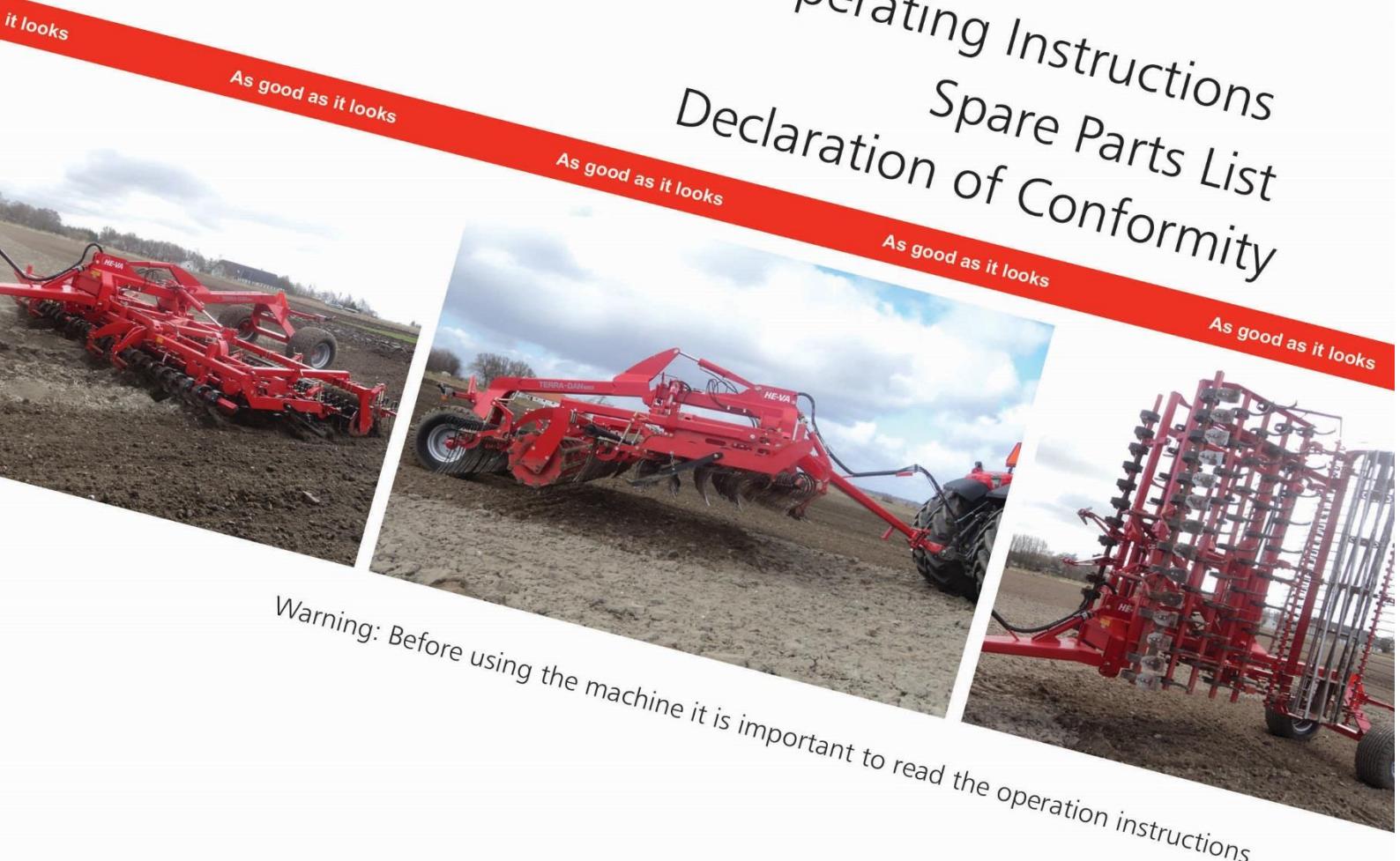




UK

HE-VA

Operating Instructions Spare Parts List Declaration of Conformity



Terra-Dan MKII

4.0 - 5.0 - 6.0 - 7.5 m - three-point mounted and traile

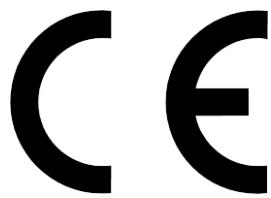


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EC-Declaration of Conformity

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
Denmark

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

The declaration comprises the following machine:

Terra-Dan MKII

4,0 / 5,0 / 6,0 / 7,5m

No : _____

Nykøbing, 29th Dec. 2009

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

Villy Christiansen

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

Delivery check

Upon delivery to the dealer/supplier as well as to the customer, check the Terra-Dan MKII for possible damages.

Machine description

Range of applications

HE-VA Terra-Dan MKII is a traileed seedbed harrow which is available in 4,0m, 5,0m, 6,0m and 7,5m working width. The standard Terra-Dan MKII has a strong frame construction with 4 bars, and either a double roller, or a single roller with long finger harrow in front. The long finger harrow adjusts the harrow depth centrally via the lift arms, ensuring a precise harrow depth in all soil types.

HE-VA Terra-Dan MKII has a wide range of extra equipment, meaning that the harrow may be built individually depending on the actual soil conditions and harrow tasks.

Technical specifications

Working width	4,0m	5,0m	6,0m	7,5m
Transport width	2,45m	2,45m	2,45m	2,45m
Transport height	2,4m	2,9m	3,4m	3,9m
Power required HP	105+	120+	135+	150+
Required no. of double-acting oil outlets	2 pcs.	2 pcs.	2 pcs.	2 pcs.
No. of tines	47/26 pcs.	59/33 pcs.	70/40 pcs.	82/46 pcs.

Safety instructions for Terra-Dan MKII

Do not start-up the machine if there are persons in exposed positions* within a hazardous area**.

When persons are in exposed positions (e.g. in connection with adjustment, maintenance, attachment and uncoupling), the following conditions must be observed:

1. The machine must be lowered to firm ground.
2. The hydraulics must be relieved.
3. The tractor must be stopped and the key removed from the ignition switch.
4. The driver must ensure that no persons are in exposed positions during the operation.

* **Persons in exposed positions:** Any person who is wholly or partly within a hazardous area.

** **Hazardous area:** On and under the machine within a distance of 10 m from the machine.

Most accidents that happen in connection with the operation, transport and maintenance of machines are caused by non-compliance with the most elementary safety conditions.

Therefore it is vital that anybody working at the machine carefully complies with the safety instructions as well as other instructions applying to the machine.

The machine may only be operated, maintained and repaired by persons, who are familiar with this work and who are further familiar with the possible elements of danger with this particular machine.

CAREFUL! **Rotating parts and loose-fitting clothing make up a dangerous combination.**

IMPORTANT! **Due to the risk of falling down, it is extremely hazardous to stand on the machine frame during operation of the machine attached to a tractor.**

Safety and instructions on hydraulics

1. The maximum working pressure is 225 bar.
2. It is advisable to label the attachment parts at hydraulic connections between the tractor and the tool in order to eliminate incorrect operation!
3. When checking for hydraulic leaks, use suitable safety wear (eye protectors, gloves, etc.).
High-pressure hydraulic oil may penetrate the skin and cause dangerous injuries.
In case of injury, consult a doctor immediately. **⚠ RISK OF INFECTION!**
4. Before operating the hydraulics, lower the machine to firm ground.
Relieve the hydraulics, stop the motor and remove the ignition key.
5. Check the hydraulic hoses on a regular basis, however, every six months as a minimum due to any cracks, wear and tear, etc. Replace any defective hoses immediately.

The life of hydraulic hoses is maximum 5 years.

New hydraulic hoses must meet the manufacturer's requirements.

Transport on public roads

Check before transport on public roads that the attachment of the machine at the tractor is in accordance with the local rules and regulations in force (permitted total weight, permitted axle load, transport width, lights, warning signs, etc.).

Labels on the machine

On your machine there are several labels containing both practical advice and **safety precautions**.

Please be sure to read the labels and inform all those who operate the machine of the **safety instructions** in the manual.

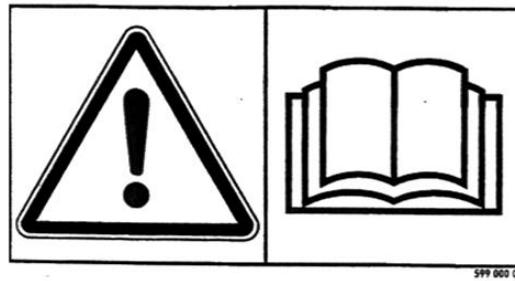
Keep the labels clean and legible – if not they should be replaced.



A

**HUSK - PLEASE NOTE -
ACHTUNG - ATTENTION**
**EFTERSPÆND BOLTE
TIGHTEN UP THE BOLTS
BOLZEN NACHZIEHEN
RESSERRER LES BOULONS**

C



B



D

Forklaring på maskinens mærkater

- A** Plate with number and year of manufacture.
- B** Study the Operating Instructions thoroughly before any operation of the machine and observe all safety instructions.
- C** Tighten up the bolts regularly. If this is not respected, our warranty obligations will no longer apply.
- D** Make sure that the working area is clear before unfolding the wing sections. Never walk under a suspended section.

Start-up of the machine

General information

Terra-Dan MKII lift-mounted requires 1 double-acting oil outlet.

Terra-Dan MKII trailedd requires 2 double-acting oil outlets.

Attachment and uncoupling

From transport to working position:

1. Raise the machine to maximum transport height.
2. First, fold in the wings to relieve the locking pawls, then, extend the wings completely, and put the hydraulic outlet in **neutral**, NOT flow position.
3. Lower the machine and adjust the working depth.

(See section: *Instructions and adjustment of the harrow*)

From working to transport position:

1. Raise the machine to maximum transport height.
2. Fold in the wing sections.  **Make sure that the wing sections are locked.**

Maintenance

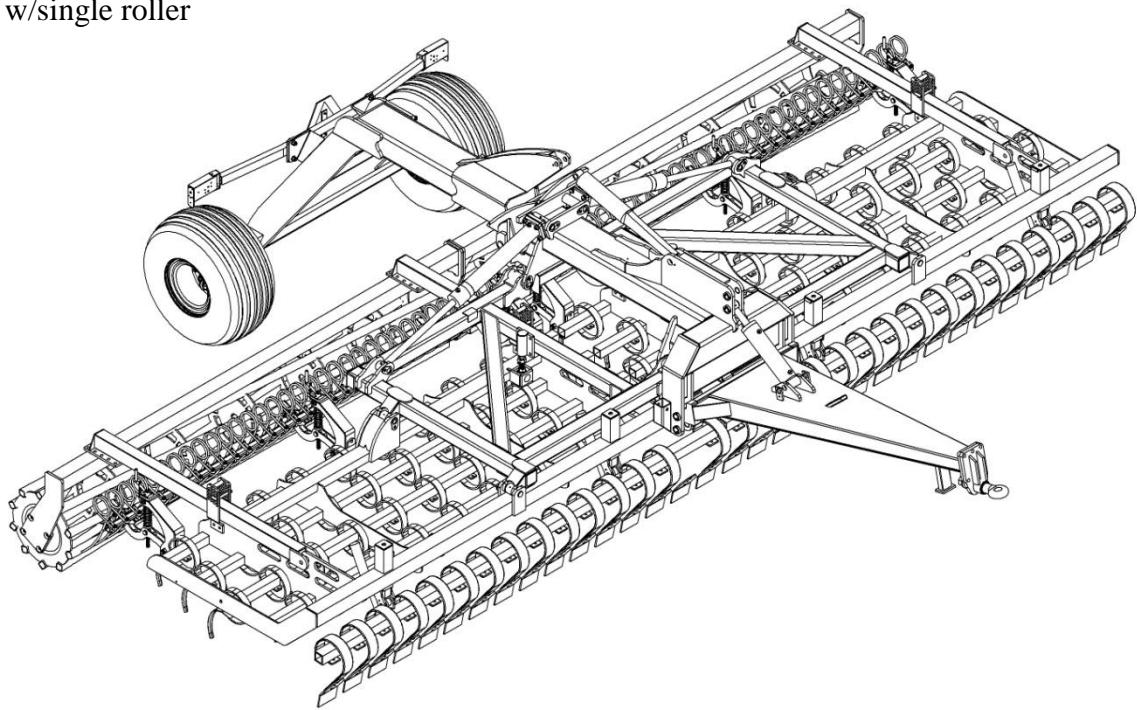
- After the first 10 hours of operation, **retighten** the machine. Check hydraulic hoses, fittings and cylinders for leaks and retighten.
- Ensure on a regular basis that all bolts are **tightened**.
- Before the winter storage, wash and lubricate the machine. If you use high-pressure cleaner, do not spray directly on the ball bearings. After the washing, you may spray the machine with oil.

