

Operating and Parts manual

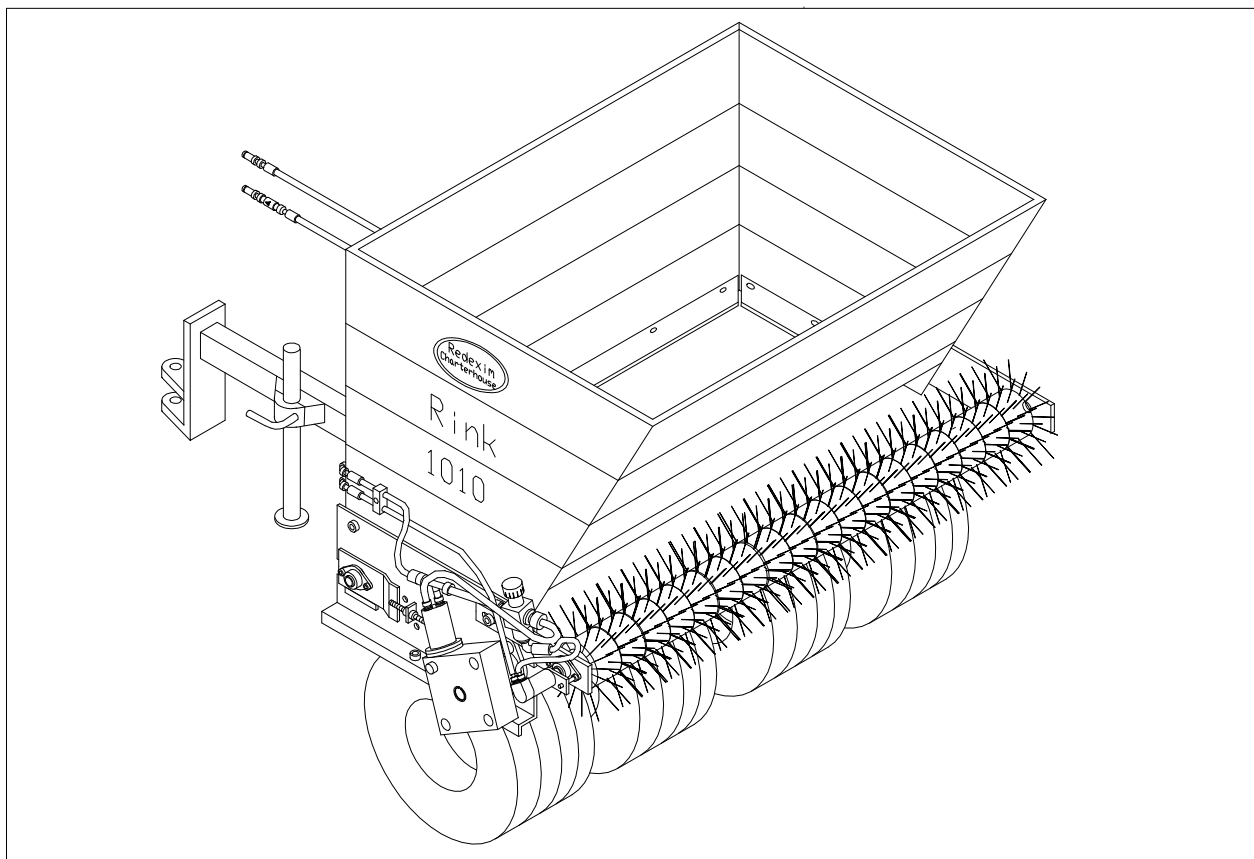
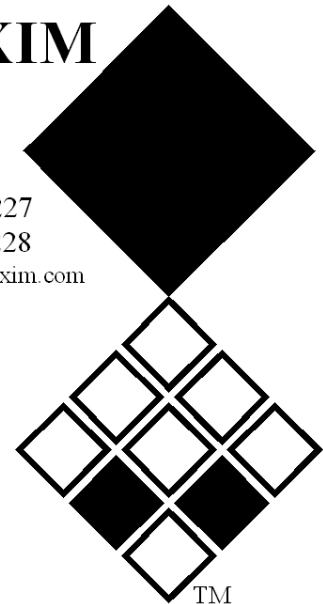
RINK

Model 1005 & 1010

Serial number:

REDEXIM

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NOTE:

IN ORDER TO ENSURE THE SAFE USE AND TO ACHIEVE THE BEST PERFORMANCE, IT IS ESSENTIAL THAT THIS OPERATING MANUAL IS CAREFULLY READ BEFORE THE RINK IS USED.

