



***Operating Instructions
Declaration of Conformity
Spare Parts List***

Front-Pakker

1.5 m / 1.65 m / 2.6 m / 3.0 m / 4.0.m (rigid)

4.0 m / 6.0 m (hydraulic)



Important: Before using the machine, please study the Operating Instructions thoroughly to ensure that you are familiar with the safety instructions.



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EC DECLARATION OF CONFORMITY

in accordance with the EU Machinery Directive 2006/42/EC
applicable as from December 29th 2009:

HE-VA ApS
N. A. Christensensvej 34,
DK-7900 Nykøbing Mors

hereby confirms that the following machine has been manufactured in accordance with the
Council Directive 2006/42/EC.

The declaration comprises the following machine:

Front-Pakker 1,5m - 1,65m - 2,6m - 3,0m - 4,0m - 6,0m

Nykøbing the 29th December 2009

A handwritten signature in black ink, appearing to read "Villy Christiansen".
Villy Christiansen

The undersigned is furthermore authorised to compile technical documentation for the above machine.

Delivery Check

Upon delivery to the dealer/supplier as well as to the customer, check the Front-Pakker for possible damages.

Machine Description

Range of Application

The Front-Pakker is a front-mounted packer for land packing in connection with preparation of the seedbed and seeding with combi-harrow, rotor-harrow, tine rotary cultivator etc. The Front-Pakker may be applied on all types of soil, however, is suitable for medium-heavy and heavy soil types.

The Front-Pakker is mounted in the Front-lift of the tractor. If the Front-lift is equipped with double-acting hydraulics, it is possible to transfer weight from the tractor onto the Front-Pakker. In order to achieve optimum control in connection with the transfer of the weight from the tractor to the packer, the Front-Lift should be equipped with spring suspension in order to achieve a flexible connection between the tractor and the packer. Furthermore, the tractor should be with four-wheel drive.

As extra equipment, the Front-Pakker may be equipped with Front-Harrow or Spring-Board as well as carriers for additional weights.

Technical specifications

	1.5 m	1.6 m	2.6 m	3.0 m	4.0 m	4.0 m hydr.	6.0 m hydr.
Working width	1.50 m	1.65 m	2.60 m	3.00 m	4.00 m	4.00 m	6.00 m
Total width	1.73 m	1.88 m	2.74 m	3.08 m	4.23 m	4.30 m	6.23 m
Transport width	1.73 m	1.88 m	2.74 m	3.08 m	4.23 m	2.74 m	3.02 m
Length	1.68 m	1.68 m	1.68 m	1.68 m	1.68 m	1.68 m	2.10 m
Height folded.....						2.05 m	2.86 m

Weight without extra equipment

Land packer rings Ø700	680 kg	866 kg	980 kg	1280 kg	1430 kg	1875 kg
Land packer rings Ø800	890 kg	1230 kg	1420 kg	1840 kg	1990 kg	2695 kg
Land packer rings Ø900	1140 kg	1685 kg	1940 kg	2415 kg	2580 kg	
Land packer rings 700/800/700.....		1160 kg	1460 kg	1610 kg	2095 kg	
Land packer rings 800/900/800.....		1610 kg	2030 kg	2180 kg		
Additional weight Front-Harrow	158 kg	177 kg	254 kg	275 kg	397 kg	
Additional weight Spring-Board.....	185 kg	205 kg	260 kg	460 kg	570 kg	
Height unfolded Ø700/800/900	1.40 m	1.45 m	1.50 m			

Maximum weight transfer from tractor..... 800 kg
Noise level.....under 70 dB (A)
Oil outlet - Spring-Board1 double-acting outlet at the front of the tractor

The Front-Pakker complies with DS/ISO 8759/2, Front - Three-point suspension (Category 2).

Distance between the lift arms (balls) is 825 mm.

Operating Instructions

Start-up

Front-Pakker

The length of the top link is to be adjusted so that the packer is horizontal in working position.

In sharp turns, e.g. in connection with turning at the ends and reversing, the Front-Pakker must be lifted.

When the packer is mounted in a HE-VA Front-Lift with spring suspension, the following applies:

When transferring weight from the tractor onto the packer, you will get the best combination of packing and control when the Front-lift manometer shows 35-60 bar (depending on the weight of the tractor).

Front-Harrow

Before adjusting the working depth, make sure that the packer runs horizontally. The two spindles must be synchronised, i.e. one spindle may as a maximum be turned 5 turns before the other spindle is turned the corresponding number of turns in the same direction. For each turn of the handle, the front-harrow is lifted/lowered 5 mm.

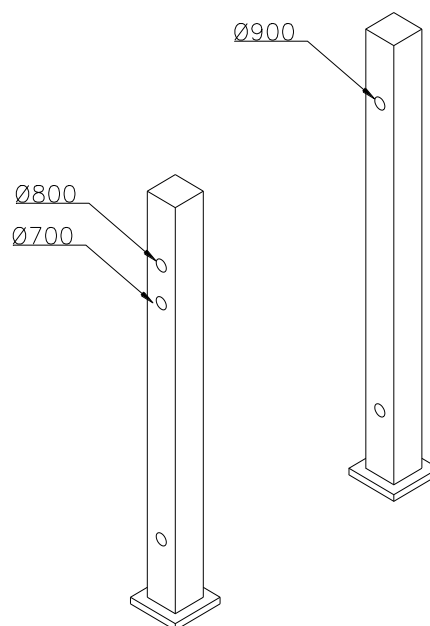
Spring-Board

The Spring-board requires a double-acting oil outlet at the tractor. The tine angle is hydraulically controlled from the driver's cab and the depth control is made manually. The tines work independent of each other, however, they may be connected by means of a transverse locking system (extra equipment), if a greater levelling effect is required. The change-over is made easily and quickly without any tools.

Un- and coupling

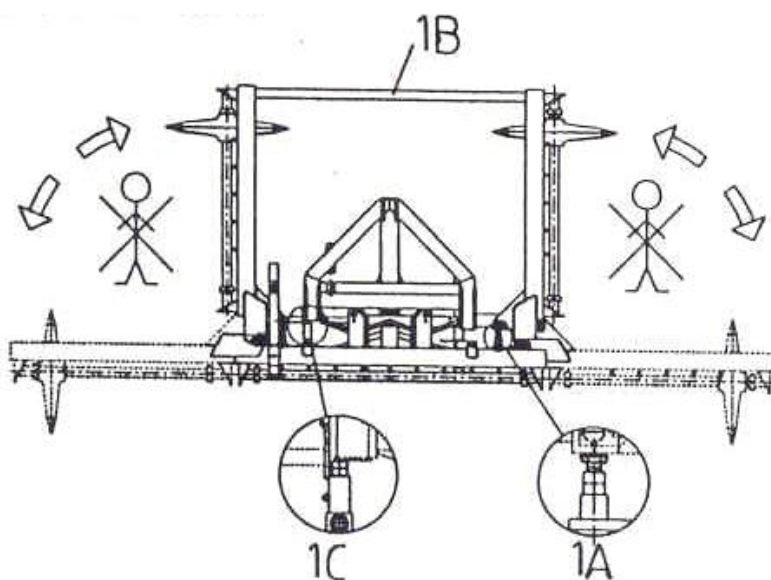
The Front-Pakker is equipped with 2 supporting legs which must be lowered when the machine is uncoupled. The ring type determines which hole is to be used.

Before uncoupling, a possible mounted Spring-Board must be lifted and the hydraulic system is to be de-pressurized. Furthermore, the Front-Harrow must be lifted so that the weight of the Front-Packer does not rest on the tine of the harrow but on the supporting legs.



Transport

For transport, the wing sections are to be lifted. The bolts at the cylinders are to be adjusted so that the wing sections are vertical (fig. 1A). Hereafter, the mechanical locking bar (fig. 1B) is to be mounted for reasons of failure in the hydraulic system. Moreover, the built-in transport lock must be locked, to prevent the packer from swaying around during transport (fig 1C).



Lubrication

Front-Pakker

For lubrication, maintenance and repair, the tractor must be braked and the motor stopped. The Front-Packer is to be lowered or supported properly so that the packer cannot fall in event of failure

in the front-lift's or the tractor's hydraulic system. For lubrication of the hydraulic Front-Pakkers, the wing sections have to be lowered or the mechanical locking bar has to be mounted in lifted state (see fig. 1B page 7).

The 1.5 – 3.0 m Front-Pakkers have four lubrication points, the 4.0 m rigid Front-Pakkers have 6 lubrication points, the 4.0 m hydraulic Front-Pakkers have 10 lubrication points and the 6.0 m hydraulic Front-Pakkers have 12 lubrication points. All Front-Pakkers must be lubricated after every 10 working hours as well as after the cleaning in order to press out any water and dirt. The lubrication points are located at ball bearings, supporting rollers and cylinders.

Note!

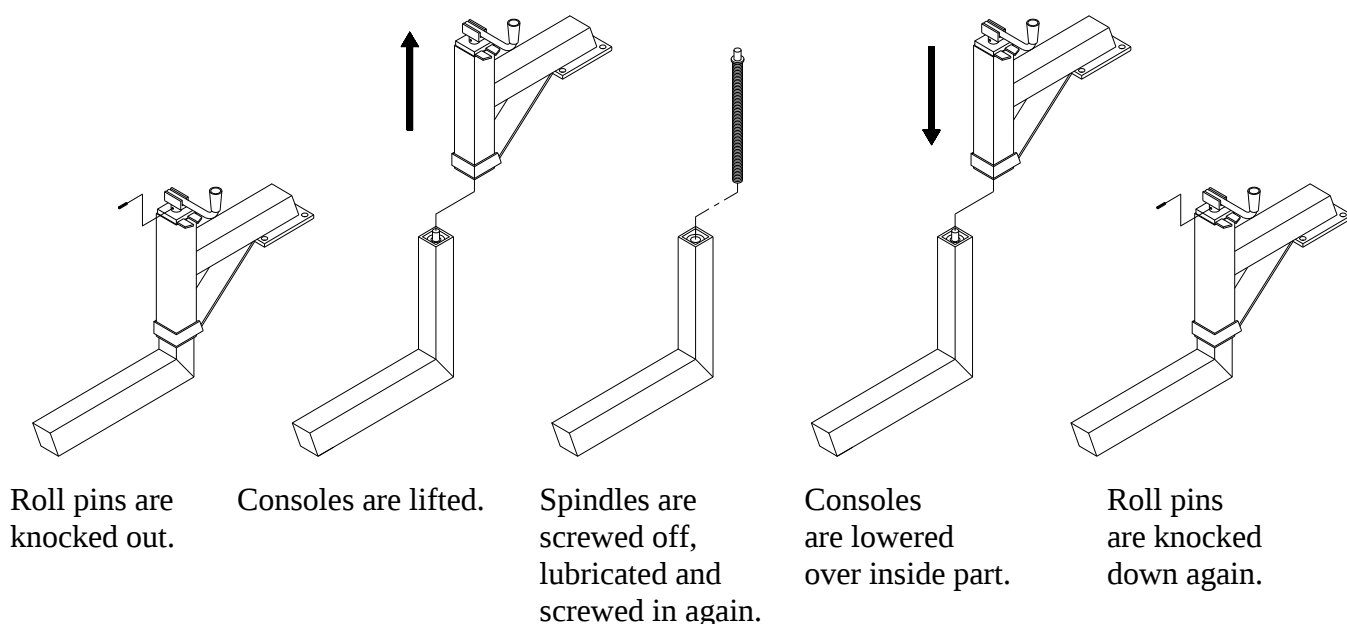
The double-sealed ball bearings should only be lubricated after every 20 working hours by 1-2 strokes so that the sealing rings are not pressed out.