Lubrification

For lubrication, maintenance and repair, the Terra-Dan MKII must be lowered, the tractor must be braked and the motor stopped.

The trailed Terra-Dan MKII has 36 lubrication points, and the lift-mounted model has 28. The typical lubrication points are located at spindles, wheel bearings and wing arms. All Terra-Dan MKII have to be lubricated after 8 working hours as well as after cleaning in order to press out any water and dirt.

Terra-Dan MKII 7,5m trailed
w/single roller



Note! **However, the double-sealed ball bearings in the roller should only be lubricated every 20 working hours and by 1-2 strokes so that the sealing rings are not pressed out.**

Important! **The hydraulic system is filled with oil type Hydro Texaco HD32.**

Assembly instructions

Assembling the drawbar and wheel support

Mount the drawbar and its cylinder in the lowest holes of the three-point linkage.

Mount the wheel support at the rear of the main frame, using the Ø50mm pin. Next, mount the wheel cylinder between the frame and the support.

Connect hydraulic hoses and fasten them to the parking device on the drawbar.

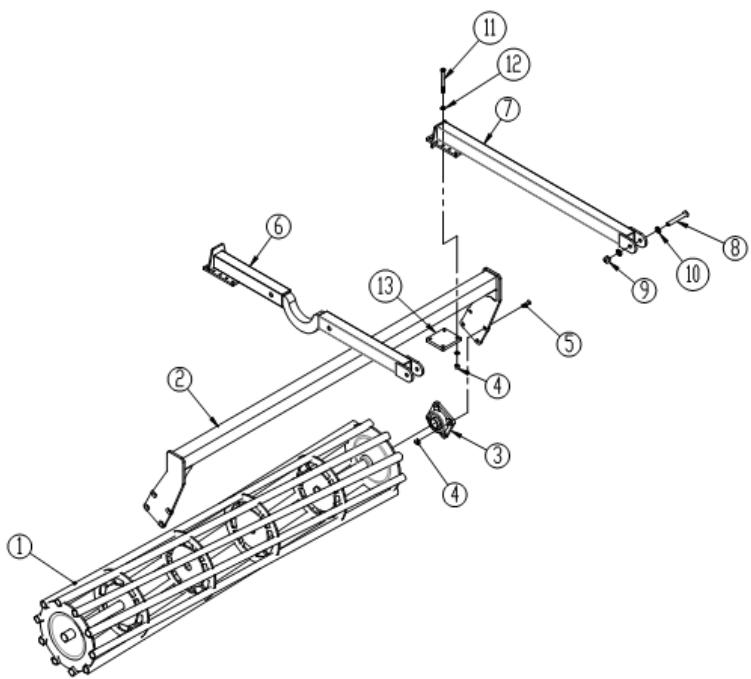


Mounting the square tube roller / V-profile roller

Mount the roller arms (pos. 6 og 7) onto the harrow.

Pos. 6 should be mounted towards the centre of the harrow.

Mount the roller bar and the roller, as shown below.



Instructions and adjustment of the harrow

Attaching the harrow

Attach the Terra-Dan MKII in the lift arms of the tractor.
Connect hydraulic hoses.

Adjusting the parallel operation of the harrow

Fold out the harrow, and lower it to the ground. Make sure the working depth is even on all the tine bars by comparing the end plates. They should be parallel to the ground on both sides.

* If they are not, adjust the length of the top link (lift-mounted models). On traile models, either adjust the height of the tractor lift arms or use the clips of the drawbar cylinder.



Depth adjustment of the harrow

Adjust the depth by re-positioning the pin in the adjustment plate by the roller arms. The pins must be in the same position on all 4 plates to avoid torsion of the harrow frame.

If a significant adjustment is needed, follow the above procedure for resetting the parallel operation of the harrow.



Adjusting the Spring-Board

The height of the Spring-Board is adjusted using the 2 spindles, or by raising / lowering the tractor lift arms.

Please note, that this may affect the parallel operation of the harrow.

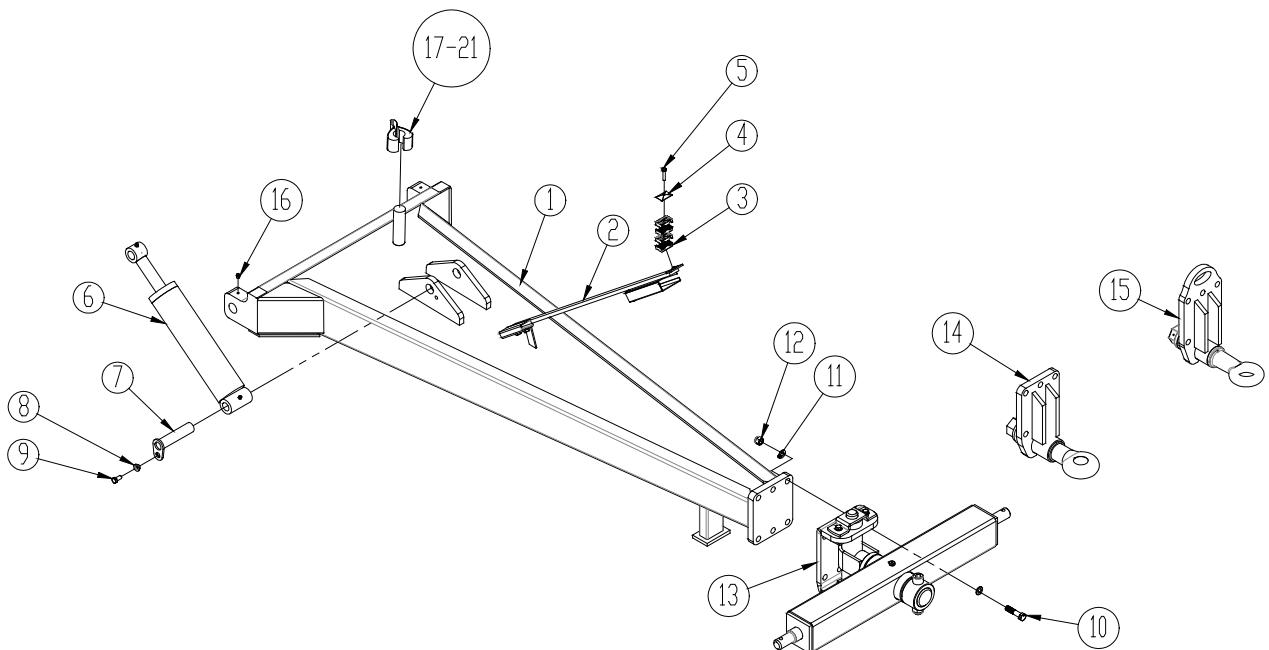
A hydraulic angle adjustment for the Spring-Board is available as extra equipment.

Locking device

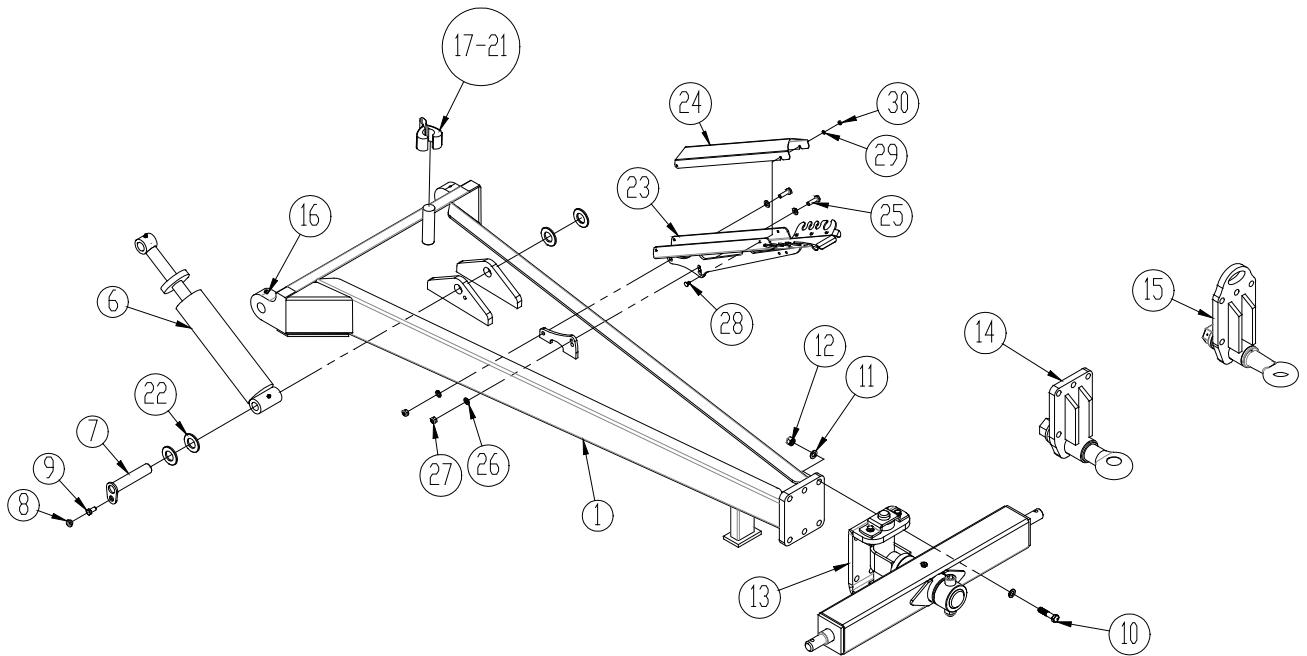
Make sure that the wing sections are locked before transport.

Spare parts list

Drawbar (befor Feb. 2016)

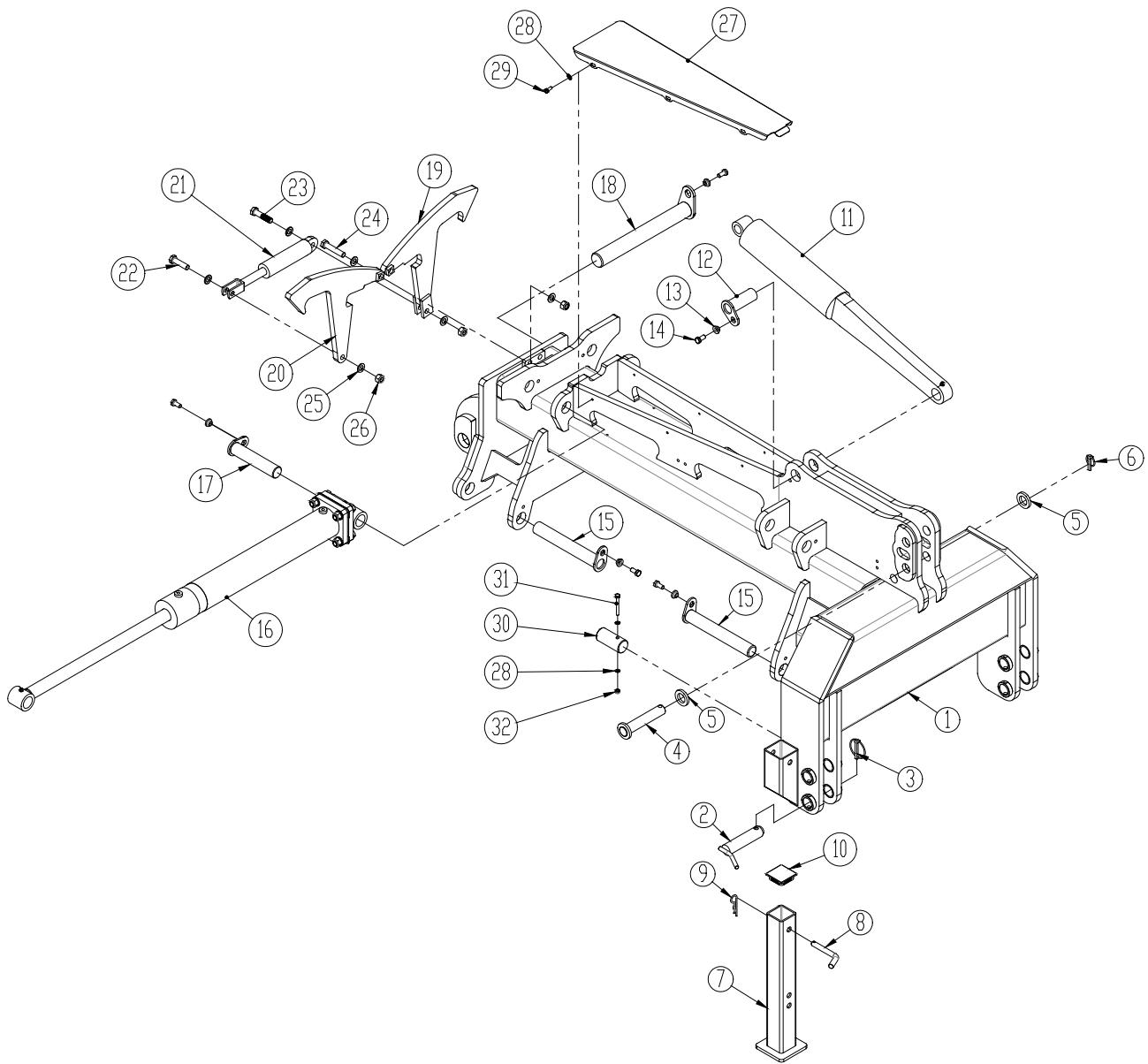


Drawbar (after Feb. 2016)

