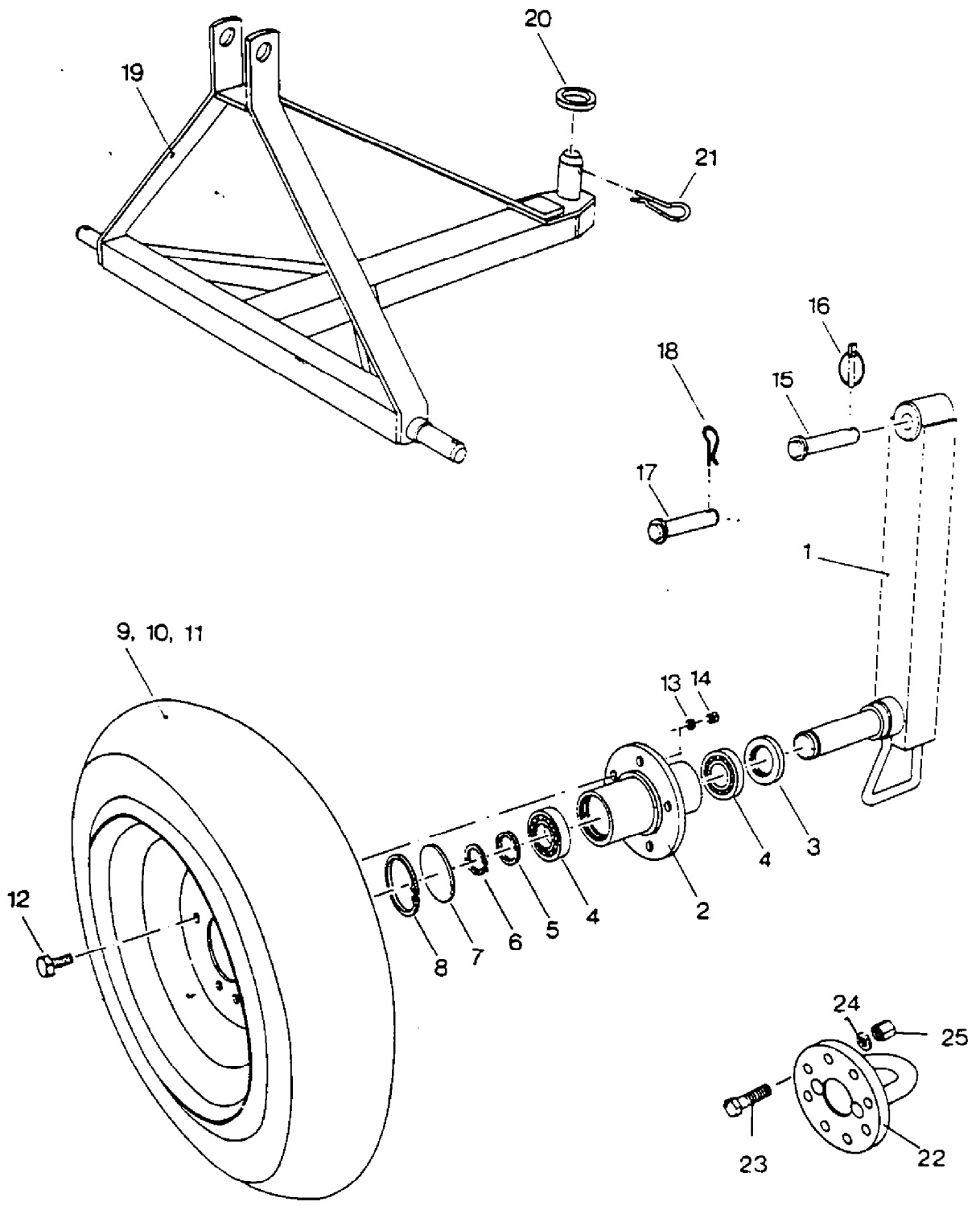
Fig. 3.

Setting the machine in transport position:

- a) Lift the drill connected to the pick-up hitch of the tractor fully up.
- b) Turn the rear transport wheel down and lock it with a knuckle pin.
- c) Turn the front wheel down. In case the knuckle pin does not fit in, turn the adjusting screw so that the wheel can be locked with the pin.
- d) Let the machine down and connect the towing hook to the drawbar. Disconnect the pressure hose from the hydraulic system of the tractor.
- e) Connect the towing hook to the lifting arms of the tractor.
- f) Back up the tractor to the left transport wheel and connect the wheel to the hook by means of a split pin.
- g) Disconnect the end of the adjusting screw from the side of the machine and lift the drawbar up into a vertical position and lock it for transportation.

If the tractor has a separate hydraulic coupling independent of the lifting arms, this can be used to raise and lower the drill on the field and to tow the machine with the transport towing hook.

NOTE ! WHEN USING TRANSPORT WHEELS THE HOPPERS SHOULD BE EMPTY.



JUKO H3000
JUKO H4000

X-6034A
1882

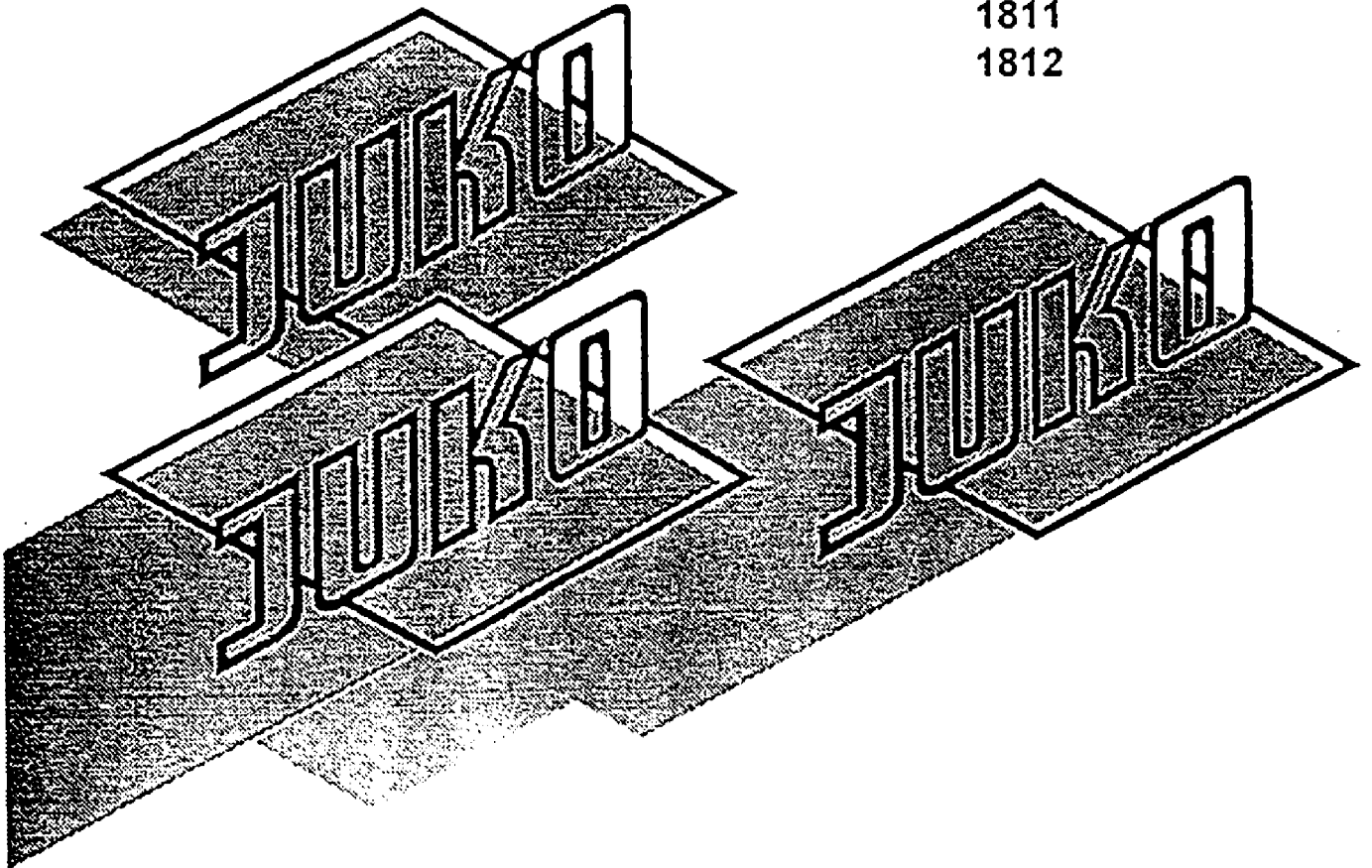
Viite Til.n:o Bild Best.nr Item Part no	KULJETUS- LAITTEISTO	TRANSPORT- ANORDNING	TRANSPORT EQUIPMENT	Kpl/yksikkö Antal/enhet Qty/unit	
1	40937	Runko	Ram	Frame	2
2	41913	Napa	Nav	Hub	2
3	41137	Tiiviste	55x85x12 Tätning	Seal	2
4	52255	Laakeri	6209 Lager	Bearing	4
5	40939	Seeger laatta	SS 45x55x3 Bricka Seeger	Washer	2
6	40940	Pidätinreng.	A45x1,75 Stoppring	Circlip	2
7	40906	Pölysuoja/navan	Dammskydd	Guard	2
8	40917	Pidätinrengas	J 87x3 Stoppring	Circlip	2
9	31987	Levypyörä	5.50"x16" Fälg	Rim	2
10	30127	Sisärengas	7.50"x16" Slang	Tube	2
11	30126	Ulkorengas	7.50"x16" Däck	Tyre	2
12	31984	Kuusioruuvi	M 20x45 Sexkantskruv	Screw, hex	12
13	53233	Jousialuslaatta	M 20 Fjäderbricka	Spring washer	12
14	20645	Kuusiomutteri	M 20 Sexkantmutter	Nut, hex	12
15	11809	Akselitappi	Axeltapp	Axle pin	2
x	56625	Laatta	25,5x35x2 Bricka	Washer	2
16	40150	Rengassokka	D 9 Ringsprint	Linch pin	2
17	40936	Akseli	Axel	Axle	2
18	57228	Neulasokka	D 4,5 Nålspint	Needle pin	2
19	27110	Hinauslaite	Bogserkrok	Draw attachment	1
20	40923	Laatta	42x80x6 Bricka	Washer	1
21	40929	Neulasokka	Nålspint	Needle pin	1
22	41921	Vetolenkki	Dragkrok	Draw hook	1
23	60189	Kuusioruuvi	M20x80 Sexkantskruv	Screw, hex	6
24	53942	Aluslaatta	M20 Bricka	Washer	6
25	53463	Lukkommutteri	M20 Låsmutter	Nut, locking	6



X-1001

1811

1812



JUKO-hinjattava kylvölannoitin	H2500	1F-11001
-bogserad kombimaskin	H3000	0G-01001
-trailed combine placement drill		
-hin. takapyöräkylvölannoitin	HT2500	4FT-40151
-bogserad vältkombisåmaskin	HT3000	4GT-40251
-trailed combined drill with packer roller		

LISÄLAITA FÖRHÖJNINGSLÄMMAR HOPPER EXTENSION

LISÄLAITA
FÖRHÖJNINGSLÄMMAR
HOPPER EXTENSION

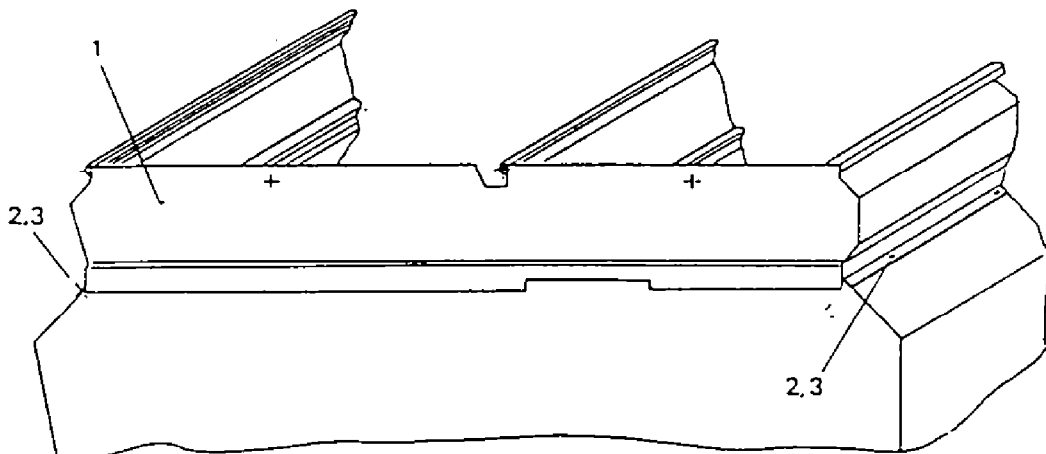
X-1001
1811
1812

JUKO-hinattava kylvöfannoitin H2500
JUKO-bogserad kombimaskin H3000
JUKO-trailed combine placement drill

Aik. valm.numerosta 1F-11001
Från tillverkningsnr. OG-01001
From prod. numbers

Asennus:

- a) Irrotetaan kylvöfannoittimen kansien salvat.
- b) Työnnetään kannet irti saranaholkeistaan.
- c) Nostetaan lisälaita (1) (42820/H2500 ja 42591/H3000) säiliön päälle ja kiinnitetään säiliön laitoihin ruuveilla (2) M8x16 (9 kpl/12 kpl) ja muttereilla (3) M8 (9 kpl/12 kpl).
- d) Asennetaan kannet lisälaitojen saranaholkkeihin.
- e) Kiinnitetään salvat paikoilleen.