Front-Harrow

The Front-Harrow's spindles are not equipped with lubrication nipples. Once a year, e.g. when the season is over and the machine is stored for the winter, the spindles should be dismantled and lubricated with ball bearing grease.

Note!

Before dismantling the Front-Harrow, the harrow points should rest on the support, otherwise the harrow will fall down when the roll pins are knocked out.



Maintenance

The entire machine

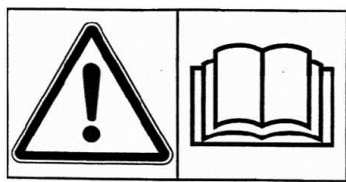
- After the first 10 hours of operation, tighten up all bolts.

- Further check on a regular basis that all bolts are tightened.
- Before the winter storage, wash and lubricate the machine. If you use high-pressure cleaner, do not spray directly on the ball bearings. After the washing, you may spray the machine with oil.
- Check regularly that all rings are whole and that there are no stones jammed in the rings.

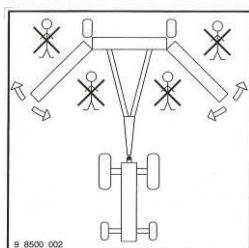
Front-Harrow/Spring-Board

- Turn/replace the points before the harrow tines show signs of wear.

Safety – and other markings on the machine



Study the Operating Instructions thoroughly before any operation of the machine and observe all safety instructions.



Take care that no persons are within the machine's hazardous area during the unfolding and folding procedure..



Plate with number and year of manufacture



Tighten up the bolts regularly. If this is not performed, our warranty obligations will no longer apply.

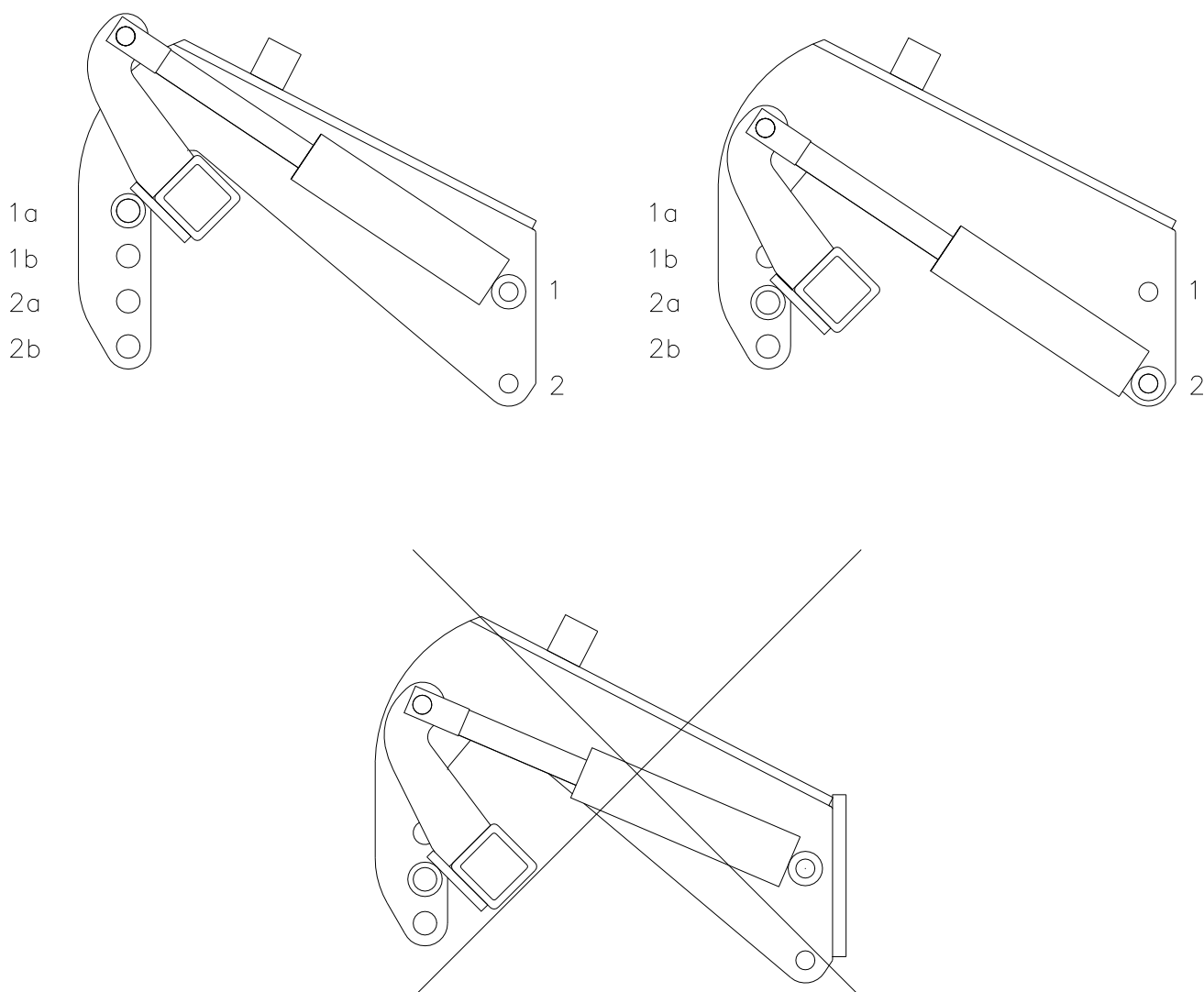
Maximum torque in Nm. w/lubricated thread			
Metric thread	Quality 8.8	Quality 10.9	Quality 12.9
M12x1,75	81	114	136
M14x2,0	128	181	217
M16x2,0	197	277	333
M18x2,5	275	386	463
M20x2,5	385	541	649
M22x2,5	518	728	874
M24x3,0	665	935	1120

Spring-Board

Mounting of Cylinder on Spring-Board

The hydraulic cylinders are mounted as shown in the below figure. It is important to have them correctly mounted in order to get the correct moment on the cylinders.

The ring type determines whether the cylinders must be mounted in hole 1 or hole 2. If the machine is equipped with 700 or 800 mm rings, the cylinders must be fitted in hole 1 and hole 1a or 1b. If the machine is equipped with 900 mm rings, the cylinders must be fitted in hole 2 and hole 2a or 2b.