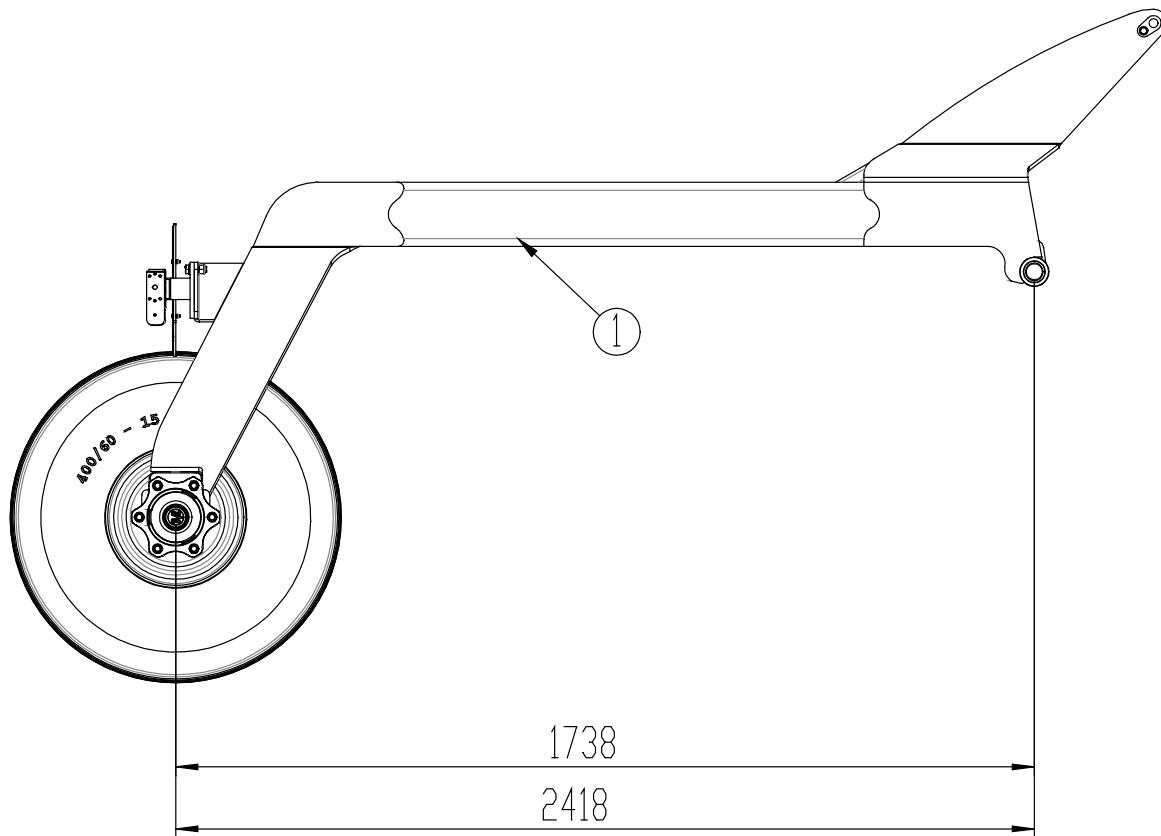
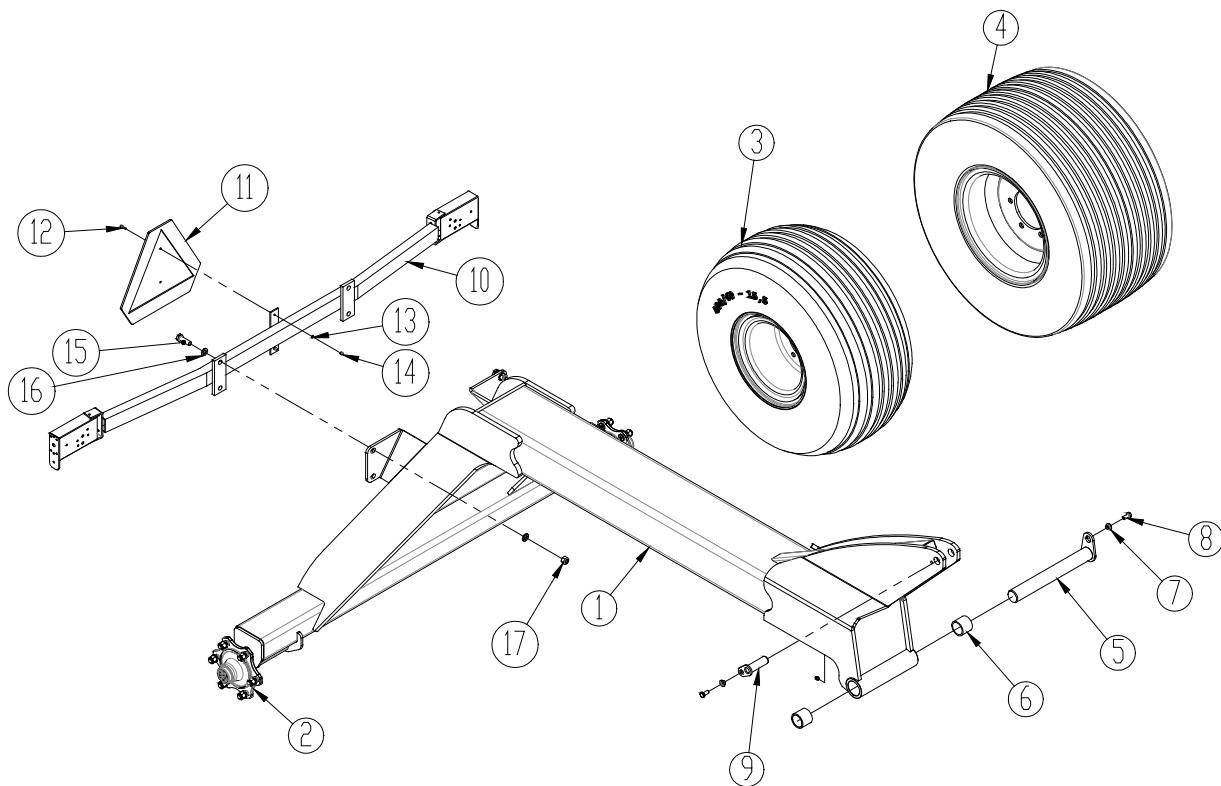


Pos.	Item no.	Designation	No.
1	630931052	Drawbar (for Feb. 2016)	1
	630931057	Drawbar (from Feb. 2016)	1
2	630771200	Parking device (for Feb. 2016)	1
3	0449430	Tube support, double Ø14/Ø14 (for Feb. 2016)	4
4	690210211	Top plate f/double tube support (for Feb. 2016)	1
5	0234790	Bolt M8x40 (for Feb. 2016)	1
6	0462750	Cylinder 90/40x280 Ø35/Ø32,5 for 4,0m, 5,0m and 6,0m	1
	690200274	Gasket kit	
	0463302	Cylinder 100/40x280 Ø35/Ø32 for 7,5m	1
	0463372	Gasket kit	
7	69435155G	Pin Ø35 L=155mm (for Feb. 2016)	1
	69435170G	Pin Ø35 L=170mm (from Feb. 2016)	1
8	630532600	Lock bush f/pin head	1
9	0235330	Bolt M12x25mm	1
10	690103173	Bolt M20x70 10.9	6
11	0272310	Facet plate M20	12
12	0264110	Self-locking nut M20	6
13	630757034	Pivoting crossbar	1
14	630757017	Pivoting towing eye (strong)	1
15	630757043	Pivoting towing eye (strong)	1
16	690136029	Lubricating nipple M8	2
17	690200664	Distance clip, 6.2mm, blue	
18	690200665	Distance clip, 9.4mm, red	
19	690200666	Distance clip, 18.8mm, yellow	
20	690200667	Distance clip, 31.6mm, black	
21	690200668	Distance clip, 50.8mm, silver	
22	0272380	Facet plate Ø36 (from Feb. 2016)	4
23	7345004	Parking device (from Feb. 2016)	1
24	7345003	Screen for parking device (from Feb. 2016)	1
25	0246060	Carriage bolt M6x16 (from Feb. 2016)	4
26	0272240	Facet plate Ø6 (from Feb. 2016)	4
27	0264040	Self-locking nut M6 (from Feb. 2016)	4
28	0235360	Bolt M12x40 (from Feb. 2016)	2
29	0272270	Facet plate Ø12 (from Feb. 2016)	4
30	0264070	Self-locking nut M12 (from Feb. 2016)	2