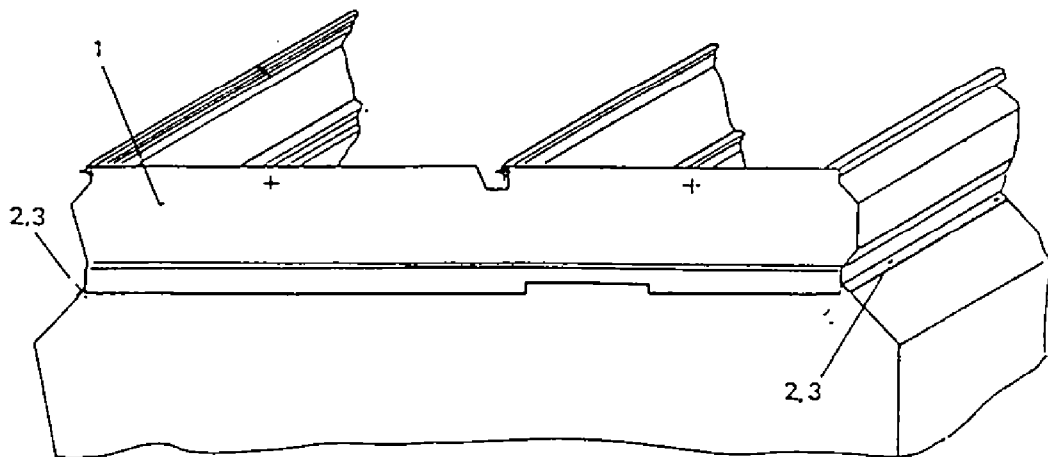


Montering:

- a) Ta av stödjärn som sitter under locket.
- b) Avmontera locken från gångjärn. Tryck mot maskinens ända.
- c) Lyft förhöjningslämmar (1) (42820/H2500 och 42591/H3000) på plats och komplettera monteringen med M8x16 skruvar (2) (9 st/12 st) och M8 muttrar (9 st/12st)(3).
- d) Montera locken på förhöjningslämmar.
- e) Sätt stödjärnet på sin plats.

Installation:

- a) Loosen the latches of the lids of the combination drill.
- b) Push the lids loose from its hinge collars.
- c) Lift the extension (1) (42820/H2500 and 42591/H3000) to the top of the hopper and tighten it to the hopper's sides with screws (2) M 8x16 (9 pcs/12 pcs) and nuts (3) M8 (9 pcs/12 pcs).
- d) Connect the lids with the hinge collars of the extension.
- e) Install the latches.



1

2

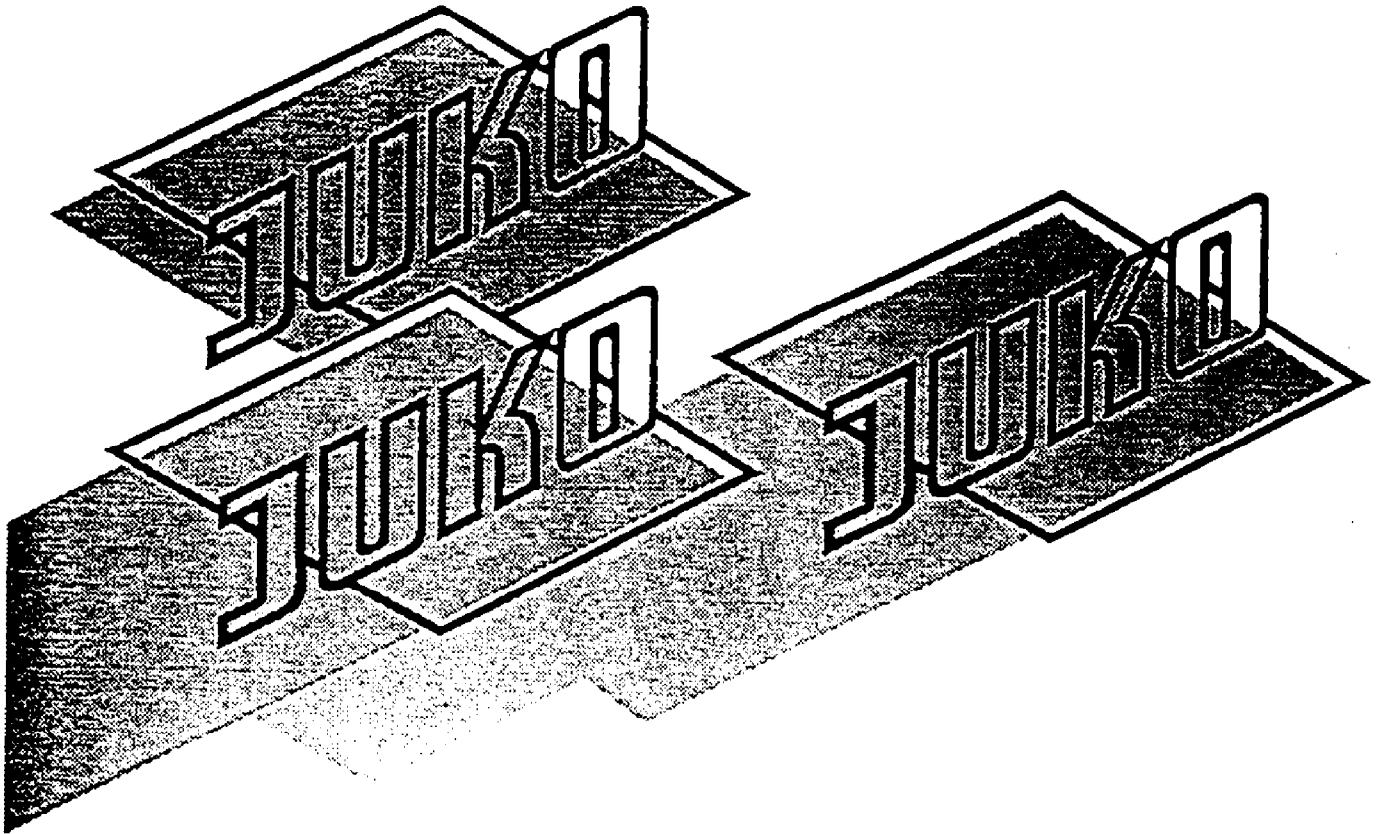
3

4

5

X-6039A

1858,1881

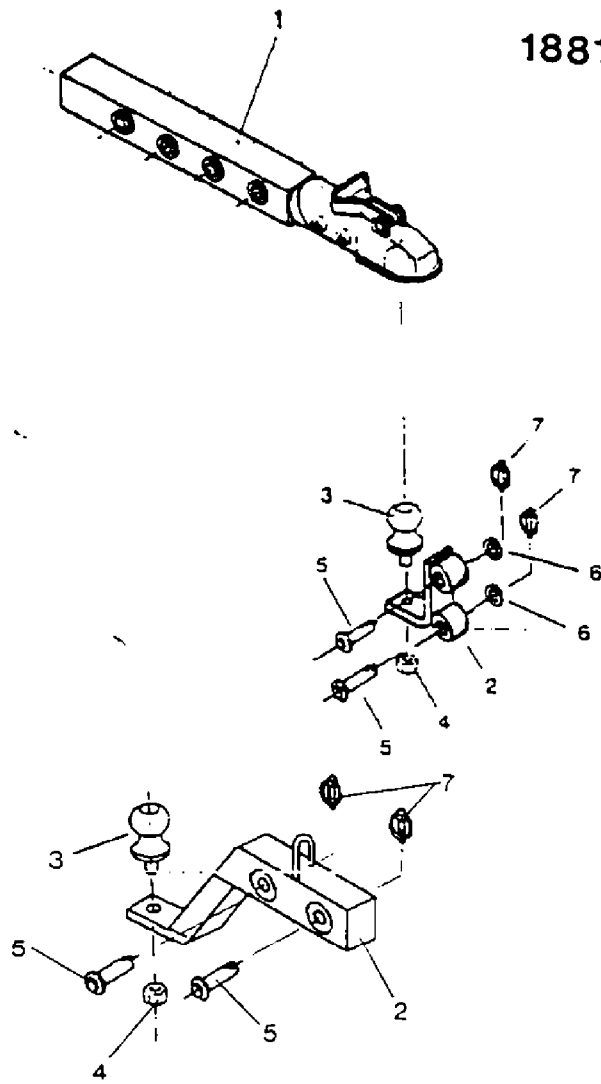


Juko H250	-alkaen valmistusnumerosta:	9D-91701
Juko H2500	-gäller från tillverkningsnr.:	1F-11001
Juko H3000	-from production number:	OG-01001
Juko H4000		1550-6081

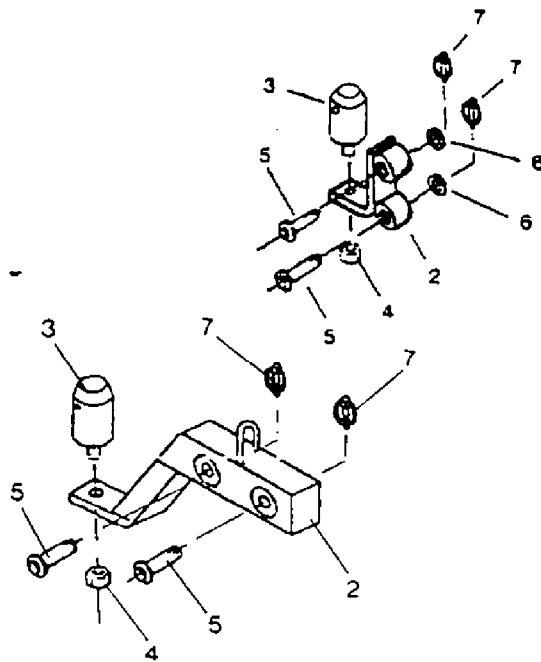
HINAUSLAITE BOGSERINGS UTRUSTNING DRAW BAR SET

29.12.95

1881



1858



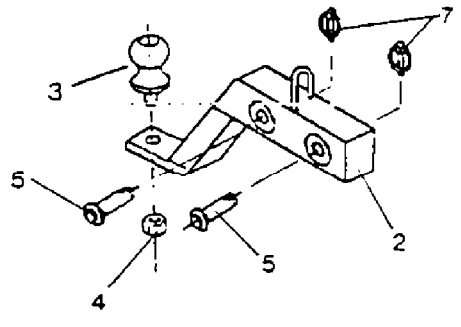
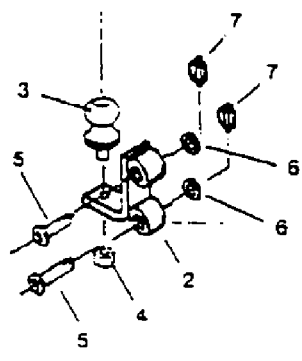
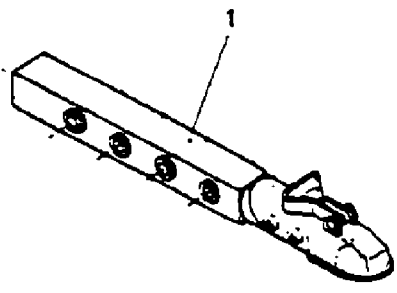
			X-6039A
			1881
Juko H250		alk.valm.numerosta	9D-91701
Juko H2500		gäller från tillverkningsnr.	1F-11001
Juko H3000		from serial number	0G-01001
Juko H4000			1550-6081