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Technical alterations reserved.

Parts marked with [#] are only available as additional equipment.



SAFETY REGULATIONS



- (1) The **Topdresser 1005/ 1010** is built **solely for spreading small-grained**, loose material such as sand, small granular material or similar products.
Any other usage is not in accordance with the indicated use. The manufacturer **does not answer for any damage resulting from incorrect usage**. The user alone has to incur the risk.
Usage in accordance with the intended use also includes **compliance with the manufacturer's conditions of operation, maintenance and repair**.
- (2) The spreader is built according to prior art and operationally reliable; however, **the spreader could put life and limb of the operator or of third persons at risk** if it is not used, maintained and repaired by persons who are familiar with it and have been informed of the dangers.
- (3) Any person who, in the plant of the user, is responsible for the operation, maintenance and repair of the spreader, **must have read and understood** the operating instructions and, in particular, this chapter, **Safety Regulations**.
Detach the spreader from the towing vehicle during maintenance and service work.
Only use **original spare** parts from the manufacturer for repairs.
Alongside the references in these operating instructions, **the general regulations for safety and for prevention of accidents must be observed**.
When using public roads, the corresponding provisions (e.g. StVZO) will be in force.
Accompanying persons are not allowed !
- (4) A spreader may only be towed along public roads once it **holds the necessary registration**. Complete road-worthiness certificate, licensing permit and the additional safety facilities necessary for this (Lighting set, wheel chocks)[#] are obtainable on request of the customer.
- (5) The operator is obliged to **check the spreader for any external damage or failure before putting it into operation**. Any changes (including operating performance) which might affect safety must immediately be remedied. Changes to and rebuilding of the spreader (other than changes allowed by the manufacturer) are, for reasons of safety, not allowed.



SAFETY REGULATIONS



- (6) Before starting work, the operator must make himself familiar with all fittings and controls as well as their functioning.
Spreaders must be properly attached (**Risk of injuries !**)
Before driving away, check the immediate vicinity and care for a good field of vision.
- (7) **Whilst spreading is in operation, no one is allowed to enter the loading ramp.**
A label with this notice is stuck on both sides of the spreader. This notice must always be well legible and has to be replaced if damaged!
- (8) Whilst the spreader is in operation, do not enter the zone of danger of the spreader since rotating parts and foreign flying particles might cause any injuries.
- (9) Adjusting and repair work on axle (wheel bearings, tyres) must only be undertaken by properly trained and authorised personnel.
- (10) Before starting work on the hydraulic system, it is important that it is without pressure.
The hydraulic hose pipes must be regularly checked and replaced if damaged or worn out. The replacement hose pipes must conform with the manufacturer's technical requirements.
- (11) The authorized supporting load on the towing vehicle should be noted.
- (12) A sound level of 74 dB (a) is emitted in the immediate vicinity of the brush roller on the Topdresser 1005/1010.

Used oil damages the environment; please dispose of carefully

SHORT DESCRIPTION

The Topdresser 1005/ 1010 is used for spreading small-grained, loose material, such as sand, small granular material or similar products. The spreading equipment of the Topdresser is driven by a gear box with hydraulic motor for conveyor belt and a separate hydraulic motor for the brush roll. The number of revolutions of the hydraulic system for the conveyor belt can be continuously adjusted by means of a flow divider. Spreading density or spreading amount can be determined by the spreader speed and conveyor belt speed.