Middle frame

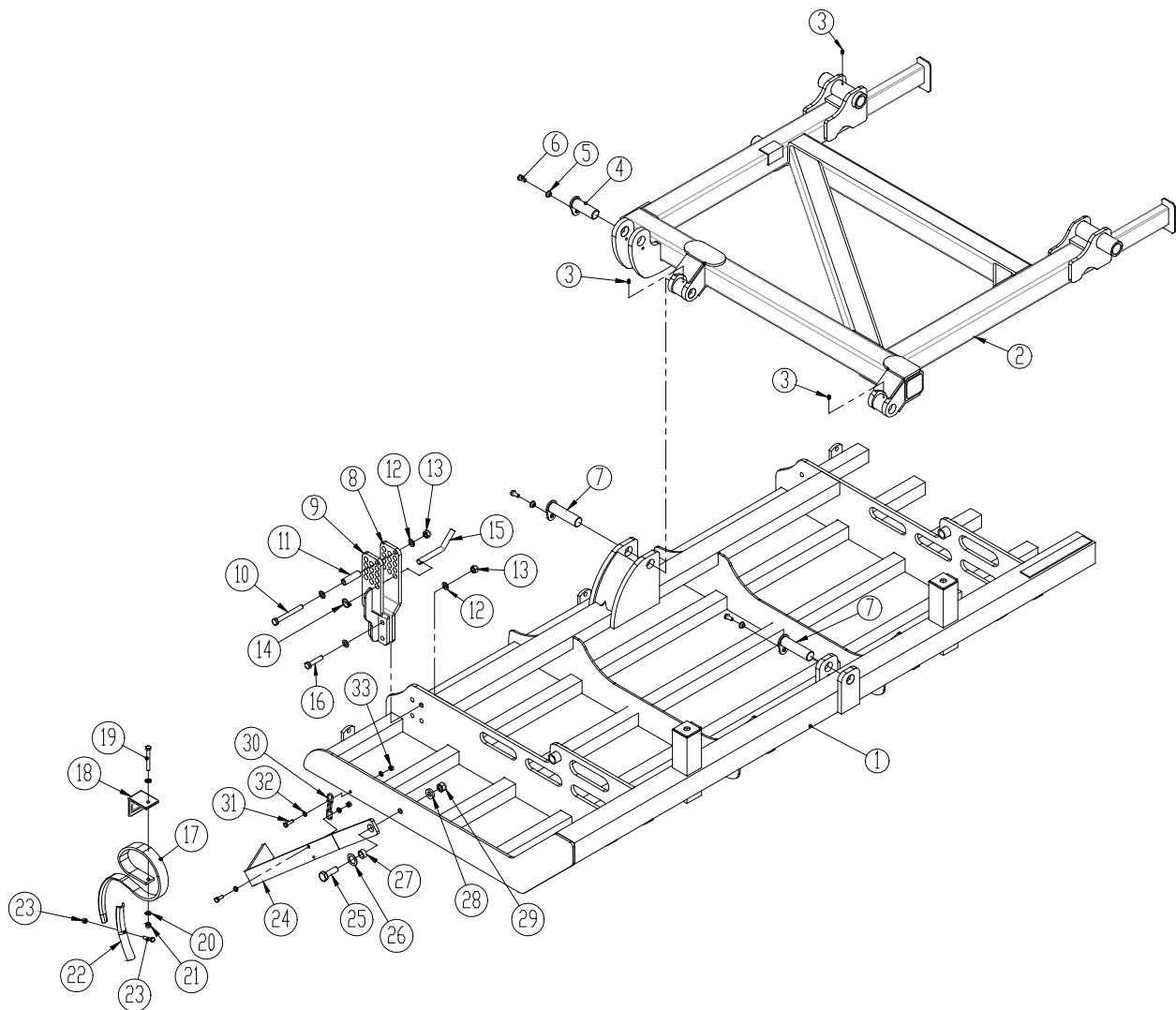


Pos.	Item no.	Designation	No.
1	1160246	Middle frame (to machine no 32432)	1
	1300114	Middle frame (from machine no 32433)	1
2	69537129B	Pin for lift arm Ø37 L=129	2
3	690134008	Ring split (Ø11,5 m/Ø60)	2
4	1140361	Pin Ø32 L= 149	2
5	1069950	Washer Ø33	2
6	0378600	Ring split (Ø11 w/Ø40 ring)	
7	1160274	Support leg	2
8	1030280	Pin Ø16	2
9	0377400	R-clip Ø4	2
10	690109202	Plug	2
11	690200270	Cylinder f/wheel support for 4m, 5m and 6m (to machine nr 33644)	1
	690200274	Gasket kit	
	1141135	Cylinder f/wheel support for 7,5m (to machine nr 33644)	1
	0463372	Gasket kit	
	7345079	Cylinder f/wheel support for 4m, 5m, 6m og 7,5m (from machinnr 33645)	1
	0463372	Gasket kit	
12	69440110G	Pin Ø40 L=110	1
13	630532600	Lock bush	8
14	0235330	Set bolt M12x25mm	8
15	69440255G	Pin Ø40 L=255 (to machine no 32432)	4
	69440280G	Pin Ø40 L=280 (from machine no 3243)	4
16	1160344	Cylinder f//side section for 4,0m, 5,0m, 6,0m and 7,5m	2
	1160344	Cylinder f//side section (for 7,5m with V-profile models)	4
	690200268	Gasket kit	
17	69440195G	Pin Ø40 L=195	2
18	69450400G	Pin Ø50 L=400	1
19	1160193	Pawl (L)	1
20	1160276	Pawl (R)	1
21	690200170	Cylinder	1
	690200175	Gasket kit	
22	690103130	Bolt M16x70 10.9	1
23	690103133	Bolt M16x60 10.9	1
24	690103135	Bolt M16x80 10.9	2
25	0272290	Facet plate Ø16	8
26	0264090	Lock bush M16	8
27	1300120	Screen (from machine no 32433)	1
28	0272250	Facet plate Ø8	10
29	0234750	Bolt M8x20	6
30	1140951	Pin f/wing	2
31	0234833	Bolt M8x70	2
32	0264050	Lock bush M8	2

Wheel support

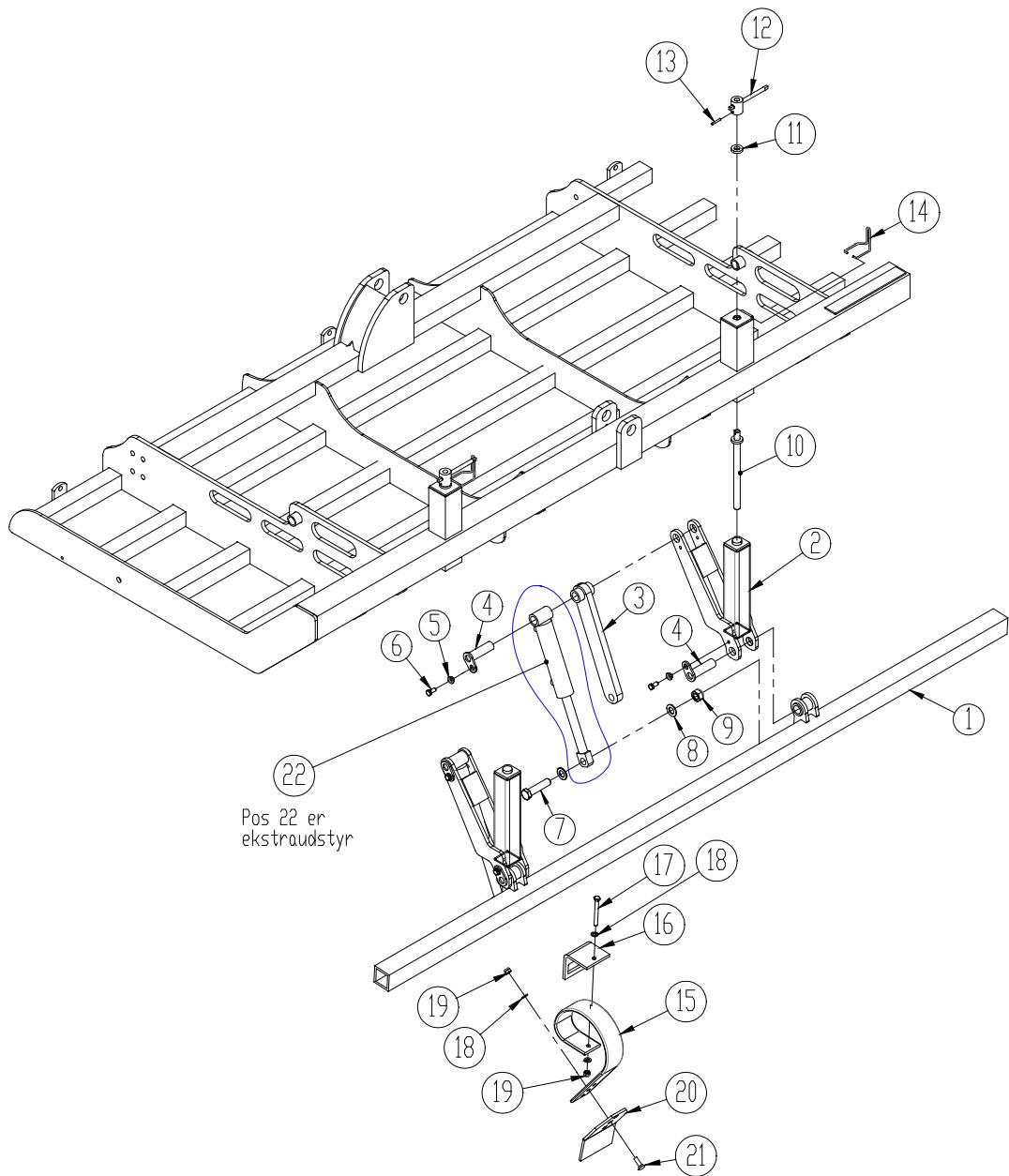
Pos.	Item no.	Designation	No.
1	1160565	Wheel support, 1700 kg hub (long 2418mm) (to machine no. 31283) (For machines with after harrow behind the roller)	1
	1160565	Wheel support, 2500 kg hub (from machine no. 31284 to 33644) (long 2418mm) (For machines with after harrow behind the roller)	1
	1160939	Wheel support, 2500 kg hub (long 2418mm) (from machine no. 33645) (For machines with after harrow behind the roller)	1
	1140873	Wheel support, 1700 kg hub (short 1738mm) (to 1/9 2015)	1
	1140873	Wheel support, 2500 kg hub (from 1/9 2015 to machine no. 33644) (short 1738mm)	1
	1141258	Wheel support, 2500 kg hub (from machine no. 33645) (short 1738mm)	1
2	690141025	Hub 1700 kg	
	0395230	Sealing ring	
	0395210	Bearing 30206	
	0479000	Bearing 30209	
	0396470	Hub nut	
	690141039	Hub bolt	
	690141314	Hub cap	
	0396480	Castellated nut	
	690141030	Hub 2500 kg	
	0396420	Sealing ring	
	690140105	Bearing 30208	
	690140111	Bearing 30211	
	0396470	Hub nut	
	0396460	Hub bolt	
	690141033	Hub cap	
	0396480	Castellated nut	
3	0396300	Wheel (complete) 400/60 15,5 14 Ply	2
4	0396650	Wheel (complete) 500/50 17 14 Ply	2
5	69450400G	Pin Ø50 L=400	1
6	0475400	Inner tension bush EG Ø60/50 L= 50mm	2
7	630532600	Lock bush	2
8	0235330	Set bolt M12x25mm	2
9	69430095G	Pin Ø30 L= 95 (to machine no. 33644)	1
	69440090G	Pin Ø40 L= 90 (from machine no. 33645)	1
10	630835015	Lights bar	1
11	0521010	Warning triangle	1
12	0233860	Bolt M5x20	2
13	0272230	Facet plate Ø5	4
14	0264030	Lock bush M5	2
15	690103197	Bolt M16x50	4
16	0272290	Facet plate Ø16	8
17	0264090	Lock bush M16	4

Wing section



Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	1141108	Wing (L)	1			
	1141116	Wing (R)	1			
	1140997	Wing (L)		1		
	1140996	Wing (R)		1		
	1140901	Wing (L)			1	
	1140902	Wing (R)			1	
	1141012	Wing (L)				1
	1141013	Wing (R)				1
2	1141112	Top wing (L)	1			
	1141117	Top wing (R)	1			
	1140992	Top wing (L)		1		
	1140991	Top wing (R)		1		

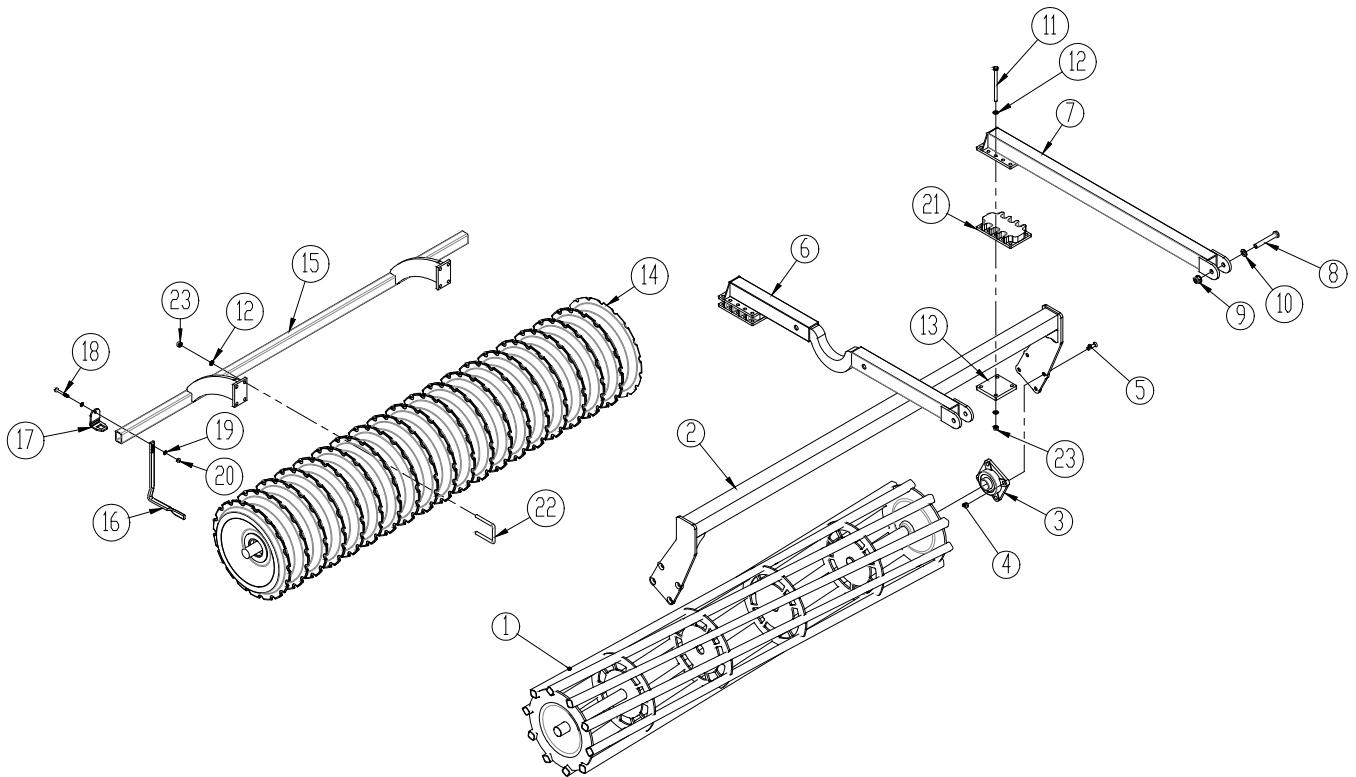
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
	1140914	Top wing (L)			1	
	1140918	Top wing (R)			1	
	1141014	Top wing (L)				1
	1141015	Top wing (R)				1
3	0432510	Lubricating nipple	6	6	6	6
4	69440115G	Pin Ø40 L=115	2	2	2	2
5	630532600	Lock bush	6	6	6	6
6	0235330	Bolt M12x25	6	6	6	6
7	1160172	Pin Ø40x145	4	4	4	4
8	1141046	Pierced plate	2	2	2	2
9	1141042	Pierced plate	2	2	2	2
10	0235940	Bolt M16x140	2	2	2	2
11	1140970	Bush	2	2	2	2
12	0272290	Facet plate Ø16	20	20	20	20
13	0264090	Self-locking nut M16	10	10	10	10
14	0378200	Ring split Ø4.5mm	2	2	2	2
15	1141072	Pin Ø20 L= 115	2	2	2	2
16	0235860	Bolt M16x70	8	8	8	8
17	0422175	Tine 45x12mm w/point	47	59	70	82
	0422180	Tine 65x12mm w/point	26	33	40	46
18	0422372	Tine bracket f/45x12 tine	47	59	70	82
	0422394	Tine bracket f/65x12 tine	26	33	40	46
19	0235460	Bolt M12x100mm (for 45x12mm tine)	47	59	70	82
	0235470	Bolt M12x110mm (for 65x12mm tine)	26	33	40	46
20	0272270	Facet plate Ø12	47/26	59/33	70/40	82/46
21	0264070	Self-locking nut M12	47/26	59/33	70/40	82/46
22	0422030	Reversible point (for 45x12mm tine)	47	59	70	82
	0422033	Reversible point (for 65x12mm tine)	26	33	40	46
23	0386220	Cultivator bolt M10x45 (for 45x12mm tine)				
	0387450	Cultivator bolt M12x70 (for 65x12mm tine)				
24	1140216	Levelling tine (L)	1	1	1	1
	1140217	Levelling tine (R)	1	1	1	1
25	0236140	Bolt M20x65	2	2	2	2
26	1140334	Spacing washer 2mm	2	2	2	2
27	1095950	Bush f/adjusting arm	2	2	2	2
28	1011410	Stop ring	2	2	2	2
29	0264110	Self-locking nut M20	2	2	2	2
30	0401350	Chain w/5 links				
31	0235070	Set bolt M10x40	4	4	4	4
32	0272260	Facet plate Ø10	8	8	8	8
33	0264060	Self-locking nut M10	4	4	4	4