Hinausvarustus iyrskäyttö, LELY 250- ja KVERNELAND-sarja

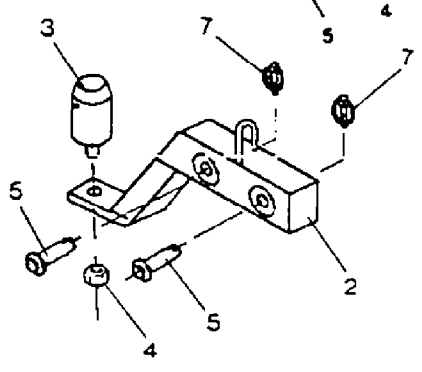
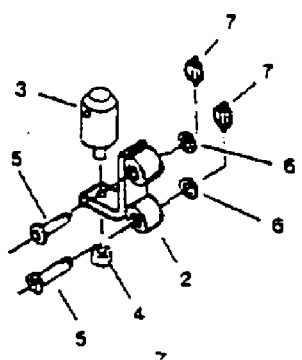
Bogserings utrustning för LELY-fräs 250- och KVERNELAND-serie

Viite Til.n:o					Kpl/yksikkö
Bild Best.nr					Antal/enhet
Item Part no					Qty/unit
1	350172	Vetopalkki	Dragbom	Drawbar	1
		LELY 250-22, 300-22	LELY 250-22, 300-22	LELY-250-22,300-22	
2	35918	Vetokoukku, runko	Dragkrok, ram	Drawhook, frame	1
3	35175	Vetokuula, D 50	Kula, D 50	Draw ball D 50	1
4	20645	Kuusiomutteri M20	Sexkantmutter M20	Nut, hex M20	1
5	53193	Akselitappi	Axeltapp	Axle pin	2
6	30903	Aluslaatta M24	Bricka M 24	Washer M 24	2
7	40150	Rengassokka D 9	Ringsprint D 9	Linch pin D 9	2
		KVERNELAND-SARJA	KVERNELAND-SARJA	KVERNELAND-SARJA	
2	35920	Vetokoukku, runko	Dragkrok, ram	Drawhook, frame	1
3	35175	Vetokuula D 50	Kula D 50	Draw ball D 50	1
4	20645	Kuusiomutteri M20	Sexkantmutter M20	Nut, hex M20	1
5	53193	Akselitappi	Axeltapp	Axle pin	2
x	30903	Aluslaatta M24	Bricka M24	Washer M24	2
7	40150	Rengassokka D 9	Ringsprint D 9	Linch pin D 9	2

1881



1858



X-6039A
1858

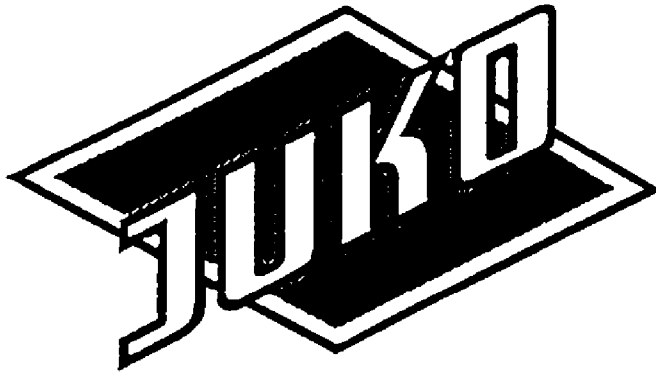
Juko H250	aik.valm.numerosta	9D-91701
Juko H2500	gäller från tillverkningsnr.	1F-11001
Juko H3000	from serial number	0G-01001
Juko H4000		1550-6081

Hinausvarustus jyrinkäyttö, LELY 250- ja KVERNELAND-sarja

Bogserings utrustning för LELY-fräs 250- och KVERNELAND-serie

Viite Til.n:o				Kpl/yksikkö
Bild Best.nr				Antal/enhet
Item Part no				Qty/unit
		LELY 250-22, 300-22	LELY 250-22, 300-22	LELY-250-22,300-22
2 35918	Vetokoukku, runko	Dragkrok, ram	Drawhook, frame	1
3 70413	Tappi	Tapp	Tap	1
4 20645	Kuusiomutteri M20	Sexkantmutter M20	Nut, hex M20	1
5 53193	Akselitappi	Axeltapp	Axle pin	2
6 30903	Aluslaatta M24	Bricka M 24	Washer M 24	2
7 40150	Rengassokka D 9	Ringsprint D 9	Linch pin D 9	2
		KVERNELAND-SARJA	KVERNELAND-SARJA	KVERNELAND-SARJA
2 35920	Vetokoukku, runko	Dragkrok, ram	Drawhook, frame	1
3 70413	Tappi	Tapp	Tap	1
4 20645	Kuusiomutteri M20	Sexkantmutter M20	Nut, hex M20	1
5 53193	Akselitappi	Axeltapp	Axle pin	2
x 30903	Aluslaatta M24	Bricka M24	Washer M24	2
7 40150	Rengassokka D 9	Ringsprint D 9	Linch pin D 9	2





**X-7021
1852**

JUKO-kylvölannoitin	N20
-hydraulburen kombimaskin	N25
-combine placement drills	
JUKO-hinattava kylvölannoitin	H250
-bogserad kombimaskin	H2500
-trailed combine placement drill	H3000, H4000
-alkaen valmistusnumeroista:	K1-712101
-gäller från tillverkningsnr.:	K2-715101
-from production numbers:	9D-91701
	1F-11001
	OG-01001
	1550-6081

JYRÄYKSIKKÖ TRYCKHJULSATS PRESSURE ROLLER UNIT

23.08.96



X-7021

Juko N20	Juko-jyräyksikkö	
N25	-tryckhjulsats	1852
H250	-pressure roller unit	
H2500		
H3000		
H4000		

ASENNUSOHJE

Jyrälaite koostuu neljän jyräpyörän muodostamista yksiköistä, jotka asennetaan astintason alle tasossa oleviin reikiin.

Yksiköiden määrä koneessa:	2,0 m 4 kpl
	2,5 m 5 kpl
	3,0 m 6 kpl

MONTERINGSANVISNING

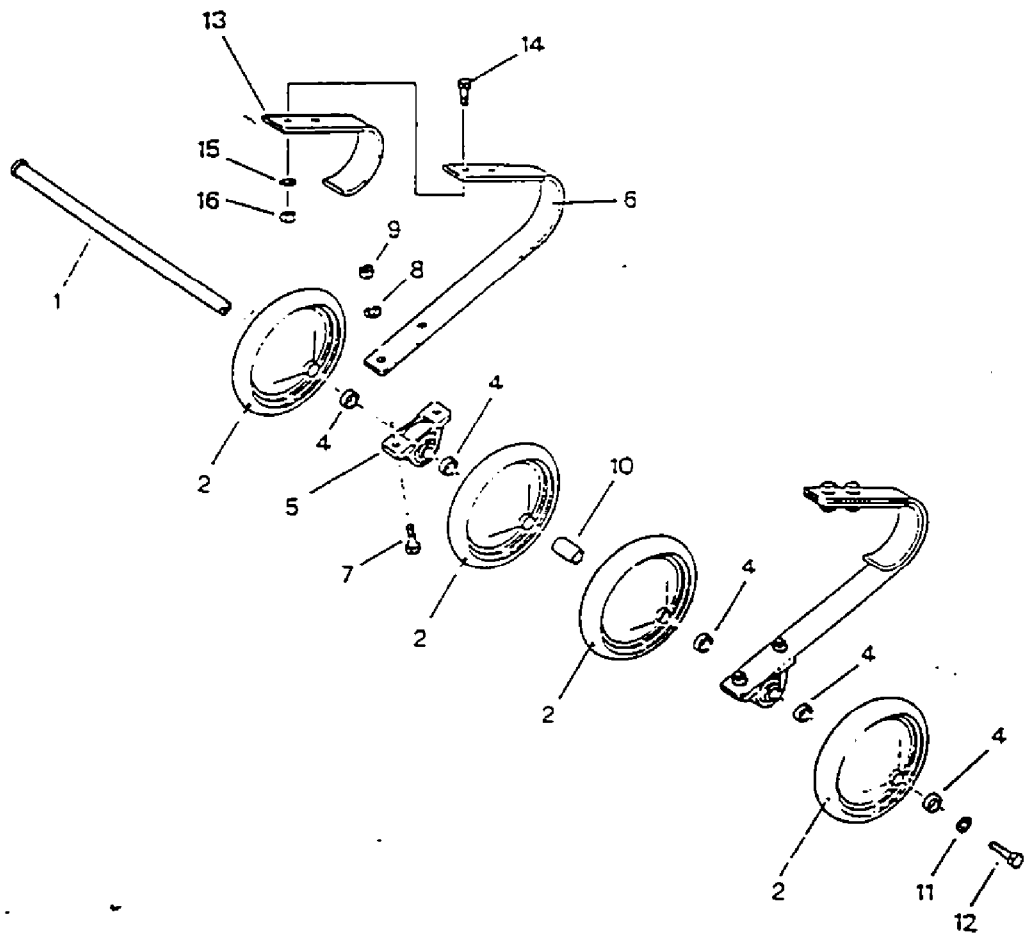
Tryckhjulsats är sammansatt av enheter med fyra tryckhjul, som monteras på undre sidan av stigbrädan.

Antal enheter per maskin:	2,0 m 4 st
	2,5 m 5 st
	3,0 m 6 st

INSTRUCTIONS FOR ASSEMBLY

The JUKO pressure rollers consist of roller units each consisting of 4 wheels. The roller units attach to the underside of the attachment carrier.