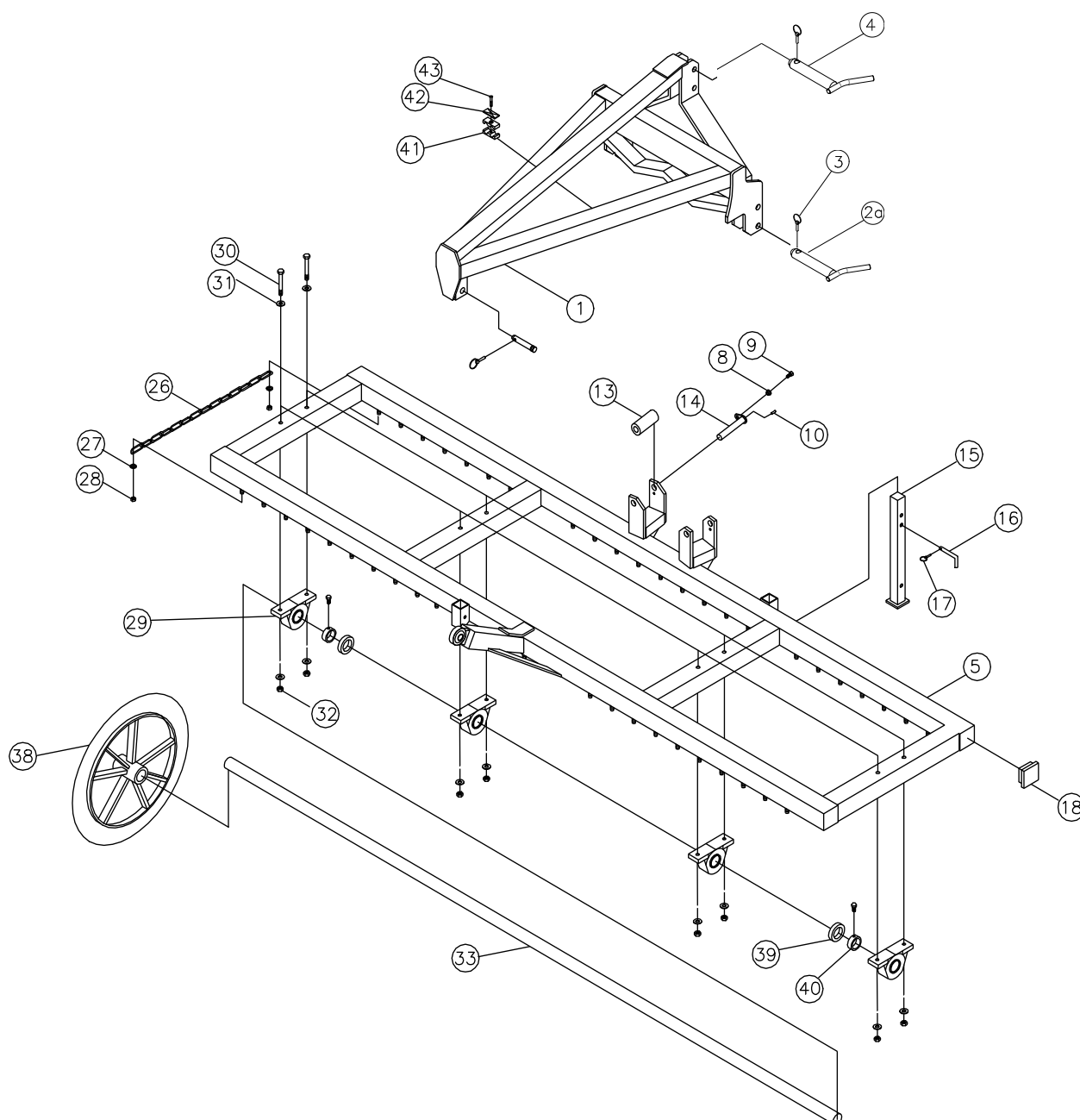


Retromounting of Front-Harrow or Spring-Board

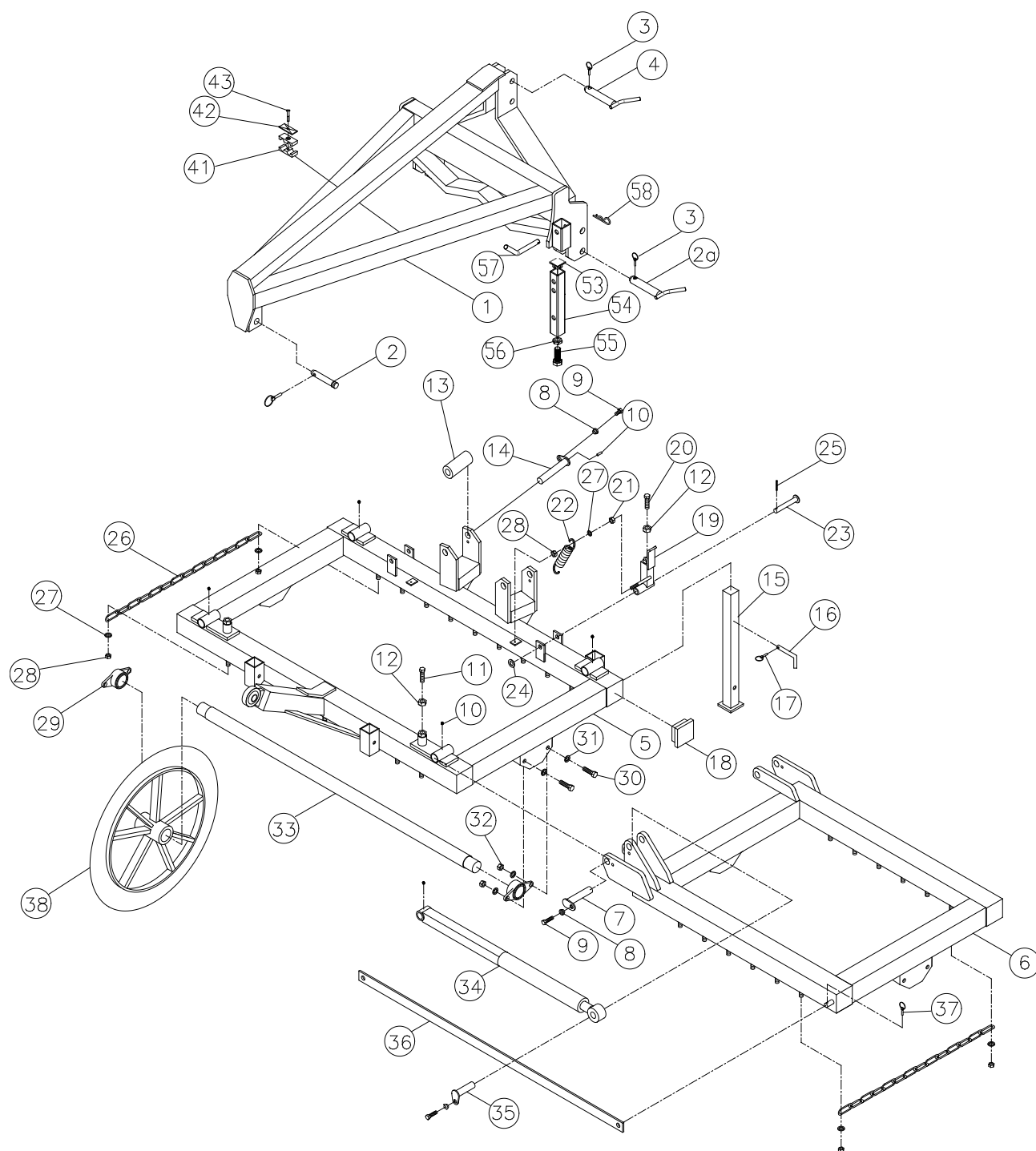
Both the Front-Harrow and the Spring-Board can be mounted directly on the frame.

Spare Parts List

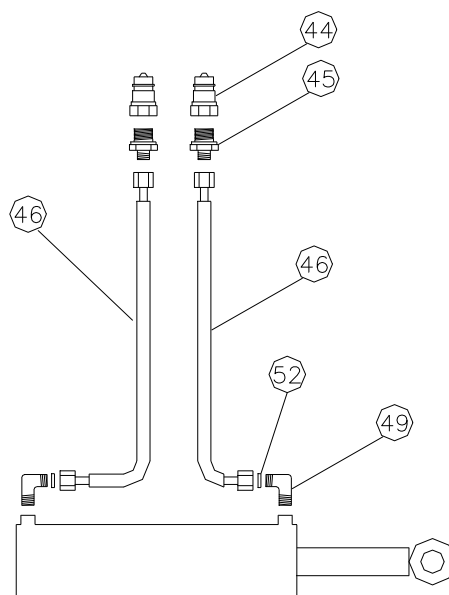
Frame 1.5 – 4.0 m (rigid)



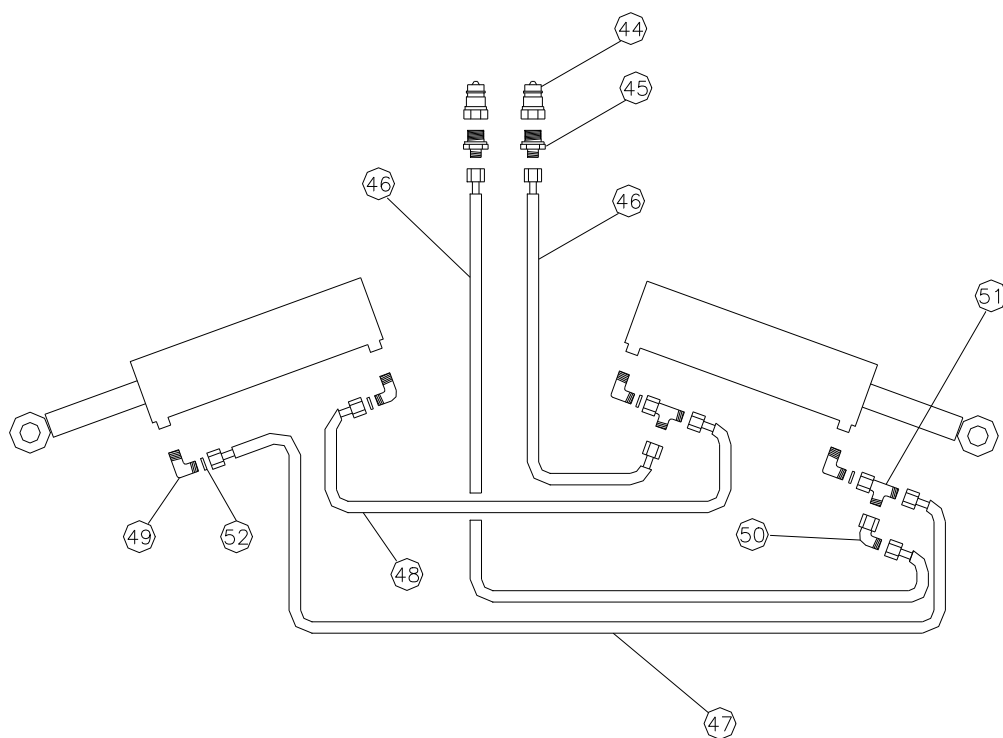
Frame 4.0 – 6.0 m (hydraulic)



Hydraulic 4.0 m (hydraulic model)



Hydraulic 6.0 m (hydraulic model)



Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
1	671100200	Top frame	1	1	1	1		
1	671151410	Top frame					1	
1	670473000	Top frame						1
2	69528096J	Pin Ø28 L=96	1	1	1	1	1	1
3	690134004	Ring pin Ø10	4	4	4	4	4	4
2a	69428105B	Pin Ø28 with handle	2	2	2	2	2	2
4	69525105B	Pin Ø25 with handle	1	1	1	1	1	1
5	671010300	Frame 1.5 m Ø700 and Ø800 mm rings	1					
5	671030500	Frame 2.6m Ø700 and Ø800 mm rings		1				
5	671050400	Frame 3.0 m Ø700 and Ø800 mm rings			1			
5	671050400	Frame 3.0 m Ø700/800/700 mm rings			1			
5	671070400	Frame 4.0 m Ø700 and Ø800 mm rings				1		
5	671070400	Frame 4.0 m Ø700/800/700 mm rings				1		
5	671150600	Middle section 4.0 m (hydr.) Ø700 and Ø800 mm rings					1	
5	671150600	Middle section 4.0 m (hydr.) Ø700/800/700 mm rings					1	
5	670471000	Middle section 6.0 m (hydr.) Ø700 and Ø800 mm rings						1
5	670471000	Middle section 6.0 m (hydr.) Ø700/800/700 mm rings						1
5	670430600	Frame 1.65 m Ø900 mm rings	1					
5	670440600	Frame 2.6 m Ø900 mm rings		1				
5	670450600	Frame 3.0 m Ø900 mm rings			1			
5	670450600	Frame 3.0 m Ø800/900/800 mm rings			1			
5	670460600	Frame 4.0 m Ø900 mm rings				1		
5	670460600	Frame 4.0 m Ø800/900/800 mm rings				1		
5	670470400	Middle section 4.0 m (hydr.) Ø900 mm rings					1	

Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
5	670470400	Middle section 4.0 m (hydr.) Ø800/900/800mm ringe					1	
6	671150500	Wing section (R)4.0m(hydr.) Ø700 and Ø800 mm rings					1	
6	671150510	Wing section (L)4.0m(hydr.) Ø700 and Ø800 mm rings					1	
6	671150500	Wing section(R)4.0m(hydr.) Ø700/800/700 mm rings					1	
6	671150510	Wing section (L)4.0m(hydr.) Ø700800/700 mm rings					1	
6	670472000	Wing section (R)6.0m(hydr.) Ø700 and Ø800 mm rings						1
6	670472010	Wing section (L)6.0m(hydr.) Ø700 and Ø800 mm rings						1
6	670472000	Wing section (R)6.0m(hydr.) Ø700/800/700 mm rings						1
6	670472010	Wing section (L)6.0m(hydr.) Ø700/800/700 mm rings						1
6	670470100	Wing section (R)4.0m(hydr.) Ø900 mm rings					1	
6	670470110	Wing section (L)4.0m(hydr.) Ø900 mm rings					1	
6	670470100	Wing section (R)4.0m(hydr.) Ø800/900/800 mm rings					1	
6	670470110	Wing section (L)4.0m(hydr.) Ø800/900/800 mm rings					1	
7	69530145G	Pin Ø30 L=145					4	4
8	630532600	Lock bush f/pin head	2	2	2	2	10	10
9	690101101	Bolt M12x25	2	2	2	2	10	10
10	690136029	Lubricating nipple M8	2	2	2	2	6	6
11	690103146	Bolt M20x55 (set screw)					2	2
12	690112009	Nut M20 (lock nut)					4	4
13	671000100	Supporting roller f/ rolling console	2	2	2	2	2	2
14	69530175I	Pin Ø30 L=175	2	2	2	2	2	2
15	671000300	Supporting leg (Ø700/Ø800 mm)	2	2	2	2	3	3
15	670430300	Supporting leg (Ø900 mm rings)	2	2	2	2	3	
16	69516094A	Pin Ø16 L=94	2	2	2	2	3	3
17	690133005	Hairpin Ø4	2	2	2	2	3	3

Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
18	690109204	Plastic plug 100x100	4	4	4	4	4	
19	671151300	Transport lock (R) Ø700/Ø800 mm rings					1	1
19	671151301	Transport lock (L) Ø700/Ø800 mm rings					1	1
19	670471300	Transport lock (R) Ø900 mm rings					1	
19	670471301	Transport lock (L) Ø900 mm rings					1	
20	690101164	Bolt M20x60 (set screw)					2	2
21	690112006	Nut M12					2	2
22	690139002	Tension spring 3.5x30x160					2	2
23	69520118F	Pin Ø20 L=118					2	2
24	690117005	Facet plate Ø20					2	2
25	690132037	Split-pin Ø5x40					2	2
26	670470705	Chain 1020 mm (Ø700/800 mm rings)	9	13	15	21	21	34
26	670470707	Chain 1100 mm (Ø900 mm rings)	9	12	14	20	21	0
27	690117014	Facet plate Ø12	18	26/24	30/28	42/40	44	70
28	690113006	Self-locking nut M12	18	26/24	30/28	42/40	44	70
29	690140803	Bearing UCP 212 (Ø60)	2	2	2	4		
29	690140080	Bearing UCFL 209 (Ø45)					6	6
30	690103191	Bolt M16x150	4	4	4	8		
30	690103140	Bolt M16x50					12	12
31	690117013	Facet plate Ø16	8	8	8	16	24	24
32	690113008	Self-locking nut M16	4	4	4	8	12	12
33	678611730	Axle 1730 mm Ø60 f/ Ø700 mm rings and Ø800 mm rings	1					
33	678611880	Axle 1880 mm Ø60 f/ Ø900 mm rings	1					
33	678612720	Axle 2720 mm Ø60 f/ Ø700 mm rings and Ø800 mm rings		1				

Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
33	678612735	Axle 2735 mm Ø60 f/ Ø900 mm rings		1				
33	678613050	Axle 3050 mm Ø60 f/ Ø700 mm rings Ø800 mm rings Ø900 mm rings Ø700/800/700 mm rings Ø800/900/800 mm rings			1			
33	678614210	Axle 4210 mm Ø60 f/ Ø700 mm rings Ø800 mm rings Ø900 mm rings Ø700/800/700 mm rings Ø800/900/800 mm rings				1		
33	678621696	Axle 1696 mm Ø60 Middle section f/ Ø700 mm rings Ø800 mm rings Ø900 mm rings Ø700/800/700 mm rings Ø800/900/800 mm rings					1	
33	678621220	Axle 1220 mm Ø60 Wing section f/ Ø700 mm rings Ø800 mm rings Ø900 mm rings Ø700/800/700 mm rings Ø800/900/800 mm rings					2	
33	678681994	Axle 1994 mm Ø60 (CrNiMo6) Middle section f/ Ø700 mm rings Ø800 mm rings						1
33	678682032	Axle 2032 mm Ø60 (CrNiMo6) Wing section f/ Ø700 mm rings Ø800 mm rings						2
34	671150400	Cylinder 70/40x500 (lengthened)					1	
34	690200301	Cylinder 80/40x400 (R)						1
34	690200300	Cylinder 80/40x400 (L)						1
34a	690200062	Piston rod 70/40x500					1	
34a	690200047	Piston rod 80/40x400						2
34b	690200061	Cylinder tube 70/40x500					1	

Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
34b	690200049	Cylinder tube 80/40x400						2
34c	690200063	Piston 70/40					1	
34c	690200133	Piston 80/40						2
34d	690200067	Guide bush 70/40					1	
34d	690200136	Guide bush 80/40						2
34e	690200068	Gasket set 70/40					1	
34e	690200138	Gasket set 80/40						2
35	69430107G	Pin Ø30 L=107					4	
35	69430145G	Pin Ø30 L=145						4
36	671150002	Locking bar					1	
36	670472001	Locking bar						1
37	690134001	Ring pin Ø4.5					2	2
38	690150048	Land packer ring Ø700 mm rings (Ø60)	10	16	18	24	24	36
38	690150015	Land packer ring Ø800 mm rings (Ø60)	10	16	18	24	24	36
38	690150016	Land packer ring Ø900 mm rings (Ø60)	10	14	17	23	21	
38	690150048 690150015	Land packer ring Ø700/800/700 mm rings (Ø60)			18	24	24	36
38	690150015 690150016	Land packer ring Ø800/900/800 mm rings (Ø60)			17	23	21	
39	690600002	Distance bush 2 mm Ø700 and Ø800 mm rings			2			
39	671040300	Distance bush 10 mm Ø700 and Ø800 mm rings		2				
39	690600015	Distance bush 15 mm Ø700 and Ø800 mm rings			2			
39	690600020	Distance bush 20 mm Ø700 and Ø800 mm rings	2	4	6	4		
39	671080200	Distance bush 75 mm Ø700 and Ø800 mm rings				2		
39	690600012	Distance bush 12 mm Ø900 mm rings	2					
39	690600015	Distance bush 15 mm Ø900 mm rings			2	2		
39	690600020	Distance bush 20 mm Ø900 mm rings		2	2	2		

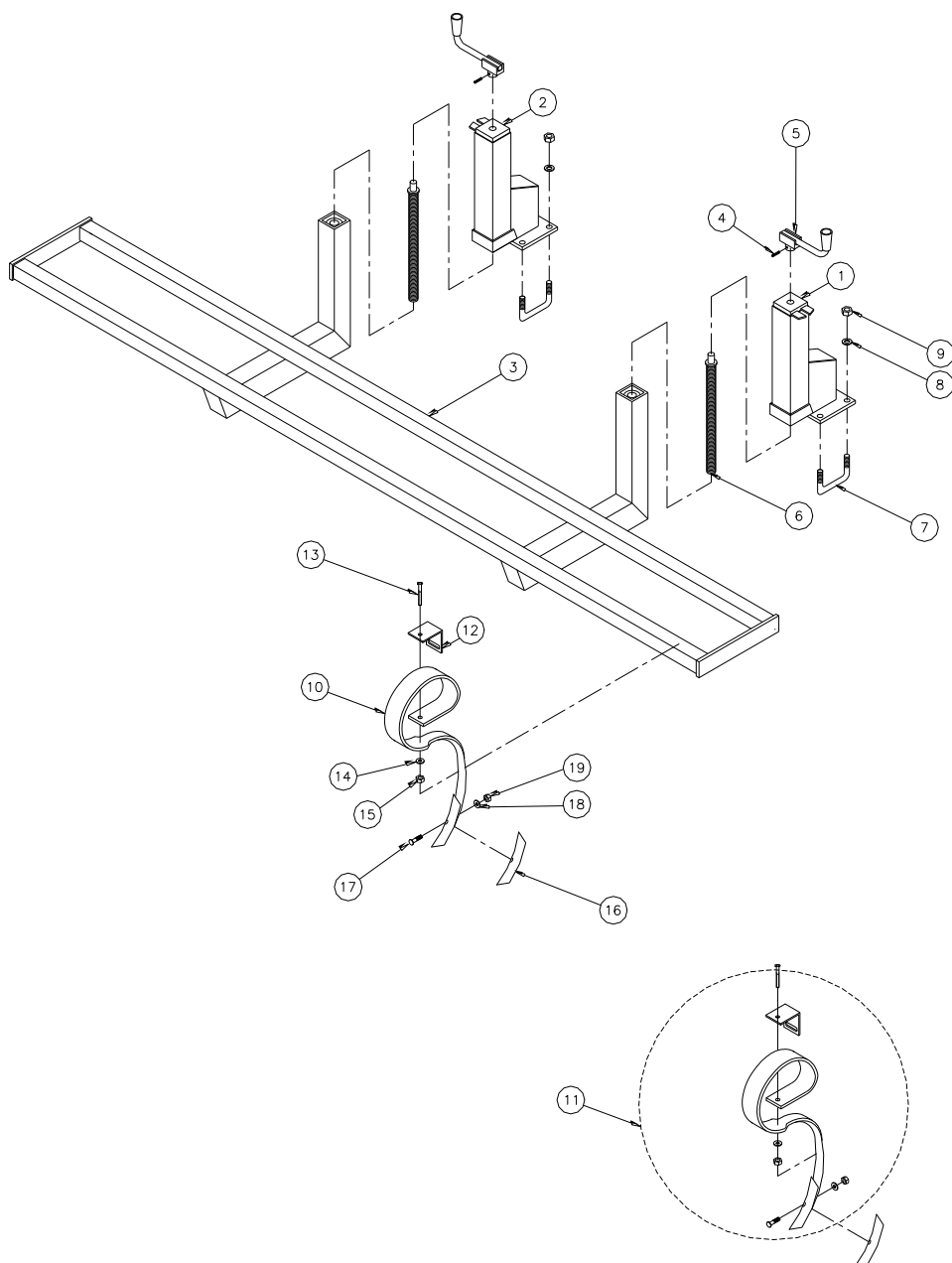
Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
39	690600035	Distance bush 35 mm Ø900 mm rings		2				
39	690600002	Distance bush 2 mm Ø700/800/700 mm rings			2			
39	690600015	Distance bush 15 mm Ø700/800/700 mm rings			2			
39	690600020	Distance bush 20 mm Ø700/800/700 mm rings			6	4		
39	671080200	Distance bush 75 mm Ø700/800/700 mm rings				2		
39	690600015	Distance bush 15 mm Ø800/900/800 mm rings			6	12		
39	690600020	Distance bush 20 mm Ø800/900/800 mm rings			2	2		
39	690600032	Distance bush 32 mm Ø800/900/800 mm rings			2	2		
40	671040400	Stop ring w/bolt 20 mm Ø700 and Ø800 mm rings	2					
40	630651200	Stop ring w/bolt 27 mm Ø900 mm rings	2					
40	671040400	Stop ring w/bolt 20 mm Ø700/800/900 mm rings		2	2	2		
41	690210210	Tube-support double Ø14/Ø14					4	4
42	690210211	Top plate f/double tube-support					2	2
43	690103054	Bolt M8x40					2	2
44	690203001	Quick coupling ½" E402, male					2	2
45	690203003	Fitting, straight 10-1/2" BSP					2	2
46	690201060	Hydr. hose 3000 mm ¼"					2	2
47	690201055	Hydr. hose 1010 mm ¼"						1
48	690201051	Hydr. hose 250 mm ¼"						1
49	690203006	Fitting, 90angle 10-3/8" BSP					2	4
50	690203016	Fitting, 90angle 10 mm premounted w/O-ring						1
51	690203120	Fitting, T10L, premounted w/O- ring						2
52	690207901	Restrictor 1 mm					2	2
53	690109209	Plastic plug 40x40x2, black					2	2
54	671100212	Security bracket					2	2