Spring-Board / hydraulic adjustment

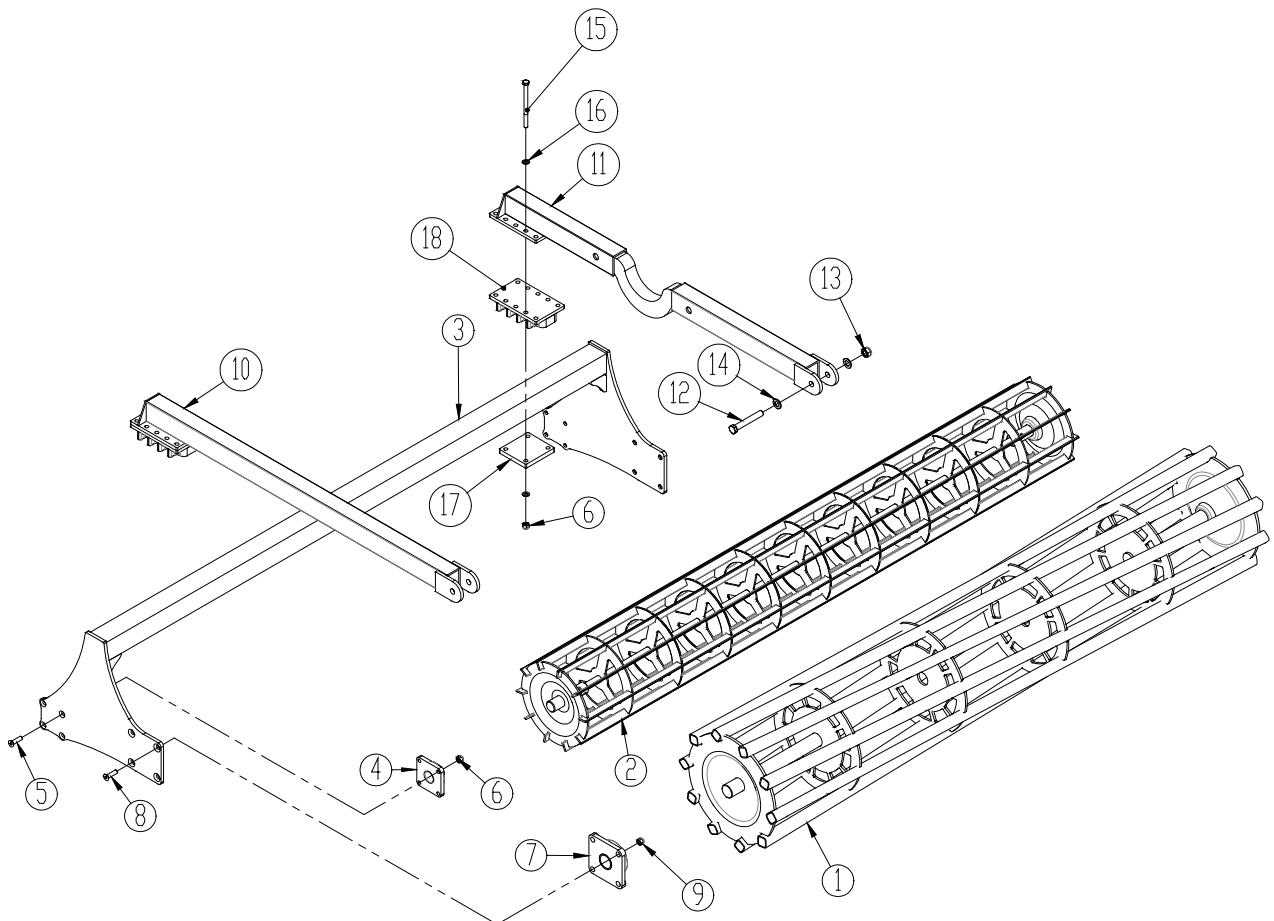
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	1141118	Spring-Board bracket (L)	1			
	1141120	Spring-Board bracket (R)	1			
	1141006	Spring-Board bracket (L)		1		
	1141005	Spring-Board bracket (R)		1		
	1140904	Spring-Board bracket (L)			1	
	1140903	Spring-Board bracket (R)			1	
	1141016	Spring-Board bracket (L)				1
	1141017	Spring-Board bracket (R)				1
2	1140819	Bottom leg	4	4	4	4
3	1141139	Bar f/rigid Spring-Board	4	4	4	4
4	69430107G	Pin Ø30 L=107	8	8	8	8
5	630532600	Lock bush	8	8	8	8
6	0235330	Bolt M12x25	8	8	8	8
7	0236410	Bolt M24x100	4	4	4	4
8	0272330	Facet plate Ø24	8	8	8	8
9	0264130	Self-locking nut M24	4	4	4	4
10	1080540	Spindle	4	4	4	4
11	1011410	Stop ring	4	4	4	4
12	1035800	Crank handle	4	4	4	4
13	0371500	Retaining pin Ø6x32	4	4	4	4
14	0431980	Locking hoop	4	4	4	4
15	0422144	Tine 80x10mm	18	22	26	34
16	0422390	Tine bracket (70x70 bar)	18	22	26	34
17	0235470	Bolt M12x110	18	22	26	34
18	0272270	Facet plate Ø12	36	44	52	68
19	0264070	Self-locking nut M12	36	44	52	68
20	0422143	Wearing plate 150x8mm	18	22	26	34
21	0248660	Carriage bolt M12x40	18	22	26	34

**Extra equipment
(hydraulic adjustment of Spring-Board)**

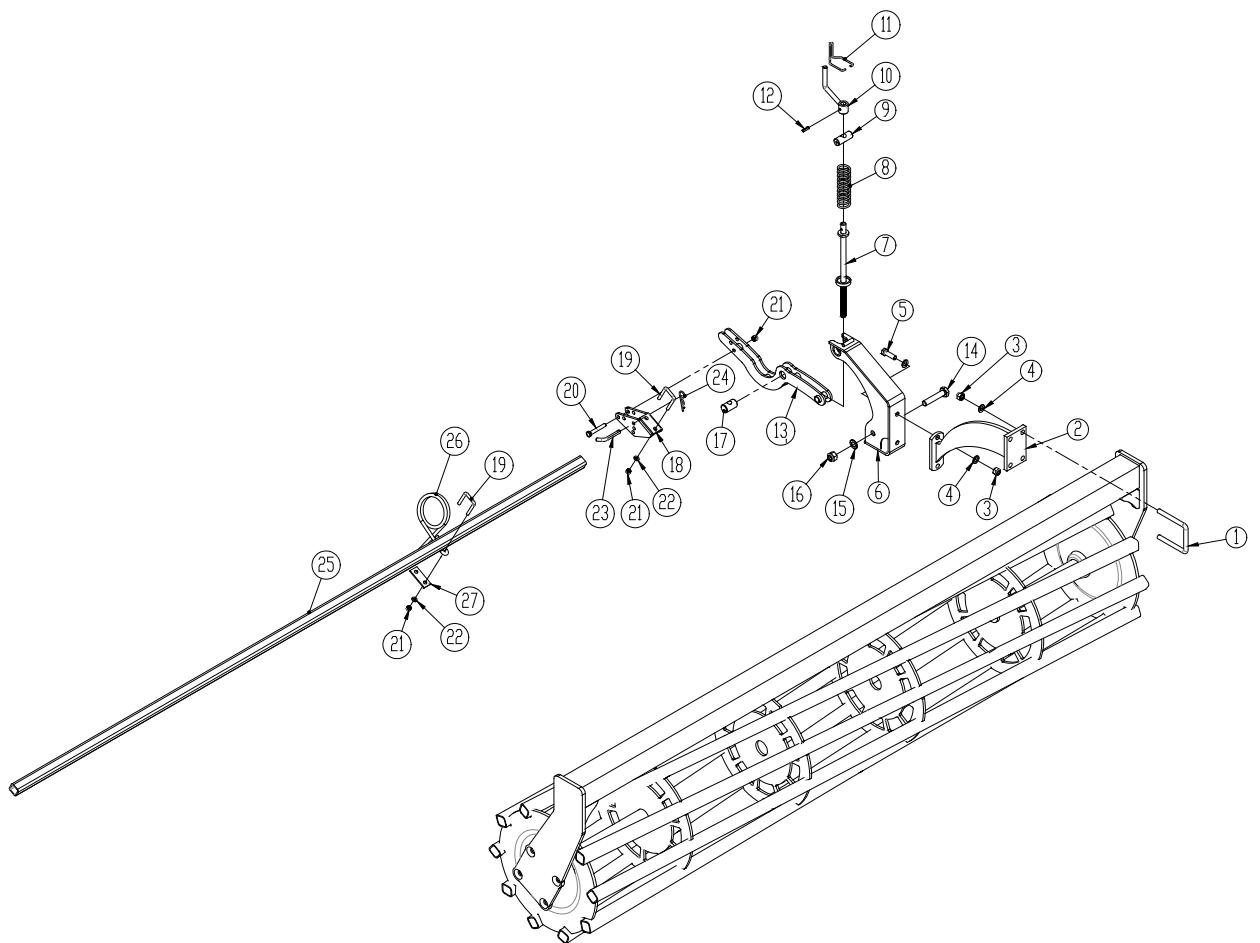
22	1140941	Cylinder	4	4	4	4
	0465070	Gasket kit				