Number of roller units in each drill:	2,0 m 4 pcs
	2,5 m 5 pcs
	3,0 m 6 pcs

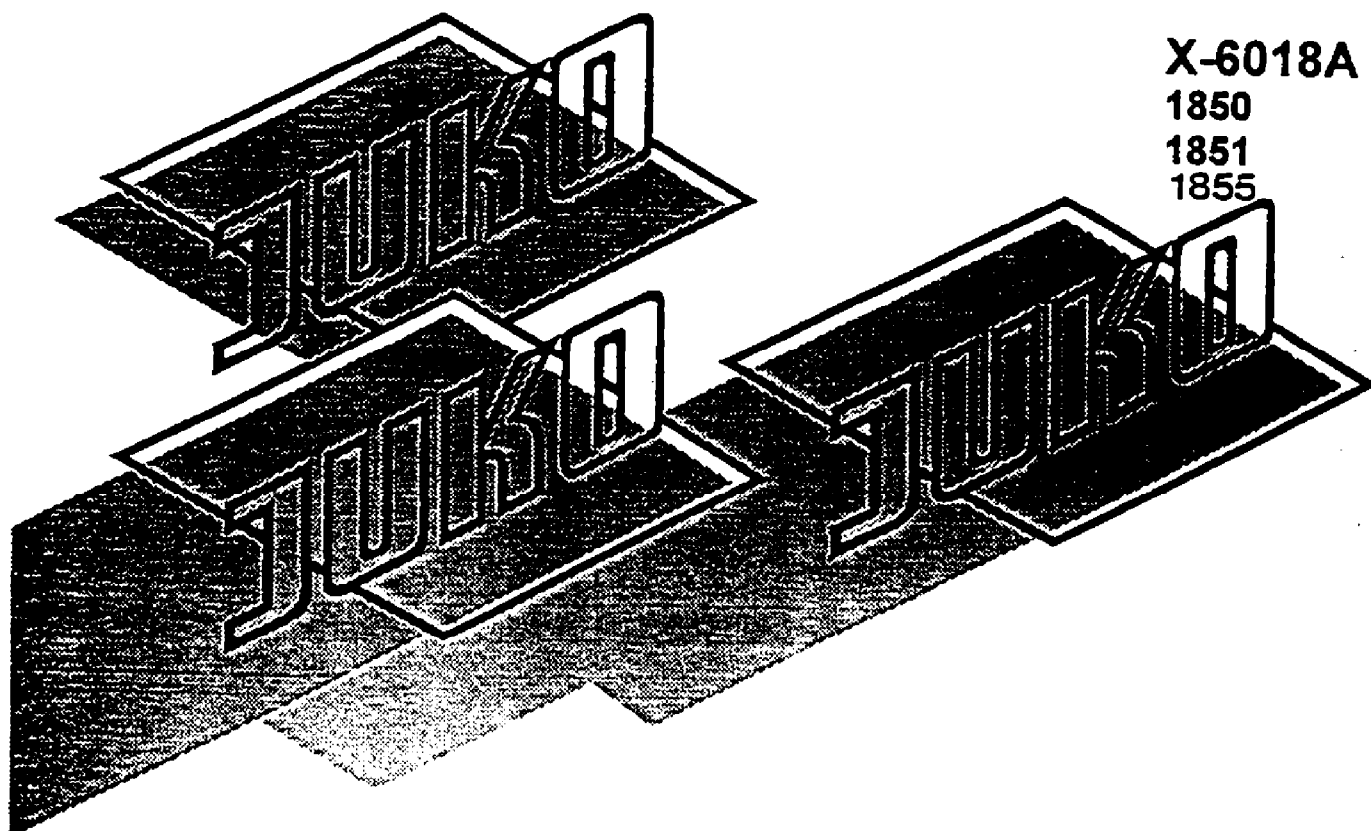


X-7021

1852

Viite Bild Item	Til.n:o Best.nr Part no	JYRÄYKSIKKÖ	TRYCKHJUL- SATS	PRESSURE ROLLER UNIT	Kpl/yksikkö Antal/enhet Qty/unit	2,0	2,5	3,0
	350542	JYRÄYKSIKKÖ,	TRYCKHJUL-	PRESSURE ROLLER				
		koottuna	SATS, kompl.	UNIT, assy	4	5	6	
1	35544	Akseli	Axel	Axle	4	5	6	
2	35569	Jyräpyörä	Tryckhjul	Pressure roller	16	20	24	
4	35546	Holkki	Holk	Bush	20	25	30	
5	90321	Pystytaakeri	SY25TF Lager	Bearing	8	10	12	
6	35548	Silmukkajousi	Ögglefjäder	Spring	8	10	12	
7	42527	Kuusioruuvi	M10x40 Sexkantskruv	Screw, hex	16	20	24	
8	10607	Aluslaatta	M10 Bricka	Washer	16	20	24	
9	10760	Kuusiomutteri	M10 Sexkantmutter	Nut, hex	16	20	24	
10	35545	Holkki	Holk	Bush	4	5	6	
11	53759	Laatta	12,5x35x1,5 Bricka	Washer	4	5	6	
12	30952	Kuusioruuvi	M12x30 Sexkantskruv	Screw, hex	4	5	6	
13	35549	Tukijousi	Fjäder	Support.spring	8	10	12	
14	42527	Kuusioruuvi	M10x40 Låsskruv	Lock screw	16	20	24	
15	10607	Aluslaatta	M10 Bricka	Washer	16	20	24	
16	10760	Kuusiomutteri	M10 Sexkantmutter	Nut, hex	16	20	24	



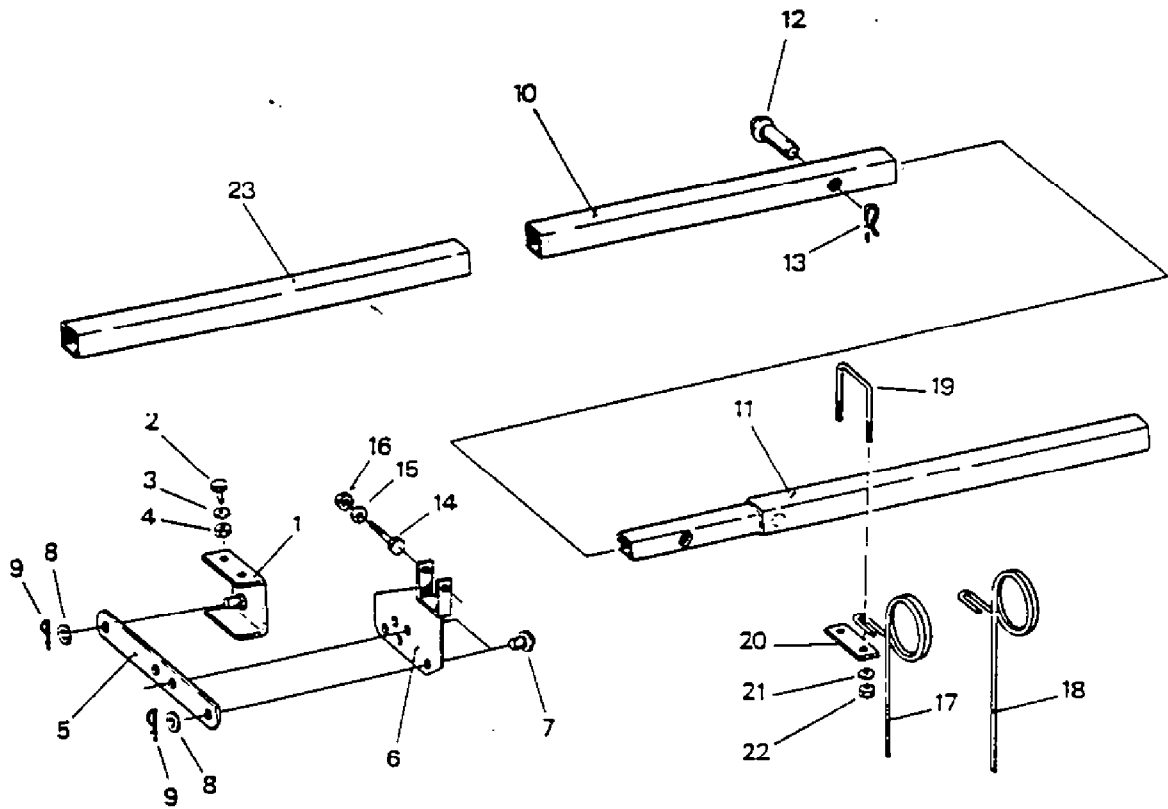


X-6018A
 1850
 1851
 1855

JUKO	-kylvöiannoitin -kombimaskin -combination placement drill	N20 N25	Aik. valm.numerosta Från tillverkningsnr. From serial number	K1-712101 K2-715101
JUKO	-hin.kylvöiann. -bogserad kombim. -trailed combination placement drill	H250 H2500 H3000 H4000	Aik. valm.numerosta Från tillverkningsnr. From serial number	9D-91701 1F-11001 0G-01001 1550-6081

JÄLKIÄES EFTERHARV REAR HARROW

05.01.96



Juko N20 K1-712101
 Juko N25, H250, H2500 K2-715101, 9D-91701, 1F-11001
 Juko H3000 OG-01001
 Juko H4000 1550-6081

X-8018A

1850

1851

1855

Viite Til.n:o JÄLKIÄES
 Bild Best.nr
 item Part no

EFTERHARV

REAR HARROW

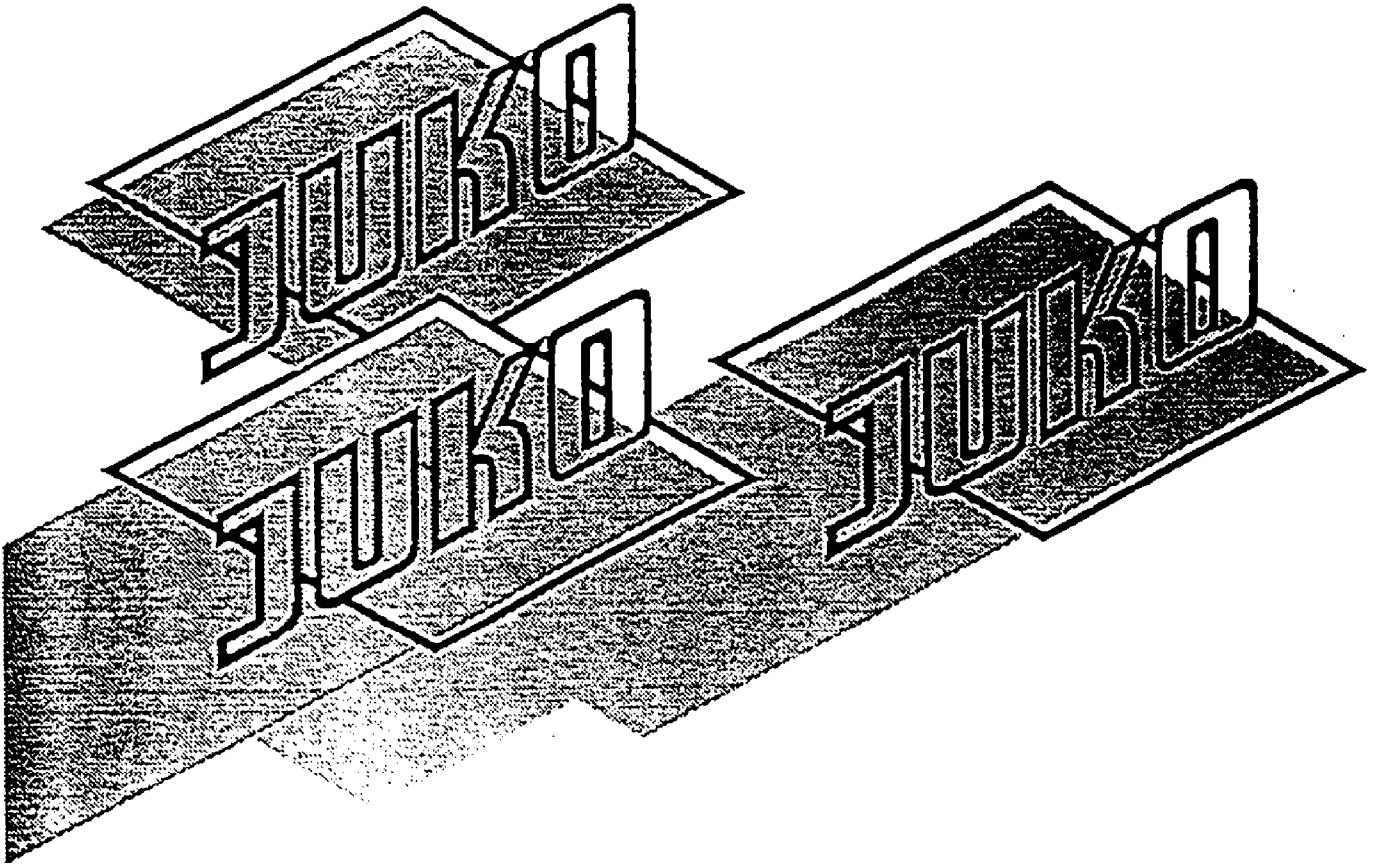
Kpl/yksikkö
 Antal/enhet
 Qty/unit
 2,5 3,0 4,0

1	42583	Kiinnityskorvake		Fäste	Bracket	2	2		
2	30947	Kuusioruuvi	M10x35	Sexkantskruv	Screw, hex	4	4		
3	10607	Aluslaatta	M10	Bricka	Washer	4	4		
4	10760	Kuusiomutteri	M10	Sexkantmutter	Nut, hex	4	4		
5	42584	Vetovarsi		Dragarm	Drawbar	2	2		
6	42585	Kiinnityslevy		Fäste	Bracket	2	2		
7	11703	Akselitappi		Axeltap	Knuckle pin	4	4		
8	53942	Aluslaatta	M20	Bricka	Washer	6	6	12	
9	57228	Neulasokka	D4,5	Nålsprint	Needle pin	6	6	12	
10	30556	Palkki	2,5m	Balk	Bar	1			
10	42586	Palkki	3,0m	Balk	Bar				
10	42969	Palkki	4,0m	Balk	Bar			1	
11	42587	Jatkopalkki		Förlängningst.	Bar extension				
12	41175	Akselitappi		Axeltapp	Knuckle pin			1	
13	57228	Neulasokka	D4,5	Nålsprint	Needle pin			1	
14	30954	Kuusioruuvi	M10x90	Sexkantskruv	Screw, hex	2	2		
15	10153	Jousialuslaatta	M10	Fjäderbricka	Washer, spring	2	2		
16	10760	Kuusiomutteri	M10	Sexkantmutter	Nut, hex	2	2		
17	11714	Jousipiikki	D8	Fjäderpinne	Tine/spring	26			
17	13825	Jousipiikki	D10	Fjäderpinne	Tine/spring	26	33	42	
18	11720	Jousipiikki	D8	Fjäderpinne	Tine/spring	6			
18	13828	Jousipiikki	D10	Fjäderpinne	Tine/spring	6	8	8	
19	10776	U-pultti	M10x215	U-bult	U-bolt	32	41	50	
20	10775	Laatta		Platta	Fixing plate	32	41	50	
21	10153	Jousialuslaatta	M10	Fjäderbricka	Washer, spring	64	82	100	
22	10760	Kuusiomutteri	M10	Sexkantmutter	Nut, hex	64	82	100	
23	42970	Palkki		Balk	Bar				



X-9054

1831



JUKO. H250
H/HT2500
H/HT3000
H/HT4000

9D-91701
1F-11001, 4FT-40151
0G-01001, 4GT-40251
1550-6081, 1750-6051

**LANNOITTEEN
KAUKOSÄÄTÖLAITE
FJÄRRANMANÖVERKABEL**

FJÄRRMANÖVERKABEL FÖR HANDELSGÖDSEL

Monteringsanvisning:

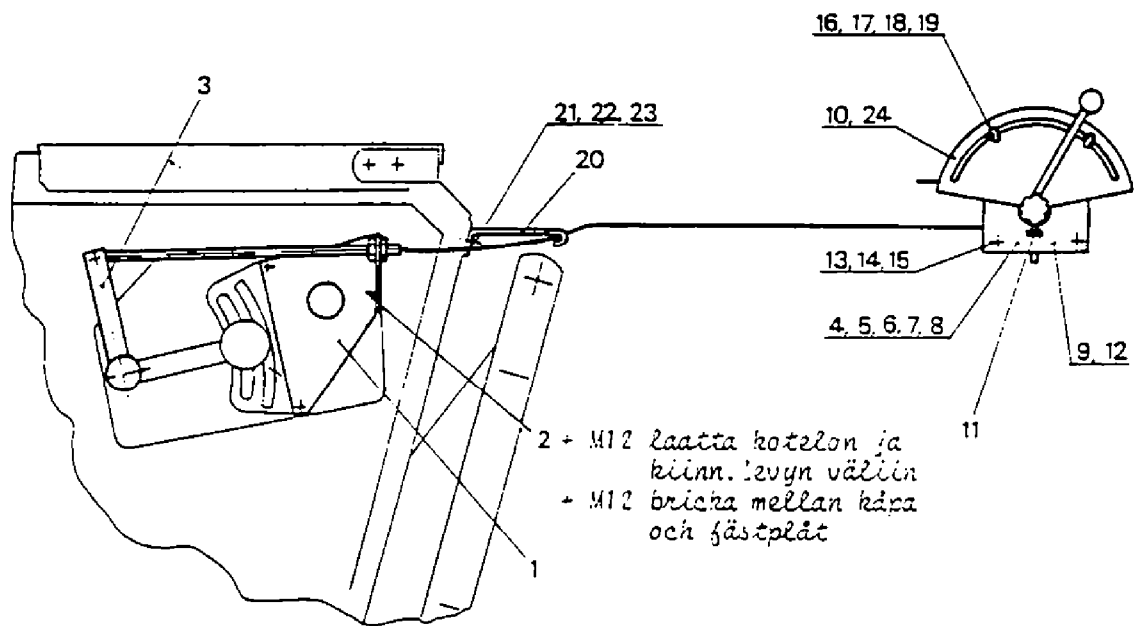
Placera Optiseed ställspaken i 0-läge. Lös spakens fästmutter. Montera spaken 3 på ställspaken och spänn muttern (brickan bör lämnas bort). Lösgör fästskruvarna för Optiseed skalan och den övre skruven på framsidan. Montera fästplattan 1 på skalan så, att den främre skruven utbytes till skruv M8x90 så, att den från Optiseed ställspaken avlägsnade brickan M12 placeras här mellan fästplattan och Optiseed-lådan. På skalan användes de ursprungliga skruvarna.

Montera kabelstödet 20 i det övre hålet på lådans främre hörn med en skruv M8x20 21, bricka M8 22 och sexkantmutter M8 23. Montera fäststycket 4 med två M8x30 sexkantskruvar 6 samt brickor M8 7 och sexkantmuttrar M8 8 på önskat ställe i traktorn så, att skruven kommer framtill.

Montera fjärrmanöverreglaget på fäststycket med vingmutter M10 5. Dra kabelns andra ända genom fästplattan till spaken. Dra åt fästmuttrarna och ställ spaken i 0-läge. Fäst spaken på reglaget i traktorn i sådant läge, att den lätt går att manövrera. Ställ in skalan så, att den motsvarar Optiseed-skalan och lås med skruv M6x20 11.

Inställ lämplig bromskraft genom att vrida på knoppen. Med begränsarna på skalan kan minimi och maximi gödselmängd regleras. Knoppen på Optiseed ställspaken bör lösas, så att gödselmängden obehindrat kan regleras från traktorn.

LANNOITTEEN
KAUKOSÄÄTÖLAITE



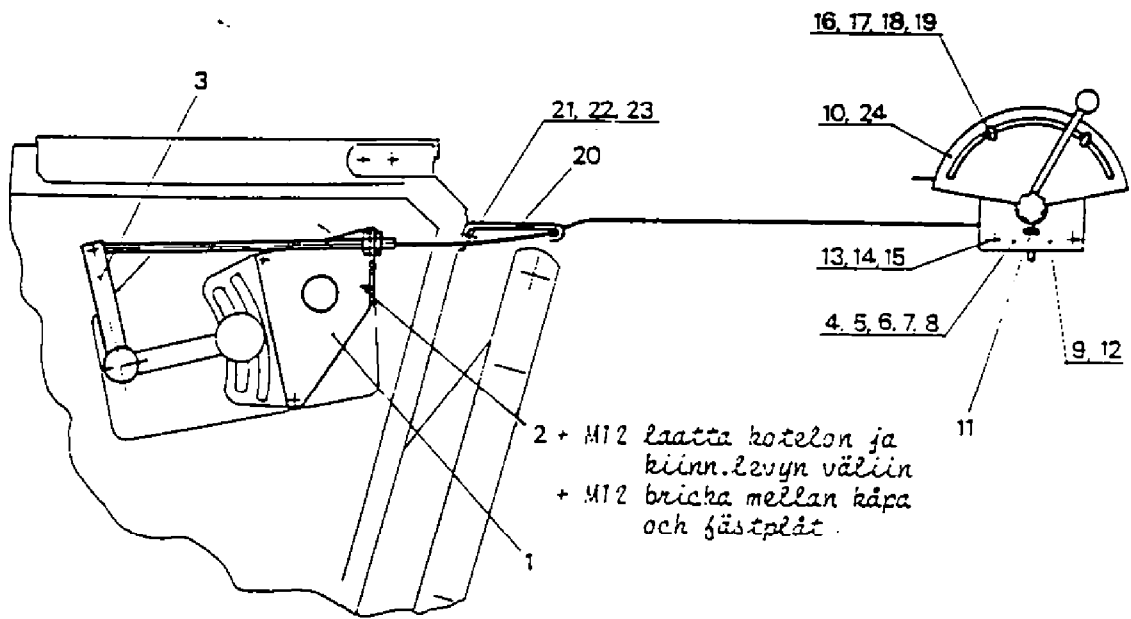
Asennusohje:

Säädä Optiseedin säätövipu 0-asentoon. Irrota säätövipun kiinnitysmutteri. Asenna säätövipun päälle vipu (3) ja kiristä mutterilla (jätä aluslaatta pois). Irrota Optiseedin säätökaaren kiinnitysruuvit ja etuosan ylempi ruuvi. Kiinnitä säätökaaren päälle kiinnityslevy (1) siten, että etummainen ruuvi vaihdetaan M8x90, asenna tämän kohdalle kiinnityslevyn ja Optiseedin väliin vivusta irrottamasi M12 laatta, säätökaaren kohdalla käytä vanhoja ruuveja.

Kiinnitä kannatin (20) säiliön etukulmassa olevaan ylempään reikään M8x20 ruuvilla (21), M8 aluslaatalla (22) ja M8 kuusiomutterilla (23). Kiinnitä kiinnityskappale (4) kahdella M8x30 kuusioruuvilla (6), M8 aluslaatalla (7) ja M8 kuusiomutterilla (8) traktoriin haluamaasi paikkaan siten, että ruuvi tulee eteenpäin.

Kiinnitä kaukosäätölaite kiinnityskappaleeseen M10 siipimutterilla (5). Kiinnitä vaijerin toinen pää kiinnityslevyn läpi vivulle. Lukitse kiinnitysmutterit ja säädä vipu 0-asentoon. Kiinnitä traktorissa olevan säätölaitteen vipu asentoon, jossa sitä on helppo käyttää. Säädä asteikko vastaamaan Optiseedin asteikkoa, lukitse M6x20 ruuvilla (11).

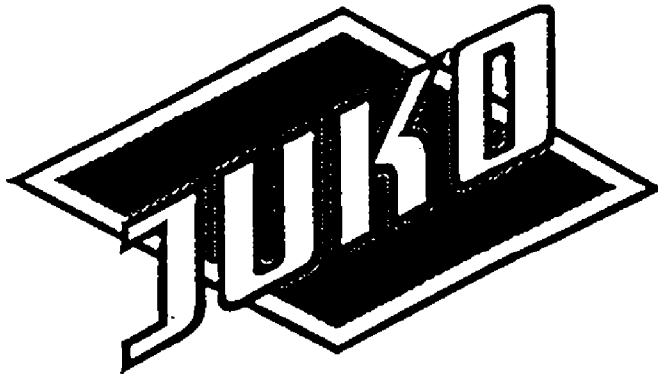
Jarrutusvoima säädetään riittävän suureksi nupista kiertämällä. Säätökaarella olevilla rajoittimilla voit säätää lannoitusmäärän enimmäis- ja vähimmäismäärän. Optiseedin säätövipun kiristysnuppi on pidettävä löysällä, jotta lannoitemäärää voidaan säätää traktorista.



Viite Bild	Til.n:o Best.nr	LANNOITTEEN KAUKOSÄÄTÖLAITE	FJÄRRANMANÖVER- KABEL, komplett	Kpl/yksikkö Antal/enhet
1	33550	Kiinnityslevy	Fästplatta	1
2	60339	Kuusioruuvi	M8x90 Sexkantskruv	1
3	32704	Vipu	Spak	1
4	58605	Kiinnityskappale	Fäststycke	1
5	30995	Siipimutteri	M10 Vingmutter	1
6	53408	Kuusioruuvi	M8x30 Sexkantskruv	2
7	10784	Aluslaatta	M8 Bricka	2
8	30969	Kuusiomutteri	M8 Sexkantmutter	2
9	35556	Kaukosäätölaite	Fjärranmanöverkabel	1
x	35565	Vaijeri	l=6,0m Vaijer	1
10	33552	Säätökaari	Reglersegment	1
11	85585	Kuusioruuvi	M6x20 Sexkantskruv	1
12	33554	Runko/säätölaite	Ram/för fj.manöverkabel	1
13	35566	Kuusioruuvi	M6x30 Sexkantskruv	4
14	53503	Aluslaatta	M6 Bricka	4
15	30262	Kuusiomutteri	M6 Sexkantmutter	4
16	30527	Lukkoruuvi	M8x30 Låsskruv	2
17	10607	Aluslaatta	M10 Bricka	4
18	33557	Holkki	Holk	2
19	30966	Siipimutteri	M8 Vingmutter	2
20	33555	Kannatin	Kabelstöd	1
21	53363	Kuusioruuvi	M8x20 Sexkantskruv	1
22	10784	Aluslaatta	M8 Bricka	1
23	30969	Kuusiomutteri	M8 Sexkantmutter	1
24	33553	Asteikko	Skala	1



X-6037A
1893



JUKO H/HT2500
H/HT3000
H/HT4000

-alkaan valm.numerosta
-gäller från tillverkningsnr.
-from production numbers

1F-11001, 4FT-40151
0G-01001, 4GT-40251
1550-6081, 1750-6051

RIVINMERKITSIN
RIVINMERKITSIMEN VAIHTAJA
HYDRAULINEN

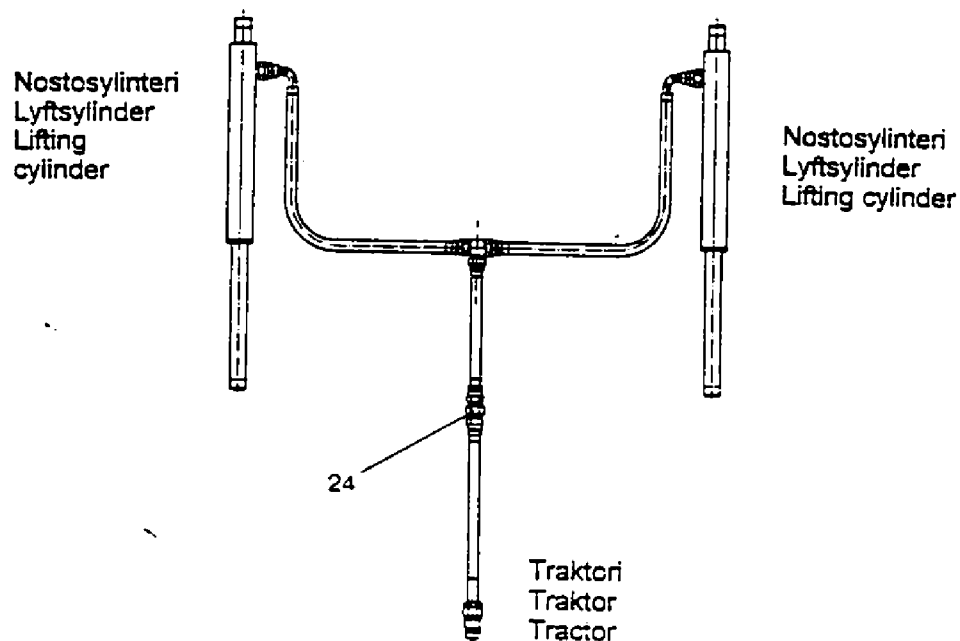
RADMARKÖR
SKIFTARE FÖR RADMARKÖR
HYDRAULISK