Pos	Item no.	Designation	1.5/ 1.65	2.6	3.0	4.0	4.0 m (hydr.)	6.0 m (hydr.)
55	690103160	Bolt M20x60 8.8 setbolt					2	2
56	690112016	Locknut M20					2	2
57	69516094A	Pin Ø16 L=94					2	2
58	690133005	Hairpin Ø4					2	2

Note: Check number and measurements of all hoses before ordering the spare parts.

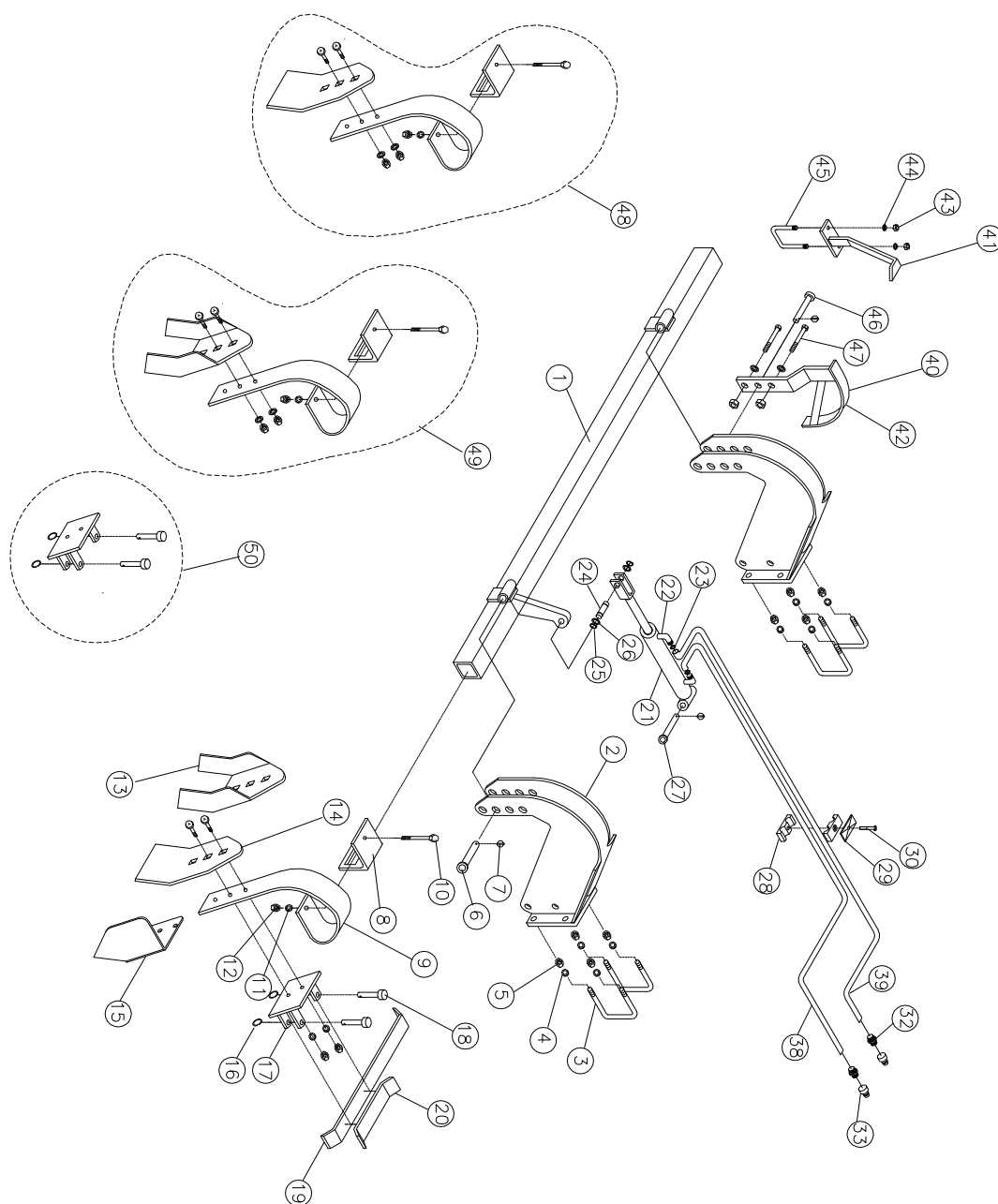
Spare Parts List – Extra Equipment

Front-Harrow

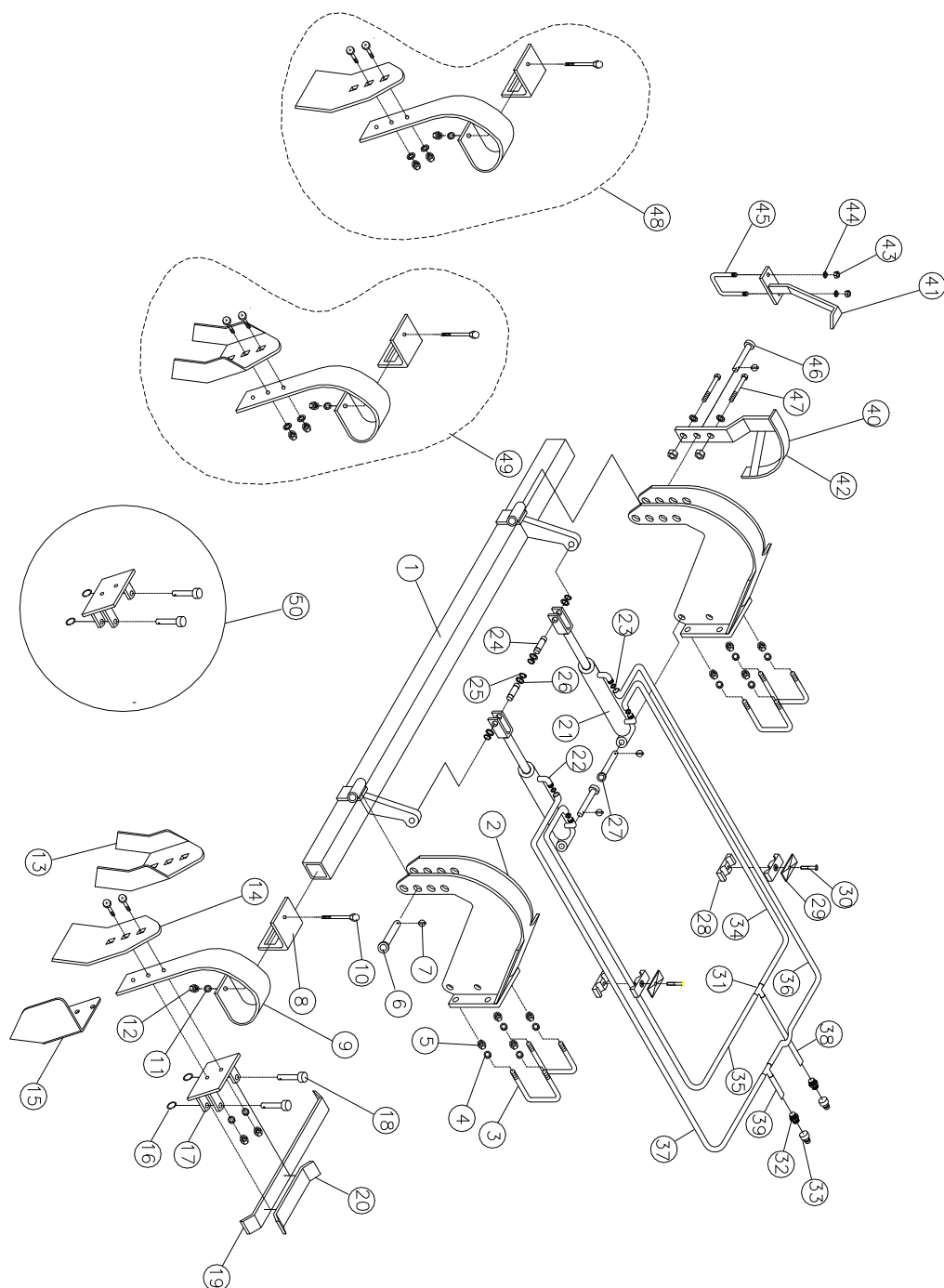


Pos.	Item no.	Designation	2.6 m	3.0 m	4.0 m	4.0 m hydr.	6.0 m hydr.
1	671090100	Spindle console (right)	1	1	1	3	3
2	671090200	Spindle console (left)	1	1	1	3	3
3	631305100	Frame 2.6 m	1				
3	631315100	Frame 3.0 m		1			
3	631325100	Frame 4.0 m			1		
3	631345100	Middle section 4.0 m hydr.				1	
3	631335100	Middle section 6.0 m hydr.					1
3	631345101	Wing section 4.0 m hydr. (right)				1	
3	631345102	Wing section 4.0 m hydr. (left)				1	
3	631335101	Wing section 6.0 m hydr. (right)					1
3	631335102	Wing section 6.0 m hydr. (left)					1
4	690130158	Roll pin Ø8x30	2	2	2	6	6
5	690304102	Crank	2	2	2	6	6
6	690304101	Spindle TR28x5 L=410	2	2	2	6	6
7	690110101	U-bolt M16x100x100x100	4	4	4	12	12
8	690117013	Facet plate Ø16	8	8	8	24	24
9	690113008	Self-locking nut M16	8	8	8	24	24
10	690152024	Tine w/point 45x12 mm	15	17	23	23	35
11	690152031	Tine w/point 45x12 mm (complete)					
12	690152026	Clamp f/tine 45x12mm	15	17	23	23	35
13	690103089	Bolt M12x80	15	17	23	23	35
14	690117013	Facet plate Ø16	15	17	23	23	35
15	690113006	Self-locking nut M12	15	17	23	23	35
16	690152025	Point f/tine 45x12mm	15	17	23	23	35
17	690109102	Hoe bolt M10x45	15	17	23	23	35
18	690117012	Facet plate M10	15	17	23	23	35
19	690113005	Self-locking nut M10	15	17	23	23	35

Spring-Board 2.6 m and 3.0 m (rigid)



Spring-Board 4.0 m (rigid)



Pos.	Item no.	Designation	2.6 m	3.0 m	4.0 m
1	671840400	Bar	1		
1	671840300	Bar		1	
1	671850400	Bar			1
2	671844500	Horn	2	2	2
2	671844510	Horn from june 2010	2	2	2
3	690110101	U-bolt M16x100x100x100	4	4	4
3	690110404	U-bolt M18x100x100x100 from june 2010	4	4	4
4	690117013	Facet plate Ø16	8	8	8
4	690117015	Facet plate Ø18 from june 2010	8	8	8
5	690113008	Self-locking nut M16	8	8	8
5	690113016	Self-locking nut M18 from june 2010	8	8	8
6	69525087F	Pin Ø25 L=87	1	1	1