Square tube roller / V-profile roller

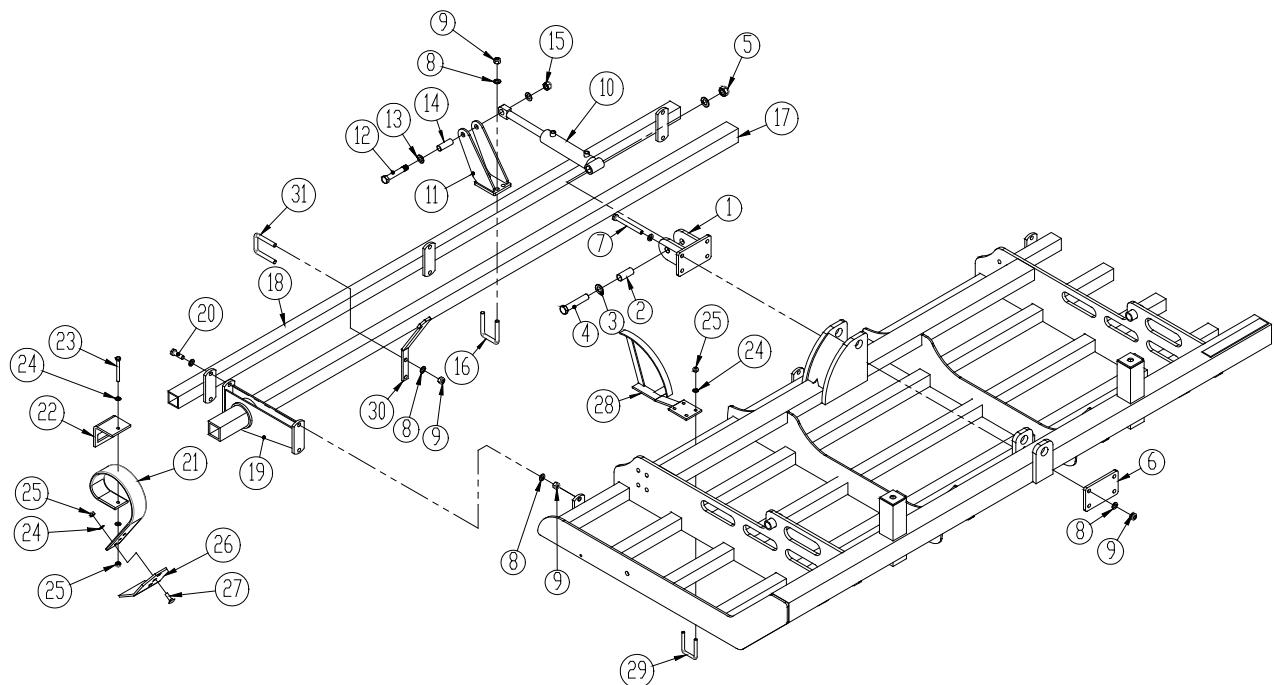
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	1048310	Square tube roller (2,0m)	2			
	1048210	Square tube roller (2,5m)		2		
	1048240	Square tube roller (3,0m)			2	
	1048340	Square tube roller (3,75m)				2
2	1141121	Roller bar	2			
	1141003	Roller bar		2		
	1140911	Roller bar			2	
	1141018	Roller bar				2
3	0478971	Bearing UCF312	4	4	4	4
4	0264110	Self-locking nut M20	16	16	16	16
5	0229250	Bolt (countersunk) M20x70	16	16	16	16
6	1140833	Roller arm	2	2	2	2
7	1140818	Roller arm	2	2	2	2
8	0236460	Bolt M24x150	4	4	4	4
9	0264130	Self-locking nut M24	4	4	4	4
10	0272330	Facet plate Ø24	4	4	4	4
11	0235960	Bolt M16x170mm (V-profile roller)	16	16	16	16
	0236010	Bolt M16x220mm (Square tube roller)	16	16	16	16
12	0272290	Facet plate Ø16	32	32	32	32
13	1141175	Bracket	4	4	4	4
14	1160479	V-profile roller (2,0m)	2			
	1160468	V-profile roller (2,5m)		2		
	1160470	V-profile roller (3,0)			2	
	1160606	V-profile roller (3,75m)				2
15	1141150	Scraper bar	2			
	1141105	Scraper bar (2,5m)		2		
	1141057	Scraper bar (3,0m)			2	
	1141037	Scraper bar (3,75m)				2
16	630938520	Scraper	24	32	38	48
17	630938522	Clamp	24	32	38	48
18	0235450	Bolt M12x90mm	24	32	38	48
19	0272270	Facet plate Ø12	48	64	76	96
20	0264070	Self-locking nut M12	24	32	38	48
21	1141103	Spacer (only when Square Tube Roller is mounted)	4	4	4	4
22	0382160	U-bolt M16 100x100x100	8	8	8	8
23	0264090	Self-locking nut M16	32	32	32	32

Double roller

Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	1048310	Square tube roller (2,0m)	2			
	1048210	Square tube roller (2,5m)		2		
	1048240	Square tube roller (3,0m)			2	
	1048340	Square tube roller (3,75m)				2
2	1141154	Flat bar roller (2,0m)	2			
	1141094	Flat bar roller (2,5m)		2		
	1141084	Flat bar roller (3,0m)			2	
	1141097	Flat bar roller (3,75m)				2
3	1141132	Roller bar (2,0m)	2			
	1141001	Roller bar (2,5m)		2		
	1140927	Roller bar (3,0m)			2	
	1141033	Roller bar (3,75m)				2
4	0478950	Bearing UCF207	4	4	4	4
5	0229000	Bolt (countersunk) M16x60	16	16	16	16
6	0264090	Self-locking nut M16	32	32	32	32
7	0478971	Bearing UCF312	4	4	4	4
8	0229250	Bolt (countersunk) M20x70	16	16	16	16
9	0264110	Self-locking nut M20	32	32	32	32
10	1140818	Roller arm	2	2	2	2
11	1140833	Roller arm	2	2	2	2
12	0236470	Bolt M24x160	4	4	4	4
13	0264130	Self-locking nut M24	4	4	4	4
14	0272330	Facet plate Ø24	8	8	8	8
15	0236010	Bolt M16x220mm	16	16	16	16
16	0272290	Facet plate Ø16	32	32	32	32
17	1141175	Bead	4	4	4	4
18	1141103	Spacer (only when Square Tube Roller is mounted)	4	4	4	4

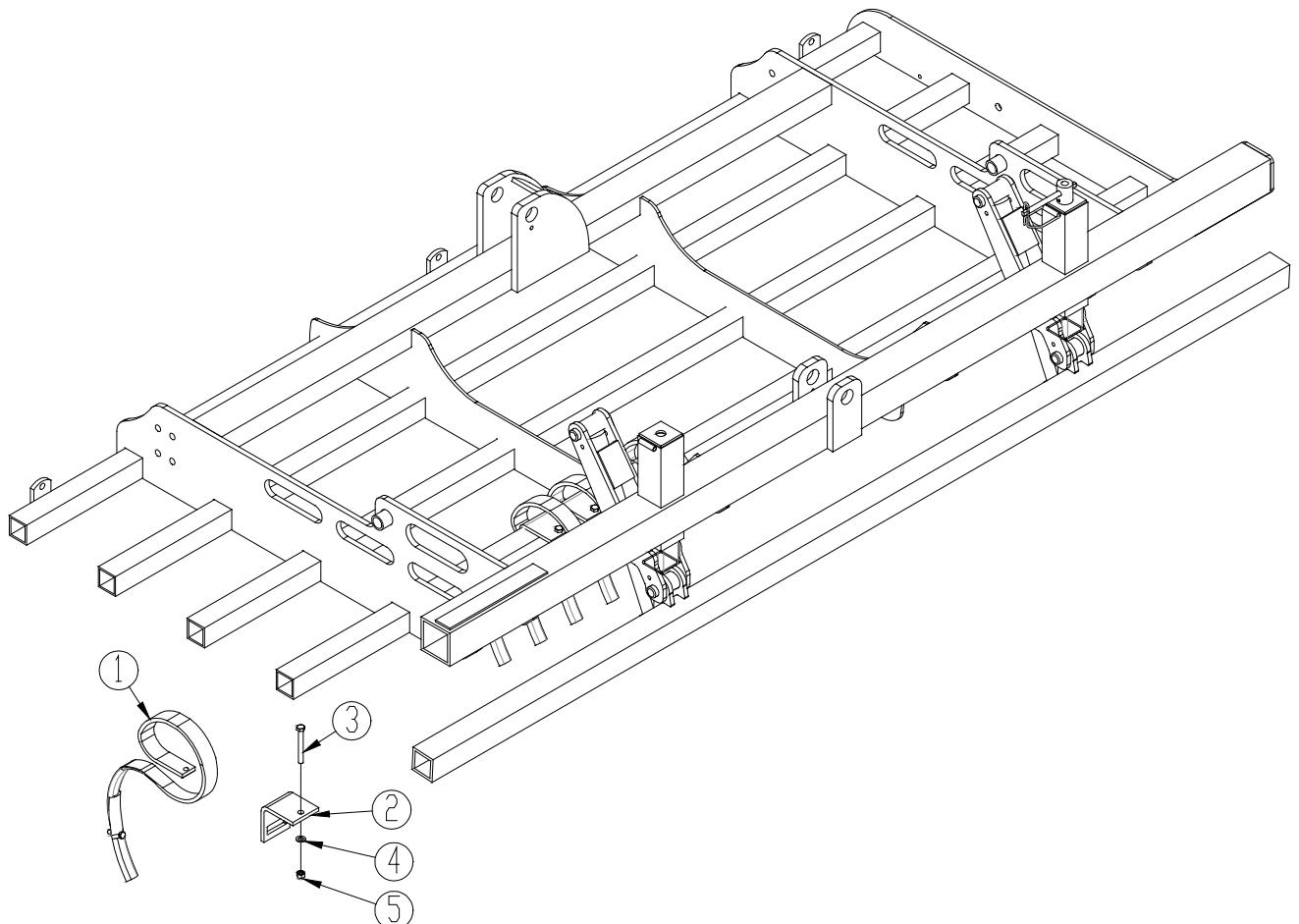
Long finger harrow

Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	0382160	U-bolt M16x100x100x100	12	12	12	12
2	1140945	Bracket for long finger harrow (single roller)	6	6	6	6
	1140988	Bracket for long finger harrow (double roller)	6	6	6	6
3	0264090	Self-locking nut M16	24	24	24	24
4	0272290	Facet plate Ø16	24	24	24	24
5	690103197	Bolt M16x50	12	12	12	12
6	1140966	Slideway	6	6	6	6
7	1170467	Spindle	6	6	6	6
8	0431250	Pressure spring	6	6	6	6
9	1011470	Bearing f/spindle	6	6	6	6
10	1036260	Crank handle	6	6	6	6
11	0431980	Locking hoop	6	6	6	6
12	0371660	Retaining pin Ø8x32	6	6	6	6
13	1170468	Arm f/after-harrow	6	6	6	6
14	0236190	Bolt M20x100	6	6	6	6
15	0272310	Facet plate Ø20	6	6	6	6
16	0264110	Self-locking nut M20	6	6	6	6
17	1012300	Spindle nut	6	6	6	6
18	1170469	Adjusting unit	6	6	6	6
19	0382120	U-bolt M12 40x40x40	6	6	6	6
20	0235440	Bolt M12x80	6	6	6	6
21	0264070	Self-locking nut M12	18	18	18	18
22	0272270	Facet plate Ø12	12	12	12	12
23	1170478	Pin Ø12 L=58	6	6	6	6
24	0377400	R-clip	6	6	6	6
25	1141123	Bar	2			
	1141008	Bar		2		
	1140910	Bar			2	
	1141028	Bar				2
26	0426125	Long finger tine Ø12x100 curved	40	50	60	70
27	1012520	Clamping plate	40	50	60	70