ROWMARKER, assy
SWITCHING DEVICE FOR MARKER
HYDRAULIC

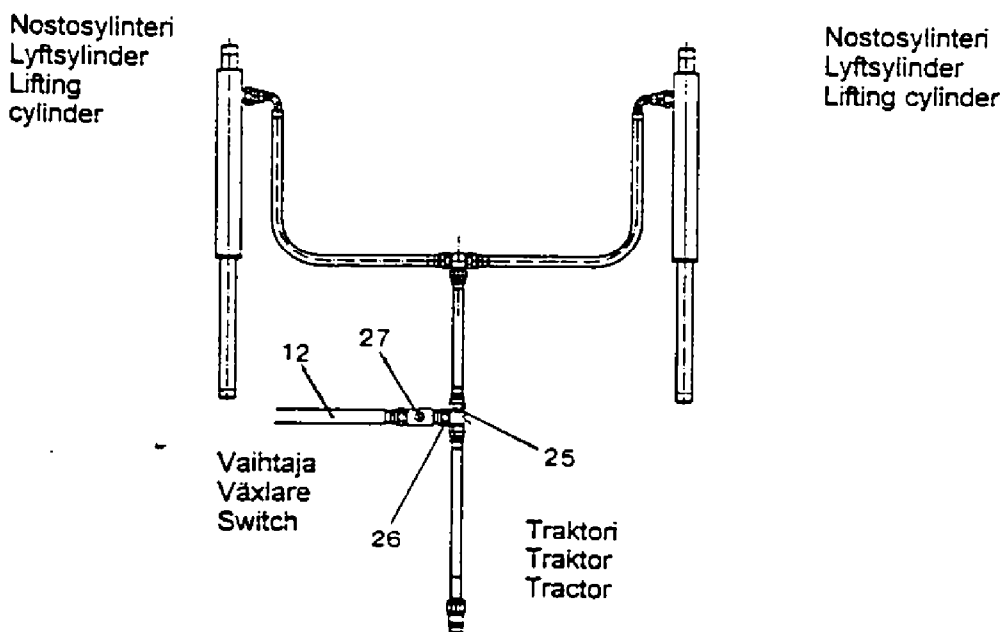
17.01.97

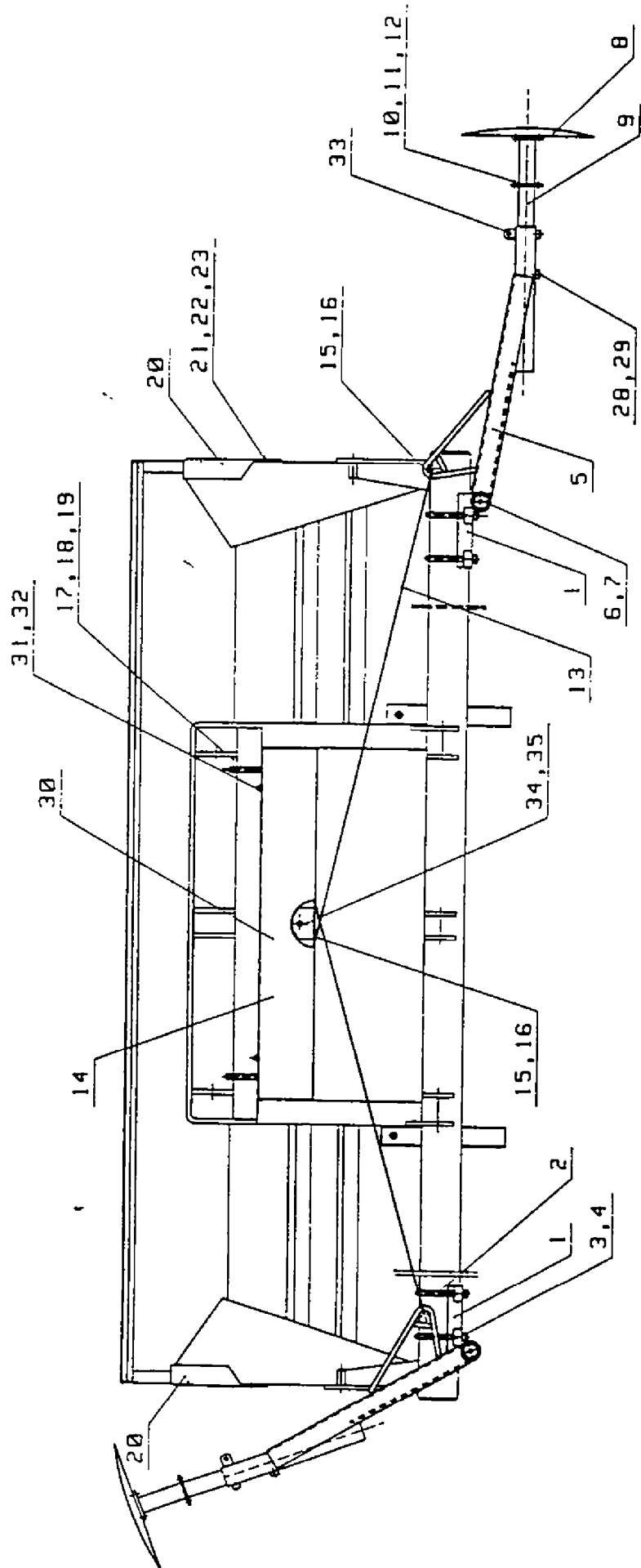


Peruskoneen hydraulikka ilman rivinmerkkääjää
 Basmaskinens hydraulik utan radmarkör
 Hydraulic for basic machine less row markers



Peruskoneen hydraulikka, sisältää rivinmerkkääjän
 Basmaskinens hydraulik inklusive radmarkör
 Hydraulic for basic machine row marker included





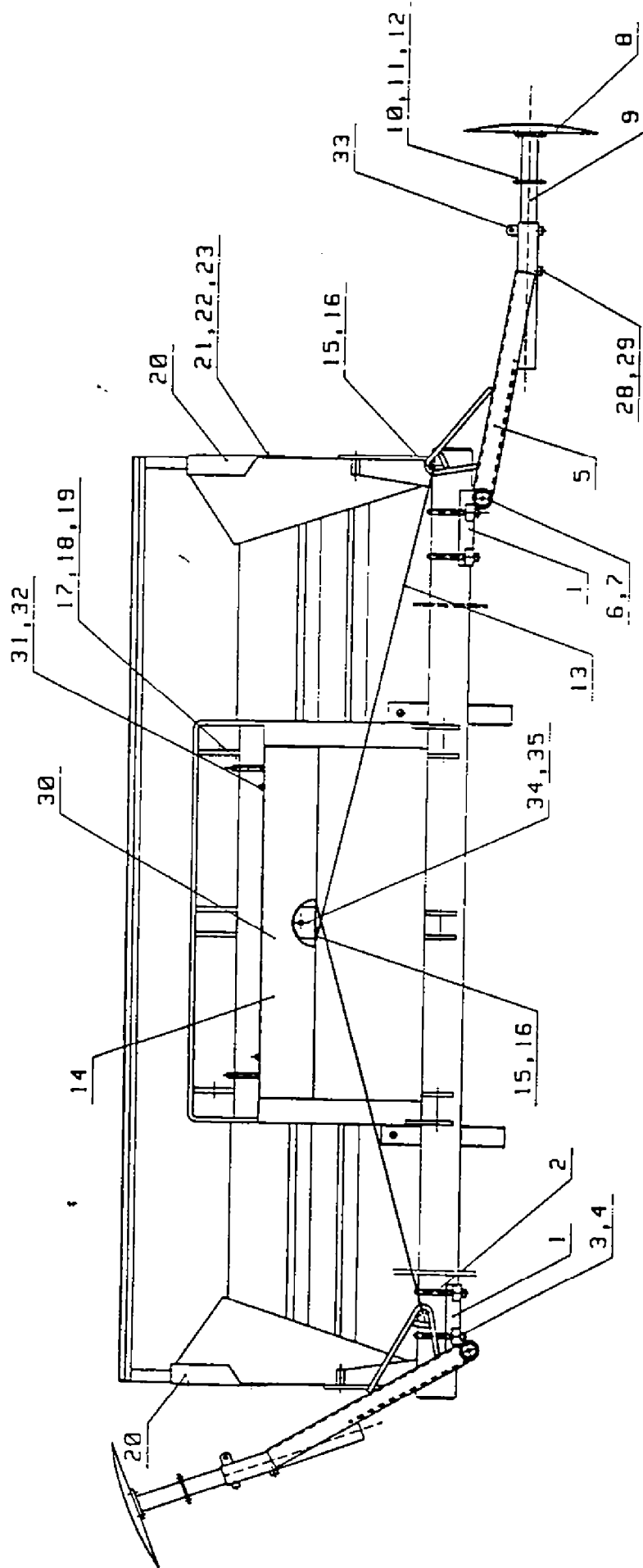
HYDRAULISET RIVINMERKITSIMET

Rivinmerkitsimien avulla kylvökaistojen saumakohdat saadaan tarkalleen halutuiksi. Rivinmerkitsimet toimivat automaattisesti konetta nostamalla ja laskemalla. Automaattinen vaihtaja vaihtaa vuorotellen oikeaa ja vasenta merkitsintä, kun kylvölannoitin nostetaan aivan ylös. Haluttaessa voidaan käyttää vain toista merkitsintä.

Asennusohje

Hydraulinen vaihtaja asennetaan kylvölannoittimen vetokehikon sisään ja merkitsimet etupalkin päihin.

1. Kiinnitetään rivinmerkitsimen runko (1) (Huom. oikea ja vasen) kylvölannoittimen runkoon U-pultilla (2), aluslaatoilla M12 (3) ja kuusiomuttereilla M12 (4).
 2. Kiinnitetään varsi (5) rivinmerkitsimen runkoon sokalla (6) ja laotalla (7).
 3. Kiinnitetään lautanen (8) säätöputkeen (9) kuusioruuvilla M10x25 (10) aluslaotalla M10 (11) ja kuusiomutterilla M10 (12).
 4. Kiinnitetään vaijerit (13) vaihtajaan (14) koussilla D8 (15) ja vaijerilukolla D 6.5 (16) siten, että oikeanpuoleisen merkitsijän vaijeri tulee vaihtajan vasemmalle puolelle ja vasemmanpuoleisen oikealle puolelle.
 5. Kiinnitetään vaihtaja (14) laotoilla (17) aluslaotoilla (18) ja kuusiomuttereilla (19) kylvölannoittimen runkoon siten, että vaihtajan takasuojus kiinnittyy laottojen (17) sekä rungon väliin.
 6. Kiinnitetään korvakkeet (20) (Huom. Oikea ja vasen) säiliön etukulmiin kuusioruuvilla M10x20 (21) jousialuslaotalla M10 (22) ja kuusiomutterilla M10 (23).
 7. Kiinnitetään vaijerin (13) toinen pää rivinmerkitsimen varteen (5) koussilla (15) ja vaijerilukolla D 6,5 (16).
 8. Irroitetaan kylvölannoittimen hydrauliletkussa oleva kaksinippa (24) ja laitetaan tilalle nippa (25), jonka sivuhaaraan laitetaan yhdynippa (26), vastusvastaventiili (27) sekä vaihtajalta (12) tuleva hydrauliletku.
 9. Säädetään vastusvastaventiilistä merkitsimien nousunopeus sopivaksi.
(HUOM! Venttiili vain vähän auki.)
 10. Säädetään merkitsimien pituudet sopiviksi ja lukitaan kiinnitysruuvilla (28) sekä lukitusmutterilla (29).
 11. Säädetään vaijerin pituus ja paikka merkitsimessä siten, että merkitsin painuu riittävä alas ja pystyyn nostettaessa lautanen on renkaan sisäpuolella (melkein pystysuorassa).
 12. Kiinnitetään vaihtajan (12) etusuojus (30) paikoilleen aluslaotalla M8 (31) ja siipimutterilla M8 (32).
 13. Rivimerkitsimet lukitaan kuljetuksen ajaksi pystyasentoon sokalla (33).
- Peltiohkoa ympäri kylvetäessä voidaan käyttää vain toista merkitsintä. Laitetaan tappi (38) vaihtajaan (12) siten, että vaihtajan vivut kulkevat tapin (34) yli, jolloin vaihtoa ei tapahdu. Tappi (34) lukitaan renqassokalla (35).