7	690134001	Ring pin Ø4.5	3	3	4
8	633052200	Clamp f/tine	10	12	16
9	633052050	Tine (10x80)	10	12	16
10	690103098	Bolt M12x110	10	12	16
11	690117014	Facet plate Ø12	10	12	16
12	690113006	Self-locking nut M12	10	12	16
13	633052150	Slicing plates point incl. bolts	10	12	16
14	633052100	Tine point (8x150) incl. bolts	10	12	16
15	633052250	Edge equipment (L)	1	1	1
15	633052255	Edge equipment (R)	1	1	1
16	690134000	Locking ring Ø30x3	20	24	36
17	633055500	Tine bracket f/transverse locking system	10	12	16
18	69512040K	Pin Ø12,5x40	20	24	32
19	633055710	Locking bar f/transverse locking system (long)	9	11	15
20	633055700	Locking bar f/transverse locking system (short)	2	2	2

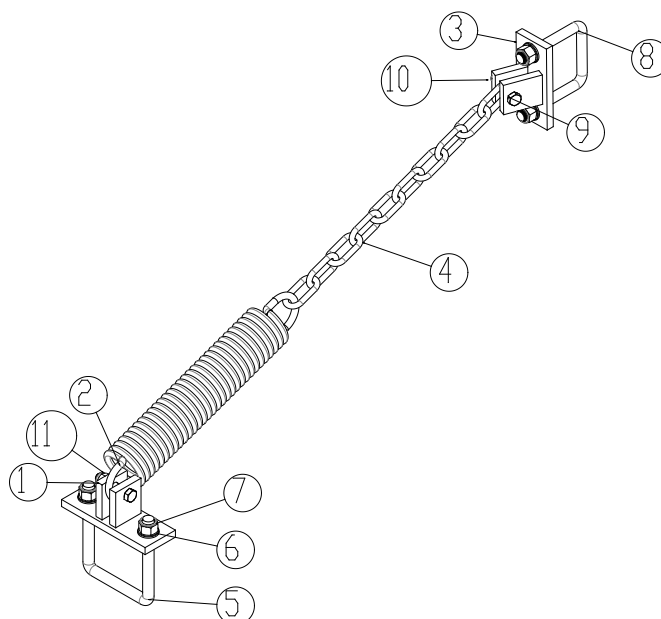
Pos.	Item no.	Designation	2.6 m	3.0 m	4.0 m
21	690200160	Cylinder 50/30x155	1	1	2
21a	690200045	Gasket 50/30			
22	690203006	Fitting, 90angle 10-3/8" BSP	2	2	4
23	690207901	Restrictor 1 mm	2	2	4
24	69520046D	Pin Ø20 L=46	1	1	2
25	691372020	Seeger circlip ring Ø20	2	2	4
26	690115010	Washer Ø20/Ø28x1mm	2	2	4
27	69520087F	Pin Ø20 L=87	1	1	2
28	690210210	Tube-support double Ø14/Ø14	4	4	6
29	690210211	Top plate f/double tube-support	2	2	3
30	690103054	Bolt M8x40	2	2	3
31	690203015	Fitting T10			2
32	690203003	Fitting, straight 10-½" BSP	2	2	2
33	690203001	Quick coupling ½" E402, male	2	2	2
34	690201053	Hydr. hose 1260 mm ¼"			1
35	690201053	Hydr. hose 1260 mm ¼"			1
36	690201032	Hydr. hose 1130 mm ¼"			1
37	690201032	Hydr. hose 1130 mm ¼"			1
38	690201060	Hydr. hose 3000 mm ¼"	1	1	1
39	690201060	Hydr. hose 3000 mm ¼"	1	1	1
40	633151000	Scale f/depth control	1	1	1
41	633152000	Pointer f/depth control	1	1	1
42	698500018	Label f/scale f/depth control	1	1	1
43	690113005	Self-locking nut M10	4	4	4
44	690117012	Facet plate Ø10	4	4	4
45	690110020	U-bolt M10x70x70x70mm	1	1	1
46	69525095F	Pin Ø25 L=95	1	1	1
47	690101083	Bolt M10x35	2	2	2

Pos.	Item no.	Designation	2.6 m	3.0 m	4.0 m
48	633052000	Tine w/flat tine point (complete)			
49	633052025	Tine w/slicing plates point (complete)			
50	633055510	Tine bracket f/transverse locking system (complete)			

Note:

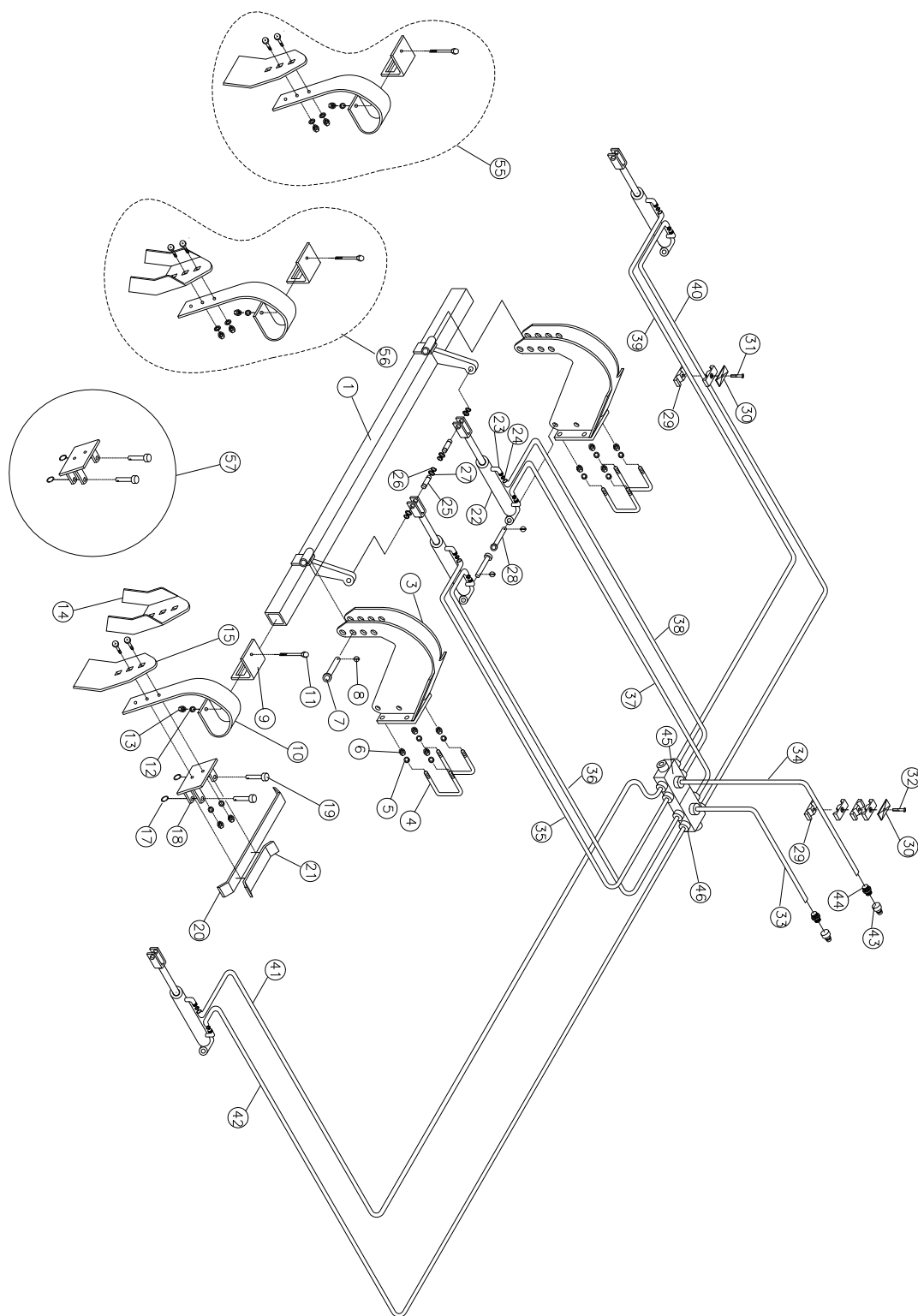
Check number and measurements of all hoses before ordering the spare parts.