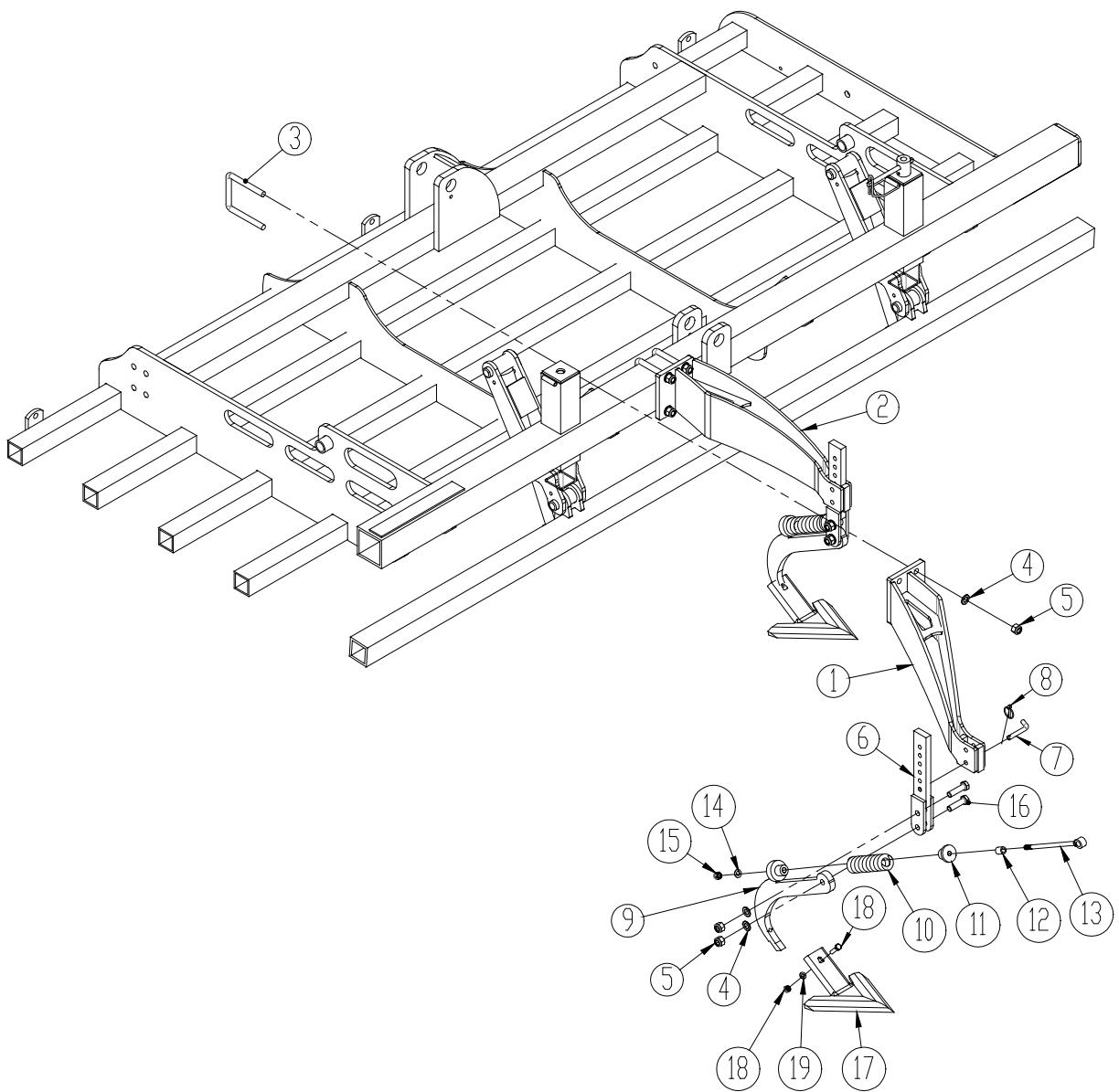
Spring-Board (back)


Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	1141130	Bracket f/cylinder	2	2	2	2
2	1141144	Bush Ø30/Ø25 L=71	2	2	2	2
3	0272330	Facet plate Ø24	4	4	4	4
4	0236460	Bolt M24x150	2	2	2	2
5	0264130	Self-locking nut M24	2	2	2	2
6	1141129	Clamping plate	2	2	2	2
7	0235950	Bolt M16x150	8	8	8	8
8	0272290	Facet plate Ø16	72	72	72	72
9	0264090	Self-locking nut M16	36	36	36	36
10	1140941	Cylinder	2	2	2	2
	0465970	Gasket kit				
11	1170115	Slideway	2	2	2	2
12	0236210	Bolt M20x120	2	2	2	2
13	0272310	Facet plate Ø20	4	4	4	4
14	1141145	Bush Ø25/Ø22 L=71	2	2	2	2
15	0264110	Self-locking nut M20	2	2	2	2
16	0382150	U-bolt M16x70x70x70	4	4	4	4
17	1141228	Bar (V)	1			
	1141229	Bar (H)	1			
	1141230	Bar (V)		1		
	1141231	Bar (H)		1		

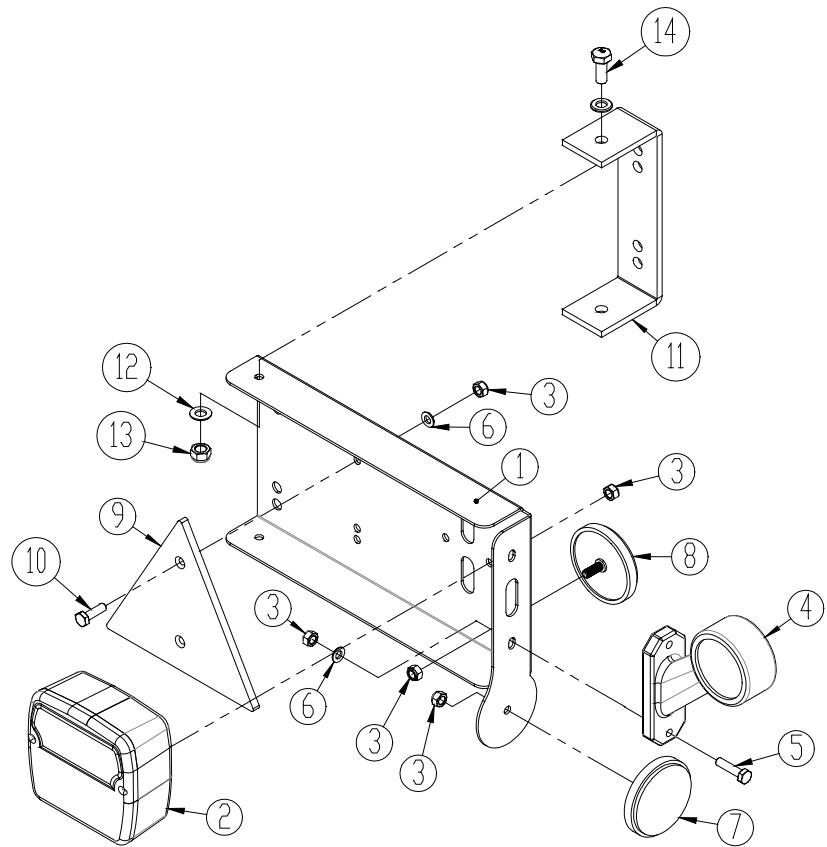
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
	1141232	Bar (V)			1	
	1141233	Bar (H)			1	
	1141234	Bar (V)				1
	1141235	Bar (H)				1
18	1141141	Stabilising bar	2			
	1141142	Stabilising bar		2		
	1141140	Stabilising bar			2	
	1141143	Stabilising bar				2
19	1170098	Spring-Board bearing	6	6	6	6
20	0235810	Bolt M16x50	24	24	24	24
21	0422140	Tine 45x10mm	18	22	26	34
22	0422368	Tine bracket 45x10	18	22	26	34
23	0235470	Bolt M12x110	18	22	26	34
24	0272270	Facet plate Ø12	54	66	78	102
25	0264070	Self-locking nut M12	36	44	52	68
26	0422143	Wearing plate 150x8mm	18	22	26	34
27	0248660	Carriage bolt M12x40	18	22	26	34
28	1141227	Scale	1	1	1	1
29	0382130	U-bolt M12x60x60x60	2	2	2	2
30	1141222	Pointer	1	1	1	1
31	0382150	U-bolt M16x70x70x70	1	1	1	1

Wheel track eradicator - 60mm longer tines

Pos.	Item no.	Designation	No.
1	0422185	Tine w/point 13x65 extra long	8
2	0422394	Tine bracket	8
3	0235460	Bolt M12x100	8
4	0272270	Facet plate Ø12	8
5	0264070	Self-locking nut M12	8

Wheel track eradicator (goose foot points)

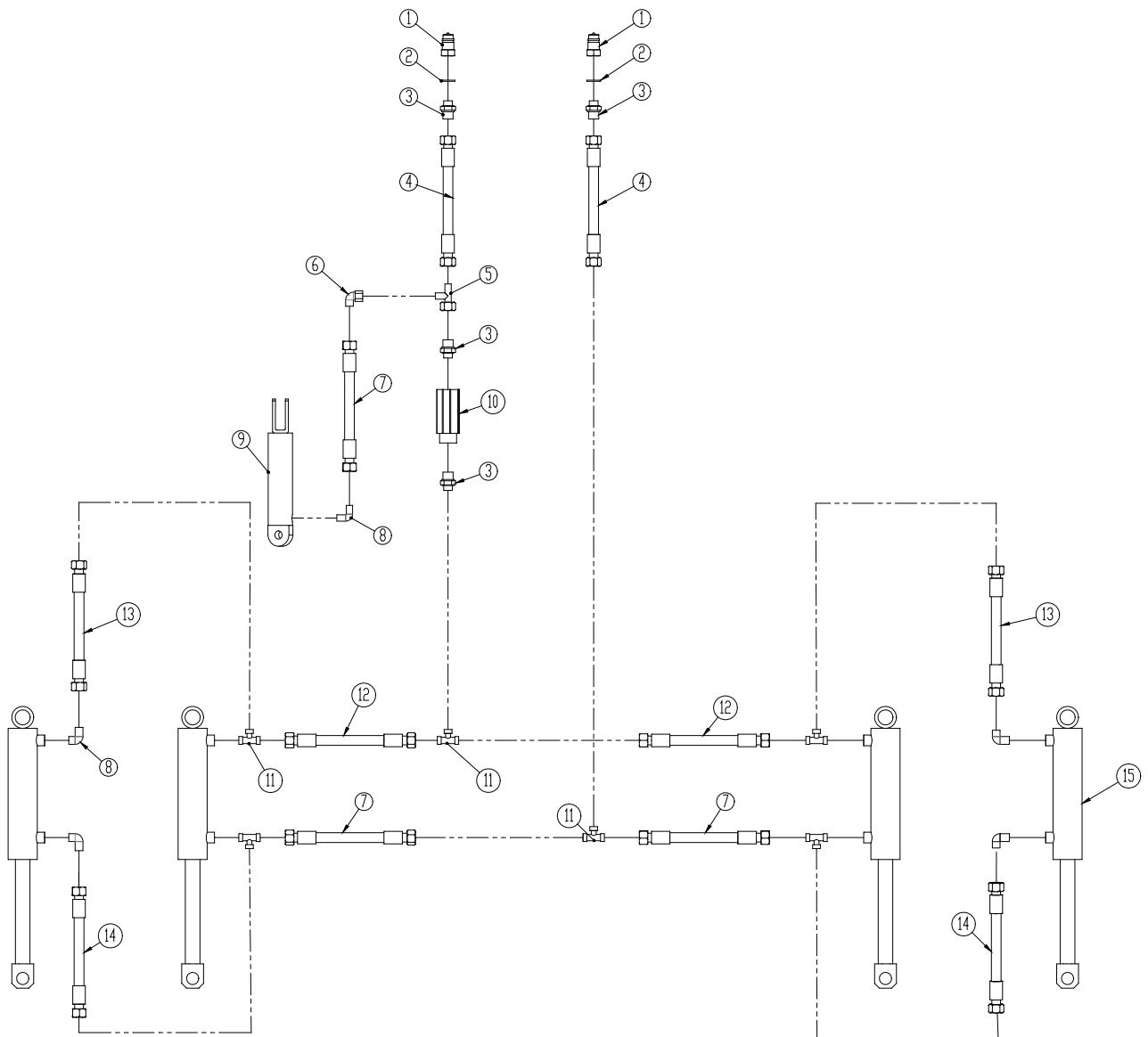
Pos.	Item no.	Designation	No.
1	1140961	Bracket f/wheel track eradicator (R)	2
2	1140975	Bracket f/wheel track eradicator (L)	2
3	0382160	U-bolt M16x100x100x100	8
4	0272290	Facet plate Ø16	24
5	0264090	Self-locking nut M16	24
6	1140932	Pierced bracket f/wheel track eradicator	4
7	1170478	Pin Ø12	4
8	0378200	Ring split Ø4,5	4
9	1140935	Tine	4
10	0431427	Pressure spring	4
11	1140938	Centring ring f/spring	4
12	1140939	Bush	4
13	1140940	Bolt	4
14	0272270	Facet plate Ø12	4
15	0264070	Self-locking nut M12	4
16	690103133	Bolt M16x60	8
17	0422770	Plane share	4
18	0386220	Cultivator bolt w/nut M10x45	4
19	0272260	Facet plate Ø10	4