HYDRAULISKA MARKÖRER

Med hjälp av markörer går det lätt att undvika dubbelsådd och osådd fläckar i körvändomas sömmar.

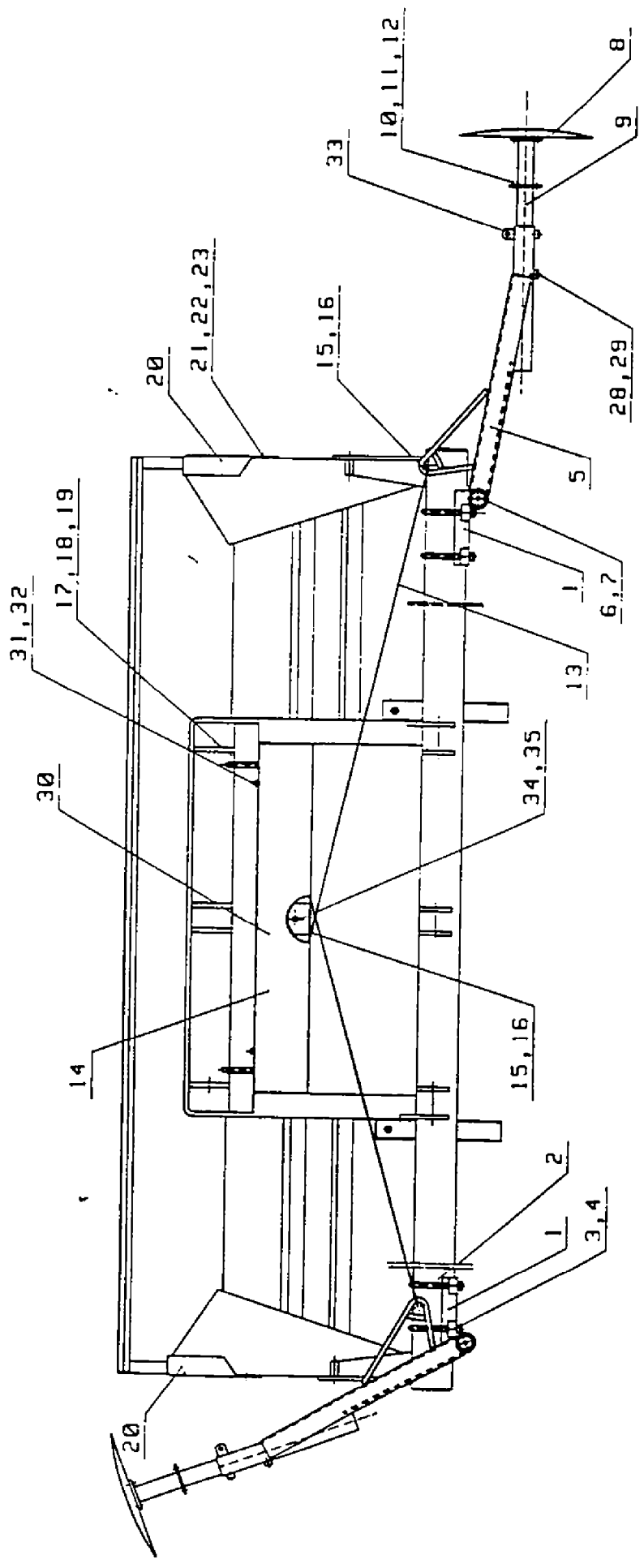
Markörerna fungerar automatiskt vid lyftande och sänkande av maskinen. Den automatiska växlarer aktiverar turvis höger och vänster markör då kombimaskinen lyftes helt upp. Vid behov kan också endast den ena markören användas.

Montering

Den hydrauliska växlarer placeras i kombimaskinens diagram och markörarmarna på den främre rambalkens hörn.

1. Markörens ram (1) (OBS höger och vänster). fästes på maskinens ram med U-bultar (2), brickor M12 (3) och sexkantmuttrar M12 (4).
2. Skåft (5) fästes vid markörens ram med sprint (6) och bricka (7).
3. Tallriken (8) fästes vid regierskaftet (9) med sexkantskruv M10x25 (10), bricka M10 (11) och sexkantmutter M10 (12).
4. Stålvajern (13) fästes vid växlarer (14) med kaus D8 (15) och vajerlås D6.5 (16) så, att vajern från höger markör löper till växlarers vänstra del och vajern från vänster markör till den högra delen.
5. Växlarer (14) fästes med plåtar (17), brickor (18) och sexkantmuttrar (19) vid kombimaskinens ram så, att växlarers bakre skydd kommer mellan plåtarna (17) och ramen.
6. Fästena (20) (OBS höger och vänster) monteras på låda framhörn med sexkantskruv M10x20 (21) fjäderbricka M10 (22) och sexkantmutter M10 (23).
7. Vajerns (13) enda fästes i markörarmen (5) med kaus (15) och vajerlås D6,5 (16).
8. Lösgör dubbelnippeln (24) som sitter på kombimaskinens hydraulslang och ersätt den med en T-nippel (25), vid vars sidouttg fästes nippel (26), ventil (27) samt den från skiftaren kommande hydraulslangen.
9. Markörernas lyfthastighet ställs in med hjälp av ventilen.
(OBS! Ventilen bör vara öppen endast litet.)
10. Passande längd inställes på markörarmarna varefter dessa låses med fästskruvar (28) och låsmuttrar (29).
11. Vajerns längd och fästpunkt på markörarmen justeras så, att markören kan sänkas tillräckligt och att tallriken då markören är upplyft kommer innanför hjulets ytterkant (nästan lodrätt).
12. Växlarers (12) främre skydd (30) fästes på sin plats med bricka M8 (31) och vingmutter M8 (32).
13. Markörerna låses för transport i upprätt position med sprint (33).

Om man vid sådd kör runt åkern, går det att använda endast en markör. En tapp (34) placeras i växlarer (12) så, att växlarers spakar går över tappen (34) varvid ingen växling sker. Tappen (34) låses med en ringsprint (35).



HYDRAULIC ROW MARKERS

Row markers help to drill without overlapping runs.

The function of the row markers is automatic when lifting and lowering the drill. The automatic switch operates in turn the right and left marker when the drill is lifted.

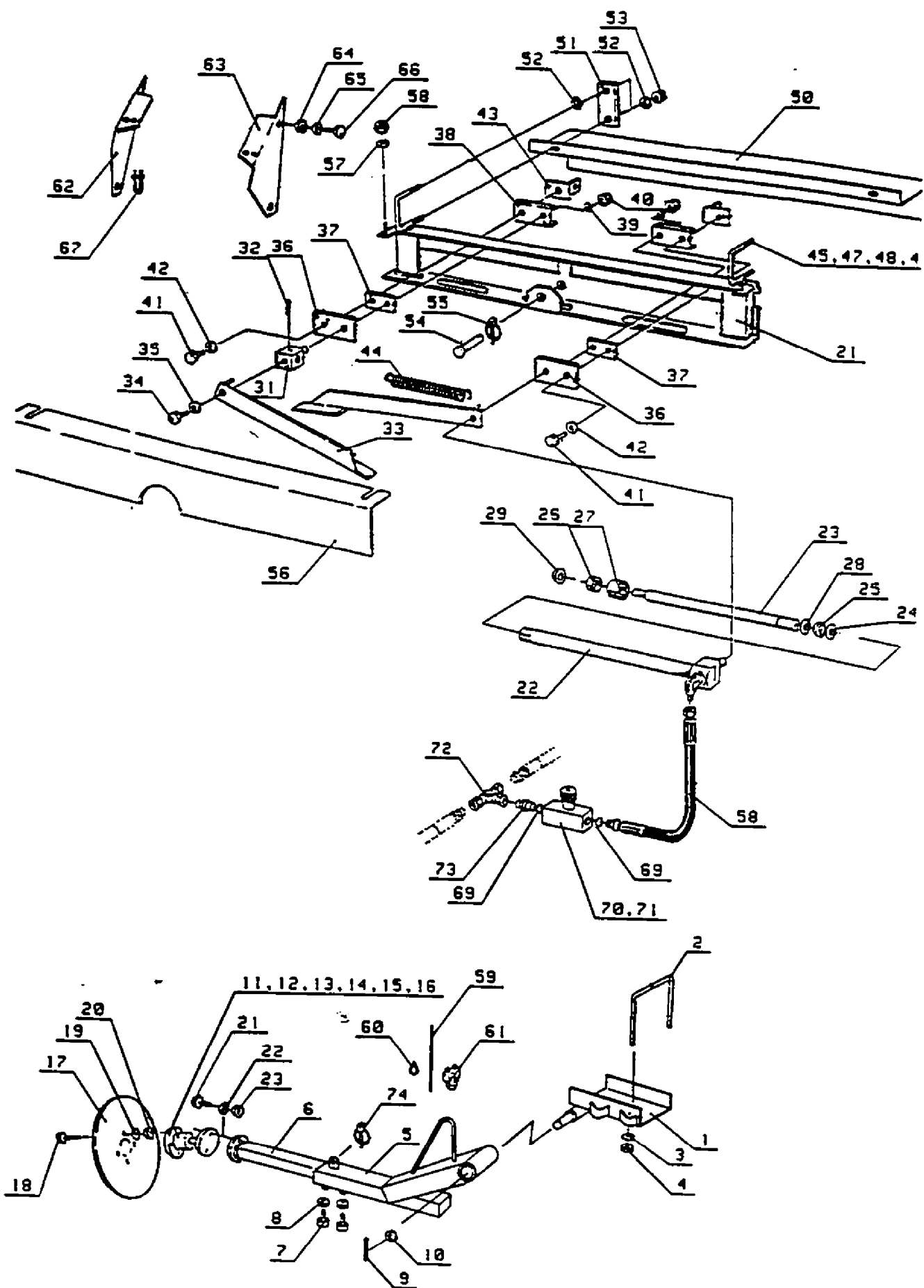
If desired the use of only one marker is possible.

Mounting instructions

The hydraulic switch is placed inside the framework for pulling, and the marker arms at the front corners of the frame bar.

1. Mount the marker frame (1) (NOTE! right and left) on the drill frame using U-bolts (2), washers M12 (3) and hexagon nuts M12 (4).
2. Mount the arm (5) on the marked frame using pins (6) and washers (7).
3. Fasten the disc (8) to the adjusting tube (9) with hexagon screws M10x25 (10), washers M10 (11) and hexagon nuts M10 (12).
4. Fast the wire ropes (13) to the switch (14) using thimbles D8 (15) and wire rope grips D 6,5 (16) so, that the wire rope of the right hand marker is fastened to the left hand side of the switch, and the wire rope of the left hand marker to the right hand side.
5. Mount the switch (14) to the drill frame using plates (17), washers (18) and hexagon nuts (19) so, that the rear guard of the switch is fastened between the plates (17) and the frame.
6. Mount the brackets (20) (NOTE! right and left) on the front corners of the opper with hexagon screws M10x20 (21), spring washers (22) and hexagon nuts M10 (23).
7. Fasten the end of the wire (13) rope to the marker frame (5) using the thimble (15) and the wire rope grip Ø 6,5 (16).
8. Replace the adaptor (24) on the hydraulic hose of the drill by a T-adaptor (25) and adaptor (26), adjusting valve (27) and the hydraulic hose from the switch (12) to the side outlet.
9. Regulate the lifting speed of the markers from the adjusting valve until it is suitable. (NOTE! The valve should be only slightly open.)
10. Adjust the length of the marker arms and lock with fixing screws (28) and locking nuts (29).
11. Adjust the length and the position of the wire rope on the marker so, that the marker is let down far enough to make a good mark, and when lifted the disc will be inside the outer side of the wheel (almost straight up).
12. Fasten the front guard (30) of the switch (12) using washer M8 (31) and wing nut M8 (32).
13. For transport the row markers are locked in upright position with a pin (33).

If going around the field when drilling, it is possible to use only one marker. In that case a pin (34) should be placed in the switch so, that the switch levers are passing over the pin when no change will take place. The pin (34) is locked with a linch pin (35).