Stabilization device

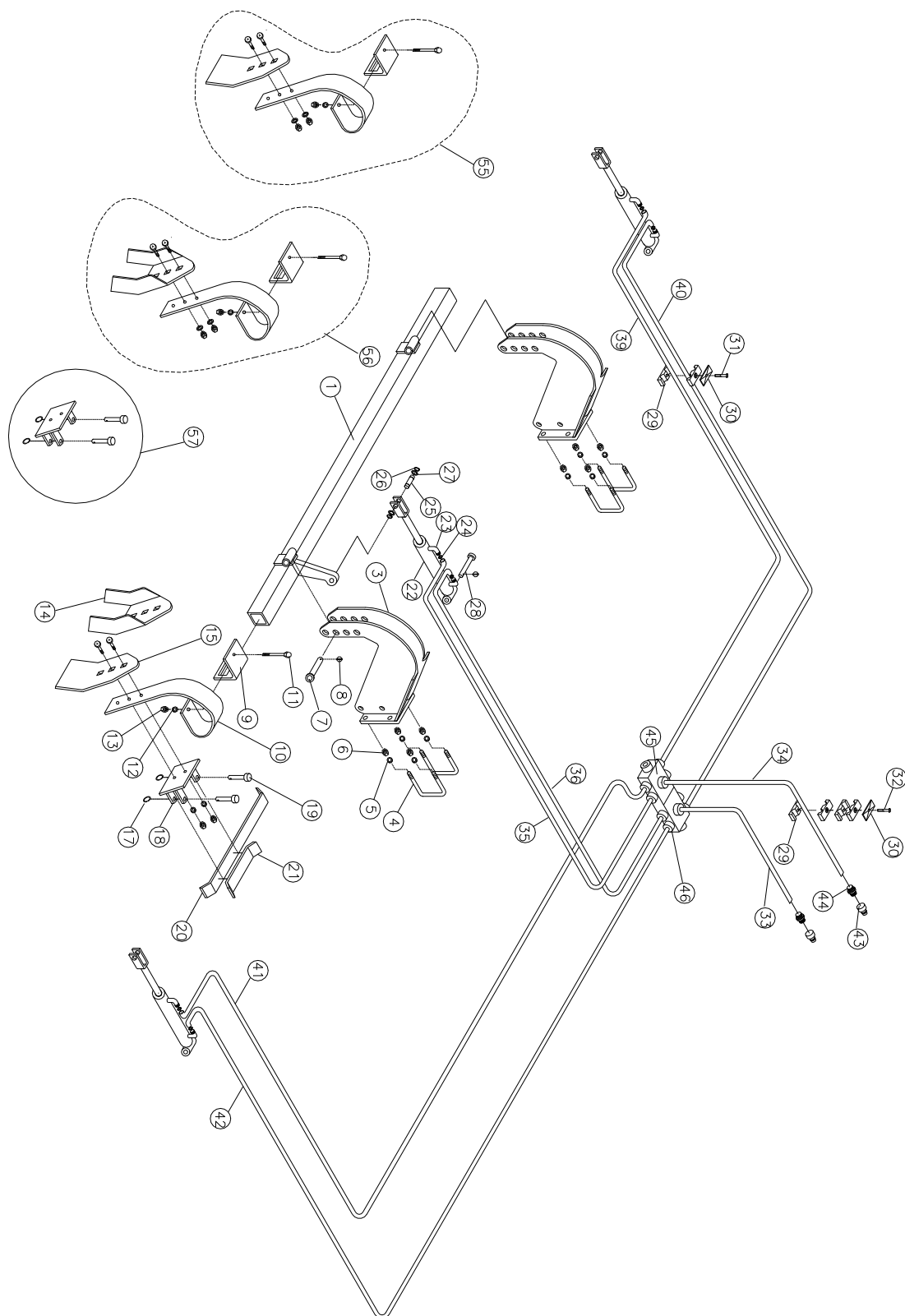


Pos.	Item no.	Designation	Pr. machine
1	670860010	Bracket for wing-section	2
2	690139001	Spring	2
3	670860005	Bracket upper	2
4	670860006	Chain	2
5	690110101	U-bolt M16x100x100x100	2
6	690117013	Facet plate Ø16	8
7	690113008	Self-locking nut M16	8
8	690110107	U-bolt M16x80x80x80	2
9	690103095	Bolt M12x60 8.8	4
10	690117014	Facet plate Ø12	4
11	690113006	Self-locking nut M12	4

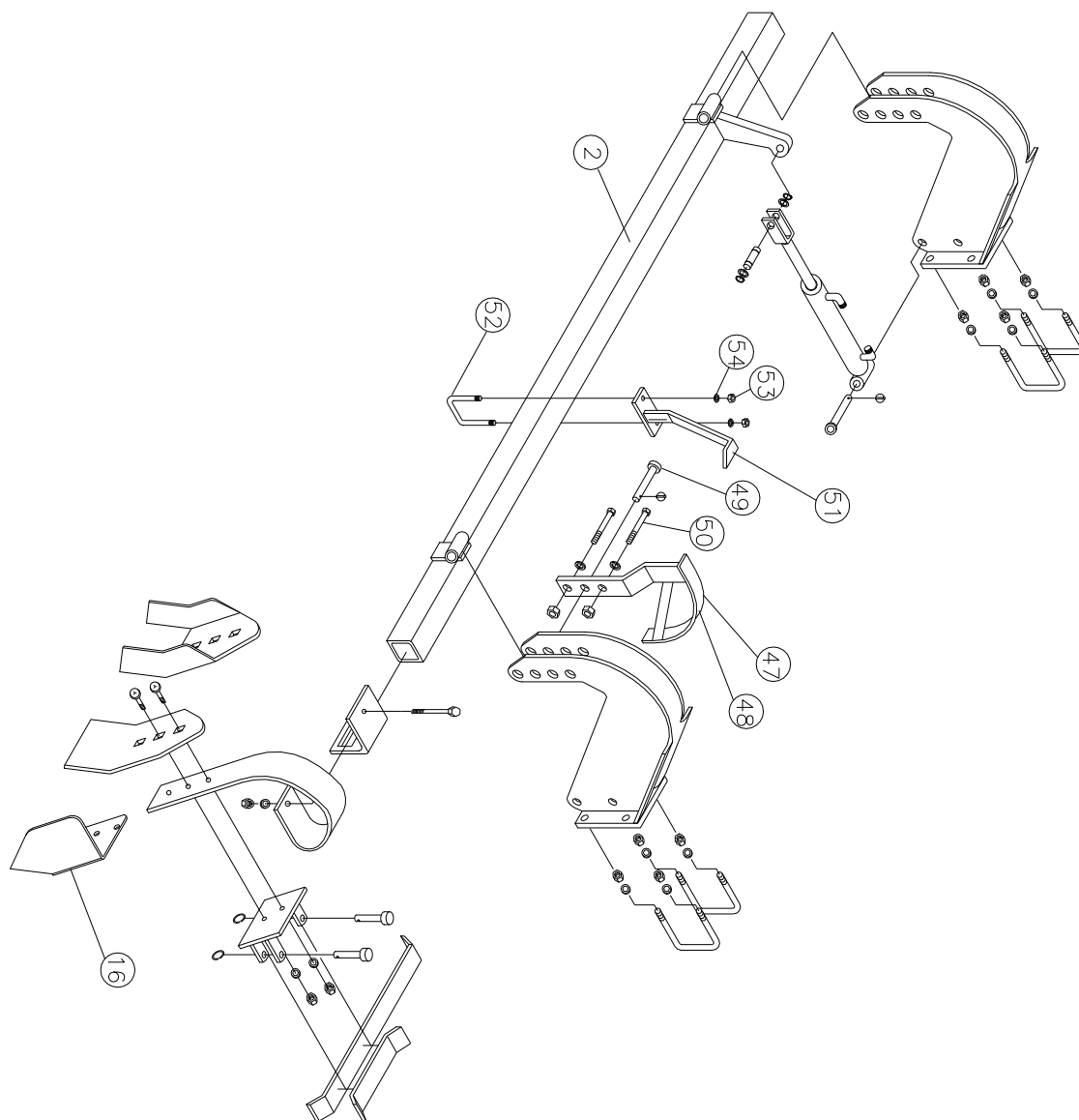
Spring-Board middle section 4.0 m (hydraulic)



Spring-Board middle section 6.0 m (hydraulic)



Spring-Board wing sections 4.0 and 6.0 m (hydraulic)



Pos.	Item no.	Designation	4.0 m	6.0 m
1	671880400	Bar (centre)	1	
1	671900600	Bar (centre + left side)		2
2	671880410	Bar (right side)	1	
2	671880420	Bar (left side)	1	
2	671900610	Bar (right side)		1
3	671844500	Horn	6	6
3	671844510	Horn from june 2010	6	6
4	690110101	U-bolt M16x100x100x100	12	12
4	690110404	U-bolt M18x100x100x100 from june 2010	12	12
5	690117013	Facet plate Ø16	24	24
5	690117015	Facet plate Ø18 from june 2010	24	24
6	690113008	Self-locking nut M16	24	24
6	690113016	Self-locking nut M18 from june 2010	24	24
7	69525087F	Pin Ø25 L=87	5	5
8	690134001	Ring pin Ø4.5	10	9
9	633052200	Clamp f/tine	16	24
10	633052050	Tine (10x80)	16	24
11	690103098	Bolt M12x110	16	24
12	690117014	Facet plate Ø12	16	24
13	690113006	Self-locking nut M12	16	24
14	633052150	Slicing plates point incl. bolts	16	24
15	633052100	Tine point (8x150) incl. bolts	16	24
16	633052250	Edge equipment (L)	1	1
16	633052255	Edge equipment (R)	1	1
17	690134000	Locking ring Ø30x3	32	48
18	633055500	Tine bracket f/transverse locking system	16	24
19	69512040K	Pin Ø12,5x40	32	48