LED-Light

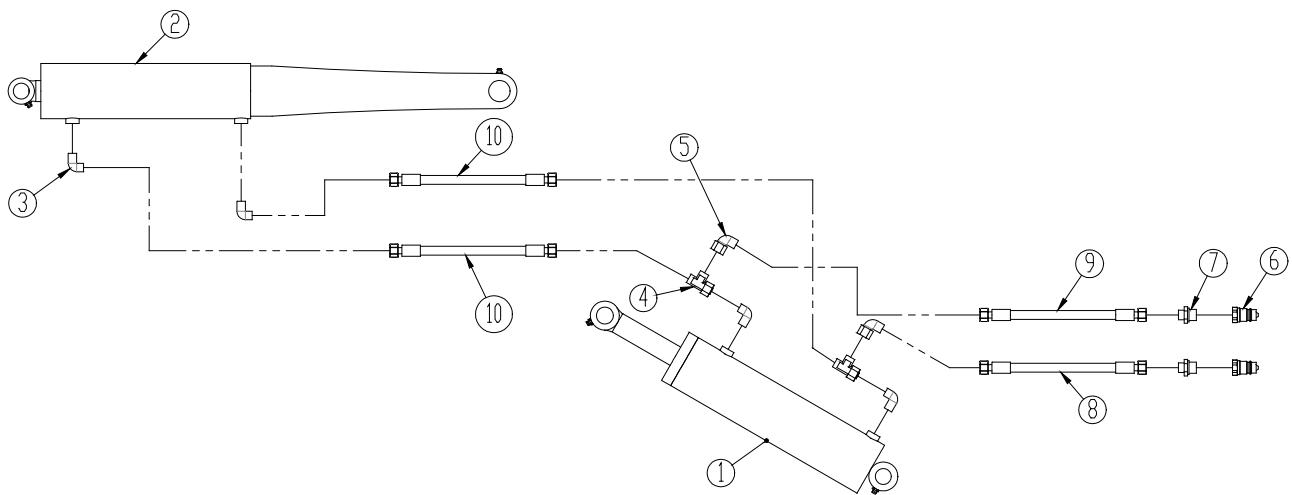
Pos.	Item no.	Designation	No.
1	7357505	Light bracket, left	1
	7357508	Light bracket, right	1
2	7357504	Rear light	2
3	0264030	Self-locking nut M5	16
4	7357507	Marking lights (left)	1
	7357509	Marking lights (right)	1
5	0234860	Bolt M5x20	4
6	0272230	Facet plate Ø5	8
7	0656240	Reflex, yellow	2
8	0656250	Reflex, white	2
9	0521030	Reflex, red	2
10	0234860	Bolt M5x20	4
11	7357516	Bracket	2
12	0272240	Facet plate Ø6	8
13	0264040	Self-locking nut M6	4
14	0234330	Bolt M6x20	4

Hydraulics

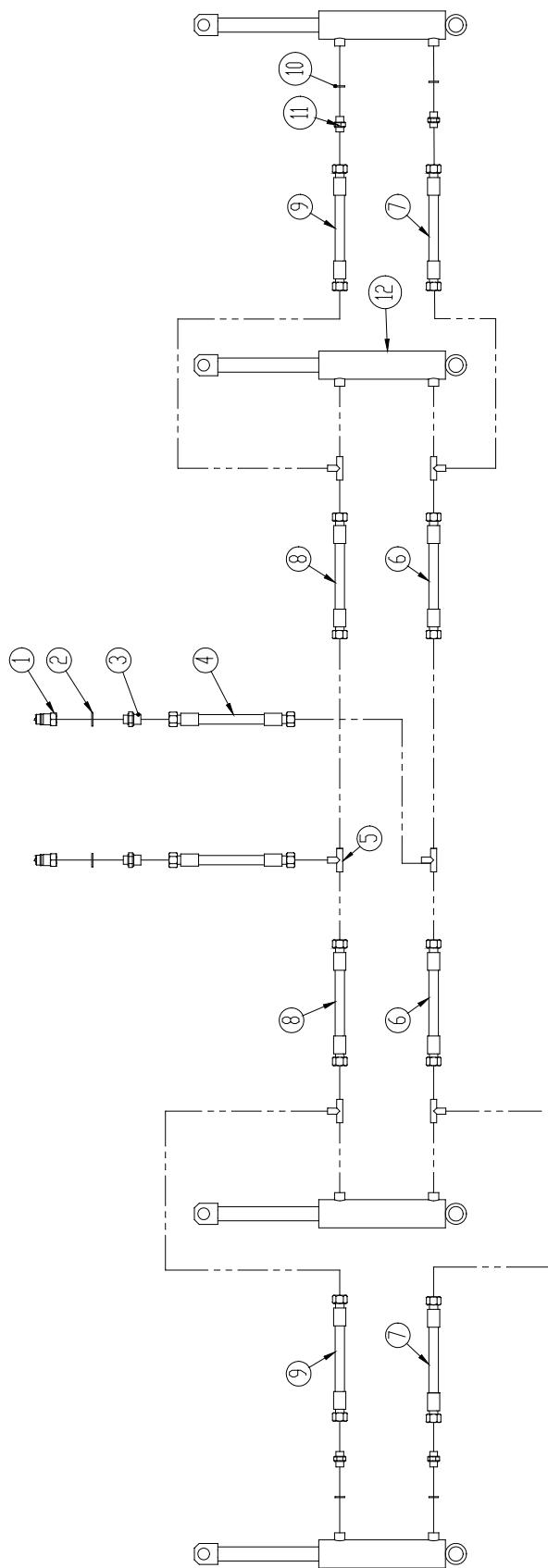
Wing sections



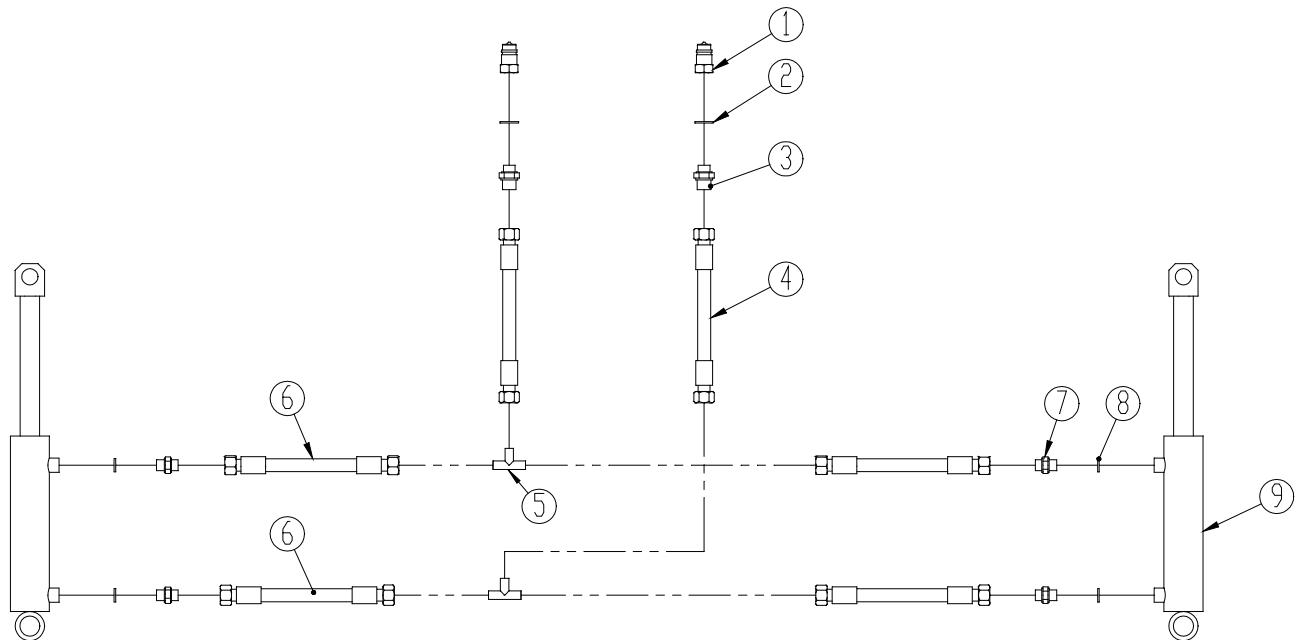
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	0444020	Quick-acting coupling $\frac{1}{2}''$	2	2	2	2
2	0449070	Bonded seal $\frac{1}{2}''$	2	2	2	2
3	0444490	Hexagon nipple $\frac{1}{2}'' \times \frac{1}{4}''$	4	4	4	4
4	690201025	Hydr. hose 5640mm $\frac{1}{4}''$ st/st	2	2	2	2
5	690203015	T-fitting ø10	1	1	1	1
6	0446678	Adjustable fitting, 90° angle 10mm	1	1	1	1
7	0454250	Hydr. hose 1010mm $\frac{1}{4}''$ st/st	3	3	3	3
8	690203006	Fitting, 90° angle 10-3/8" BSP	1	1	1	1
		Fitting, 90° angle 10-3/8" BSP (V-profile models)				5
9		See pos 21 page 16	1	1	1	1
10	0442450	Sequential valve $\frac{1}{2}''$ inside tube 30-12	1	1	1	1
11	690203014	Adjustable T-fitting Ø10L	6	6	6	6
12	690201042	Hydr. hose 500mm $\frac{1}{4}''$ st/st	2	2	2	2
13	0454215	Hydr. hose 820mm $\frac{1}{4}''$ st/st (V-profile models)				2
14	690201046	Hydr. hose 1660mm $\frac{1}{4}''$ st/st (V-profile models)				2
15		See pos 16 page 16	2	2	2	2
		See pos 16 page 16 (V-profile models)				4

Wheel support

Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1		See pos 6 page 14	1	1	1	
		See pos 6 page 14				1
2		See pos 11 page 16	1	1	1	
		See pos 11 page 16				1
3	0446200	Adjustable fitting, 90° angle 3/8"	4	4	4	4
4	0446502	Adjustable T-fitting Ø12mm/O-ring	2	2	2	2
5	0446679	Adjustable fitting, 90° angle Ø12mm	2	2	2	2
6	0444020	Quick-acting coupling ½"	2	2	2	2
7	690203103	Fitting, straight ½" Ø12	2	2	2	2
8	690201231	Hydr. hose 3320mm 3/8" st/st	1	1	1	1
9	690201232	Hydr. hose 3520mm 3/8" st/st	1	1	1	1
10	690201202	Hydr. hose 2025mm 3/8" st/st	2	2	2	2

Spring-Board (front)

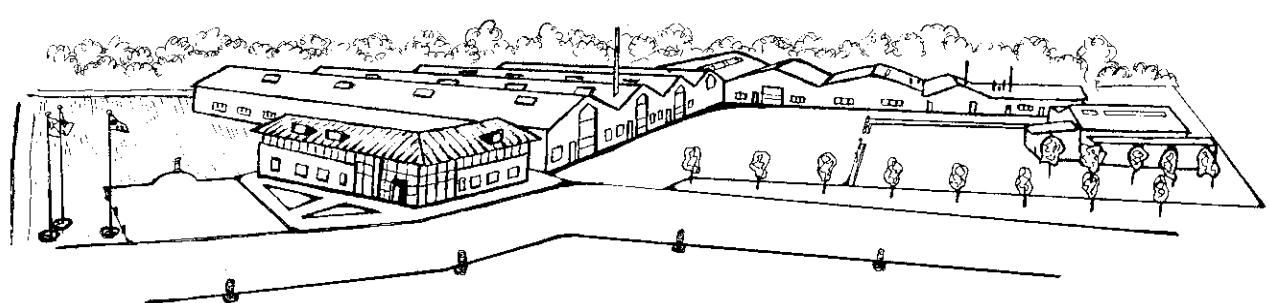
Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	0444020	Quick-acting coupling ½"	2	2	2	2
2	0449070	Bonded seal ½"	2	2	2	2
3	0444490	Hexagon nipple ½" x ¼"	2	2	2	2
4	0454997	Hydr. hose 5400mm ¼" st/st	2	2	2	2
5	0446510	T-fitting ¼"	6	6	6	6
6	0454560	Hydr. hose 1850mm ¼" st/90°	2	2	2	2
7	0454310	Hydr. hose 1100mm ¼" st/90°	2	2		
	0454550	Hydr. hose 1700mm ¼" st/90°			2	
	0454810	Hydr. hose 2800mm ¼" st/90°				2
8	0454550	Hydr. hose 1700mm ¼" st/90°	2	2	2	2
9	0454451	Hydr. hose 1500mm ¼" st/90°	2	2		
	0454590	Hydr. hose 2000mm ¼" st/90°			2	
	0454890	Hydr. hose 3000mm ¼" st/90°				2
10	0449050	Bonded seal 1/4"	4	4	4	4
11	0444500	Hexagon nipple ¼"	4	4	4	4
12		See pos 22 page 22	4	4	4	4

Spring-Board (rear)


Pos.	Item no.	Designation	4 m	5 m	6 m	7,5m
1	0444020	Quick-acting coupling ½"	2	2	2	2
2	0449070	Bonded seal ½"	2	2	2	2
3	0444490	Hexagon nipple ½" x ¼"	2	2	2	2
4	0454997	Hydr. hose 5400mm ¼" st/90°	2	2	2	2
5	0446510	T-fitting ¼"	2	2	2	2
6	0454590	Hydr. hose 2000mm ¼" st/90°	4	4	4	4
7	0444500	Hexagon nipple ¼"	4	4	4	4
8	0449050	Bonded seal 1/4"	4	4	4	4
9		See pos 10 page 30	2	2	2	2

Notes

skiner til vækst
Maskiner til vækst



The design is subject to modification without notice.