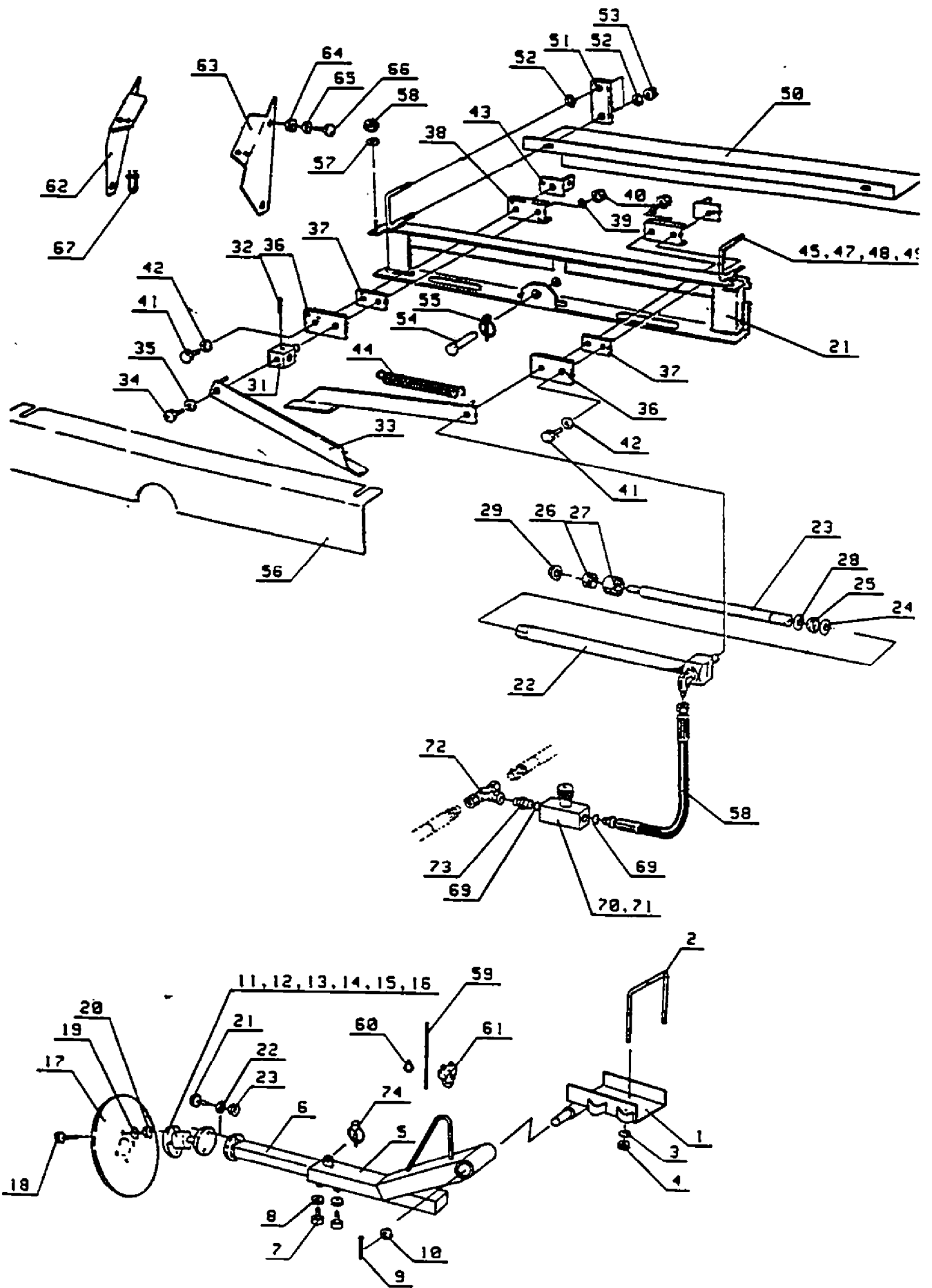


Juko-hinattava kylvöannoitin H/H2500
 -bogserad kombimaskin H/HT3000
 -trailed combination placement drill H/ HT4000

X-6037A
 1893

Viite Bild Item	Til.n:o Best.nr Part no	RIVINMERKITSIN	RADMARKÖR	ROW- MARKER	Kpl/yksikkö Antal/enhet Qty/unit 2,5 3,0 4,0		
1	42838	Runko, oikea	Ram, höger	Frame, right	1	1	1
1	42839	Runko, vasen	Ram, vänster	Frame, left	1	1	1
2	42851	U-pultti M12	U-bult	U-bolt	4	4	4
3	10462	Aluslaatta M12	Bricka	Washer	8	8	8
4	30968	Kuusiomutteri M12	Sexkantmutter	Nut, hex.	8	8	8
5	42841	Varsi	Skaft	Arm	2	2	2
6	41146	Säätöputki	Reglerskaft	Adjusting tube	2	2	2
7	30522	Kuusioruuvi M12x35	Sexkantskruv	Screw, hex.	4	4	4
8	30968	Kuusiomutteri M12	Sexkantmutter	Nut, hex.	4	4	4
9	57244	Neulasokka D4,5	Nålsprint	Needle pin	2	2	2
10	30167	Laatta 35.5x50x3	Bricka	Washer	2	2	2
11	42143	Akseli	Axel	Axle	2	2	2
12	41115	Napa	Nav	Hub	2	2	2
13	27458	Laakeriholkki	Lagerholk	Bearing bush	2	2	2
14	31193	Laatta 17,4x36x2	Bricka	Washer	2	2	2
15	10719	Pid.reng. A20x1,745	Stoppning	Circlip	2	2	2
16	30263	Voitelunippa M6	Smörjnippel	Lubric. nipple	2	2	2
17	10666	Lautanen	Tallnk	Disc	2	2	2
18	60338	Ristiuraruuvi M8x25	Krysspårskruv	Cross recessed cheese head screw	8	8	8
19	10350	Jousialuslaatta M8	Fjäderbricka	Spring washer	8	8	8
20	30969	Kuusiomutteri M8	Sexkantmutter	Nut, hex.	8	8	8
21	30958	Kuusioruuvi M10x25	Sexkantskruv	Screw, hex.	4	4	4
22	10607	Aluslaatta M10	Bricka	Washer	4	4	4
23	10760	Kuusiomutteri M10	Sexkantmutter	Nut, hex.	4	4	4
x	41113	Lisäpala	Förlängning	Extension	2	2	2
x	30958	Kuusioruuvi M10x25	Sexkantskruv	Screw, hex.	4	4	4
x	10607	Aluslaatta M10	Bricka	Washer	4	4	4
x	10760	Kuusiomutteri M10	Sexkantmutter	Nut, hex.	4	4	4
21	420854	VAIHTAJA, koottuna	SKIFTARE, kompl.	SWITCHING DEVICE, assy			
	A420854	Runko	Ram	Frame	1	1	1
22	420856	SYLINTERI, koottuna	CYLINDER, kompl.	CYLINDER, assy			
22	42856	Sylinteriputki	Cylinderrör	Cylinder tube	1	1	1
23	42857	Männänvarsi	Kolvskaf	Piston arm	1	1	1
24	42858	Urarengas PA10x20.7x7.3	Ring	Ring	1	1	1
25	42859	Ohjainrengas	Styrning	Guide ring	1	1	1
26	42860	Ulkop. pyyhkijä	Rensare	Cleaner	1	1	1
27	42861	Ohjausrengas	Styrning	Guide ring	1	1	1
28	42862	Tiivisterengas	Tätning	Seal	1	1	1
29	42863	Lukitusrengas	Stoppning	Locking ring	1	1	1
31	42555	Akseli	Axel	Axle	1	1	1
32	12238	Jousisokka D 5x32	Fjädersprint	Spring pin	1	1	1
33	42864	Varsi	Skaft	Arm	2	2	2
34	30949	Kuusioruuvi M12x25	Sexkantskruv	Screw, hex.	1	1	1
35	10462	Laatta M12	Bricka	Washer	1	1	1

X:llä merk. osat eivät ole kwassa. X märkta del. ej avbildade.



Juko-hinattava kylvölannoitin H/HT2500
 -bogserad kombimaskin H/HT3000
 -trailed combination placement drill H/HT4000

X-6037A
 1893

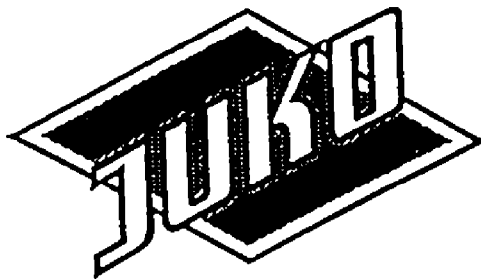
Viite Til.n:o Bild Best.nr Item Part no	RJVINMERKITSIN	RADMARKÖR	ROW-MARKER	Kpl/yksikkö Antal/enhet Qty/unit	2,5	3,0	4,0
36	42558	Laatta	Plåt	Plate	2	2	2
37	42559	Laatta	Plåt	Plate	2	2	2
38	42556	Levy	Fäste	Fixing plate	2	2	2
39	30887	Aluslaatta M16	Bricka	Washer	2	2	2
40	30124	Kuusiomutteri M16	Sexkantmutter	Nut, hex.	2	2	2
41	30952	Kuusioruuvi M12x30	Sexkantskruv	Screw, hex.	2	2	2
42	10462	Aluslaatta M12	Bricka	Washer	2	2	2
43	42557	Kiinnityskappale	Fäste	Bracket	2	2	2
44	42569	Vetojousi	Dragfjäder	Tension	2	2	2
45	42854	Kiinnityskappale, vasen	Fäste, vänster	Bracket, left	1	1	1
46	42855	Kiinnityskappale, oikea	Fäste, höger	Bracket, right	1	1	1
47	53363	Kuusioruuvi M8x20	Sexkantskruv	Screw, hex.	6	6	6
48	10784	Aluslaatta M8	Bricka	Washer	6	6	6
49	57550	Lukkõmutteri M8	Låsmutter	Nut, locking spring	6	6	6
50	42590	Suoja	Skydd	Guard	1	1	1
51	42575	Laatta	Plåt	Plate	1	1	1
52	10462	Aluslaatta M12	Bricka	Washer	2	2	2
53	56448	Lukkõmutteri M12	Låsmutter	Locking nut	4	4	4
54	42812	Akselitappi	Axeltapp	Axle pin	4	4	4
55	90265	Rengassokka D 8	Ringsprint	Linch pin	1	1	1
56	42590	Suoja	Skydd	Guard	1	1	1
57	10784	Aluslaatta M8	Bricka	Washer	1	1	1
58	30969	Kuusiomutteri M8	Sexkantmutter	Nut, hex	2	2	2
59	37924	Teräsköysi l=2900	Stålvajer	Steelwire	2	2	2
60	27530	Koussi Ø8	Kaus	Thimble	4	4	4
61	30196	Vaijerilukko Ø 6,5	Vaijerlås	Wire rope	1	1	1
62	42800	Korvake, vasen	Fäste, vänster	Bracket, left	1	1	1
63	42801	Korvake, oikea	Fäste, höger	Bracket, right	1	1	1
64	40702	Kuusioruuvi M10x20	Sexkantskruv	Screw, hex	4	4	4
65	10153	Jousialuslaatta M10	Fjäderbricka	Spring washer	4	4	4
66	10760	Kuusiomutteri M10	Sexkantmutter	Nut, hex.	4	4	4
67	54657	Vaijerilukko Ø 3/8"	Vaijerlås	Wire lock	4	4	4
68	87811	Paineletku L=500	Tryckslang	Pressure hose	2	2	2
69	87830	USIT-tiiviste	USIT-tätning	USIT-seal	1	1	1
70	42865	Vastusvastaventt. 9F-400S	Flådesventil	Adjusting valve	2	2	2
71	42866	Virtauksen rajoitin	Strömbergänsare	Restrictor	1	1	1
72	41833	T-nippa R 3/8	T-nippel	T-adaptor	1	1	1
73	61816	Yhdysnippa R1/4xR3/8	Nippel	Nipple	1	1	1
74	90265	Rengassokka Ø8	Ringsprint	Ring pin	1	1	1

OG-010001...1500-5105 H3000
 1700-5051...5100 HT3000

1F-11001...1400-5062 H2500
 1600-5011...5019 HT2500

1	57630	T-yhde	T-nippel	Connector T	1		
2	41815	Putkinippa Ø15-R1/2"	Rörnippel	Rörnipple	1		
3	41853	Supistusliitin R1/2"-R1/4"	Förminsk.koppling	Connector	1		
4	87830	Usit-tiiviste	Usit-tätning	Usit-seal	1		

X:llä merk. osat eivät ole kuvassa. X märkta del. ej avbildade.



OY JUKO LTD

OPINTIE 4

FIN-23100 MYNÄMÄKI

FINLAND



FAX:

INT+358+(0)2-4393200

INT+358+(0)2-4393210