Pos.	Item no.	Designation	4.0 m	6.0 m
20	633055710	Locking bar f/transverse locking system (long)	13	21
21	633055700	Locking bar f/transverse locking system (short)	6	6
22	690200160	Cylinder 50/30x155	4	3
22a	690200045	Gasket 50/30		
23	690203006	Fitting, 90angle 10-3/8" BSP	8	6
24	690207901	Restrictor 1 mm	8	6
25	69520046D	Pin Ø20 L=46	4	3
26	691372020	Seeger circlip ring Ø20	8	6
27	690115010	Washer Ø20/Ø28x1mm	8	6
28	69520087F	Pin Ø20 L=87	4	3
29	690210210	Tube-support double Ø14/Ø14	8	8
30	690210211	Top plate f/double tube-support	3	3
31	690103054	Bolt M8x40	2	2
32	690103045	Bolt M8x65	1	1
33	690201060	Hydr. hose 3000mm 1/4"	1	1
34	690201060	Hydr. hose 3000mm 1/4"	1	1
35	690201015	Hydr. hose 710mm 1/4"	1	1
36	690201015	Hydr. hose 710mm 1/4"	1	1
37	690201015	Hydr. hose 710mm 1/4"	1	
38	690201015	Hydr. hose 710mm 1/4"	1	
39	690201013	Hydr. hose 1770mm 1/4"	1	1
40	690201013	Hydr. hose 1770mm 1/4"	1	1
41	690201013	Hydr. hose 1770mm 1/4"	1	1
42	690201013	Hydr. hose 1770mm 1/4"	1	1
43	690203001	Quick coupling 1/2" E402, male	2	2
44	690203003	Fitting, straight 10-1/2" BSP	2	2
45	660501440	Assembly block 12x3/8 BSP	1	1
46	690203002	Fitting, straight 10-3/8" BSP	10	8

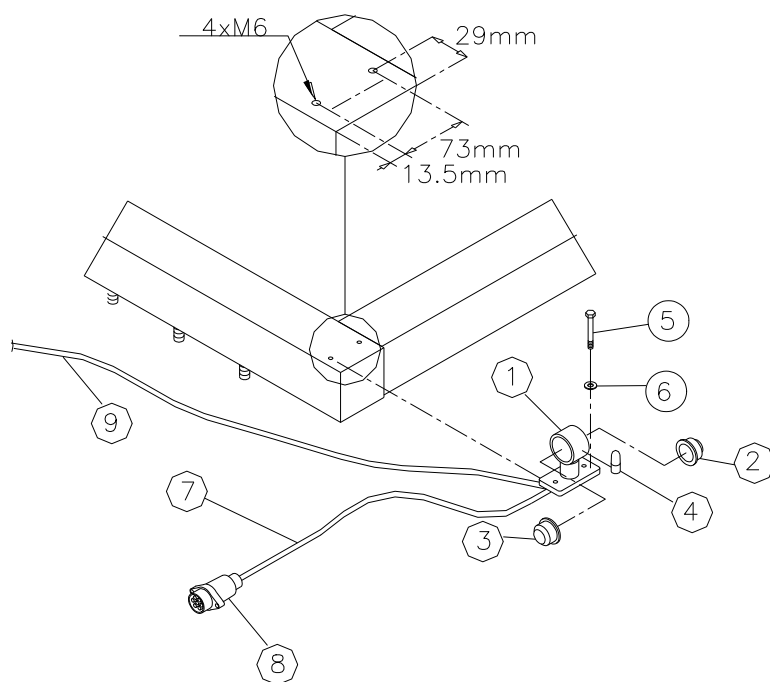
Pos.	Item no.	Designation	4.0 m	6.0 m
47	633151000	Scale f/depth control	1	1
48	698500018	Label f/scale f/depht control	1	1
49	69525095F	Pin Ø25 L=95	1	1
50	690101083	Bolt M10x35	2	2
51	633152000	Pointer f/depth control	1	1
52	690110020	U-bolt M10x70x70x70mm	1	1
53	690113005	Self-locking nut M10	4	4
54	690117012	Facet plate Ø10	4	4
55	633052000	Tine w/flat tine point (complete)		
56	633052025	Tine w/slicing plates point (complete)		
57	633055510	Tine bracket f/transverse locking system (complete)		

Note:

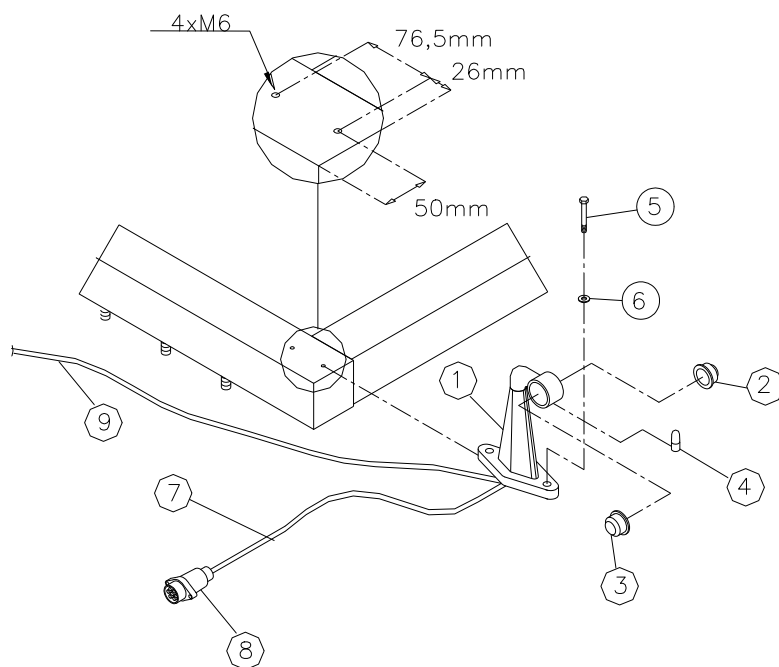
Check number and measurements of all hoses before ordering the spare parts.

Marking lights

Placing of marking lights on 1.5 m / 2.6 m / 3.0 m / 4.0 m hydr. and 6.0 m hydr. Front-Pakker with 700/800 mm rings & placing of marking lights on 1.5 / 4.0 m and 4.0 m hydr. Front-Pakker with 900 mm rings.



Placing of marking lights on 2.6 and 3.0 m Front-Pakker with 900 mm rings.

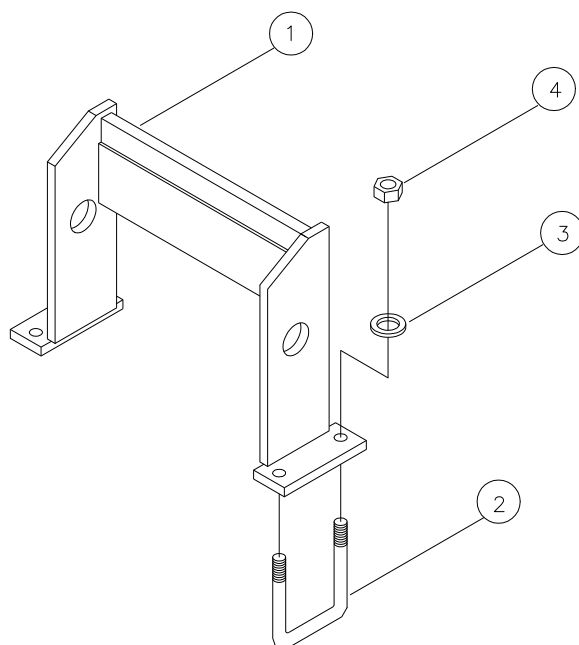


Pos.	Item no.	Designation	1.5m	2.6m	3.0m	4.0m	4.0m hydr.	6.0m hydr.
1	690160058	Marking lights 700/800 mm rings	2	2	2	2	2	2
1	690160058	Marking lights 900 mm rings	2			2	2	
1	690160059	Marking lights 900 mm rings		2	2			
2	690160065	Glass f/marketing lights (white)	2	2	2	2	2	2
3	690160066	Glass f/marketing lights (red)	2	2	2	2	2	2
4	690160067	Bulb f/marketing lights 12V 10W – BA15s	2	2	2	2	2	2
5	690103025	Bolt M6x20	4	4	4	4	4	4
6	690117003	Facet plate Ø6	8	8	8	8	8	8
7	690160080	Cable 5 x 1 mm ² L = 4550 mm	1					
7	690160080	Cable 5 x 1 mm ² L = 4850 mm		1				
7	690160080	Cable 5 x 1 mm ² L = 5050 mm			1			
7	690160080	Cable 5 x 1 mm ² L = 5715 mm				1		
7	690160080	Cable 5 x 1 mm ² L = xxxx mm					1	
7	690160080	Cable 5 x 1 mm ² L = xxxx mm						1
8	690160070	Plug 7-poles DIN 72 577 – ISO 1724	1	1	1	1	1	1
9	690160080	Cable 5 x 1 mm ² L = 2050 mm	1					
9	690160080	Cable 5 x 1 mm ² L = 2650 mm		1				
9	690160080	Cable 5 x 1 mm ² L = 3050 mm			1			
9	690160080	Cable 5 x 1 mm ² L = 4380 mm	1			1		
9	690160080	Cable 5 x 1 mm ² L = xxxx mm					1	
9	690160080	Cable 5 x 1 mm ² L = xxxx mm						1

Note:

Check number and measurements of all cables before ordering the spare parts.

Weight Carriers



Pos.	Item no.	Designation	Qty.
1	*	Weight carrier	2
2	690110101	U-bolt M16x100x100x100	4
3	690117013	Facet plate Ø16	8
4	690113008	Self-locking nut M16	8

* Depending on the tractor model

Notes



The design is subject to modification without notice.