Technical Data

Dimensions	<u>1005</u>	<u>1010</u>
Lengt	1.10 m (44").....	1.87 m (74 “)
Width	1.74 m (66 “)	
Height	1.00 m (40").....	1.30 m (51”)
Loading capacity	0.65 m ³ (0.85 cu yd)	
Weights		
Authorized total weight	1700 Kg (3740 lbs)	1700 kg (3740 lbs)
Authorized axle load	--	1300 kg (2860 lbs)
Authorized supporting load	--	400 kg (880 lbs)
Empty weight	approx. 190 kg (420 lbs)	270 Kg (600 lbs)
 Spreading width	 1.50 m (59”)	
 Tyre equipment	 3-point linkage (no tyres)	 4 Swing tyres Trelleborg Garden Slick 18x9.50-8
 Tyre pressure	 --	 0.65 bar (9 PSI)
 Speed limit	 30 km/h (19 mph)	
 Towing capacity	 30 HP, Min 1200 Kg (2600 lbs) lift capacity	 min 13 Kw (16HP)
 Spreading amount	 continuously adjustable	
 Hydraulic connected load		
Minimum conveying capacity towing vehicle	12 l/min (3.1 US gal/min)	
Minimum pressure towing vehicle	70 bar (980 PSI)	

The typeplate is fastened onto the front right-hand side of the spreader

INITIAL OPERATING

- * **Should the spreader be used on public roads**
(German law: only possible with licensing certificate and registration)

- Attach license plate to plate holder at the left-handed rear side.
- Check lighting set[#].

- * **After the first ride with a full load**

- Retighten wheel nuts.
- Check wheel hub clearance and have it adjusted, if necessary.
- Test tyre pressure.

OPERATION

Before every ride

- Check for any externally recognizable failures or damage and repair them.
- Check tyre pressure.
- Check lighting[#].
- Check conveyor belt tread, reset if necessary. Conveyor belt must not graze the sides.

OPERATION

Coupling and taking off

- Attach spreader to towing vehicle.
- Carry out hydraulic connection:
 - Pressure pipe positioned below, return pipe above, Oil circulation is required.
In the factory, the hydraulic system was filled with the hydraulic liquid CG46.
- With External Oil Supply[#], mount the plug-on pump on the PTO driver on the tractor and secure against slippage using the mounted torque support.
(PTO speed 450 rpm).

To ensure optimum operation, the oil temperature should have reached a temperature of around 25°C before starting work (see viewing window at the oil tank). Check the oil level before starting work (centre of the oil viewing window).

- Plug the seven-pole plug[#] into towing vehicle.



**Hydraulic hoses in such a way that they do not drag
to the ground or chafe at the towing vehicle.**

Taking off the spreader is carried out in an analogous way.

Loading

- Pay attention to the desired maximum ground pressure.
- When loading, pay attention for the authorized total weight.

SPREADING

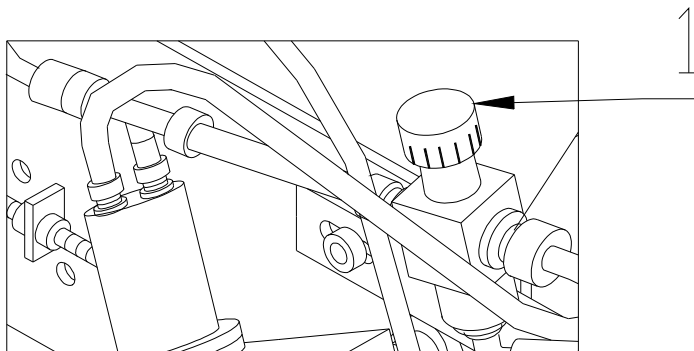
Controls:



The brush roller speed can only be controlled by the tractor revs.

1 Regulator for setting the speed of the conveyor belt:

Scale distribution 0 to 10



Adjusting spreading thickness:

The spreading thickness (mm) is dependent on

- the speed of the towing vehicle
- the speed of the conveyor belt (regulator)

Set the required spreading thickness on a firm surface before starting work.

Set the controller for the conveyor belt speed to the required value.

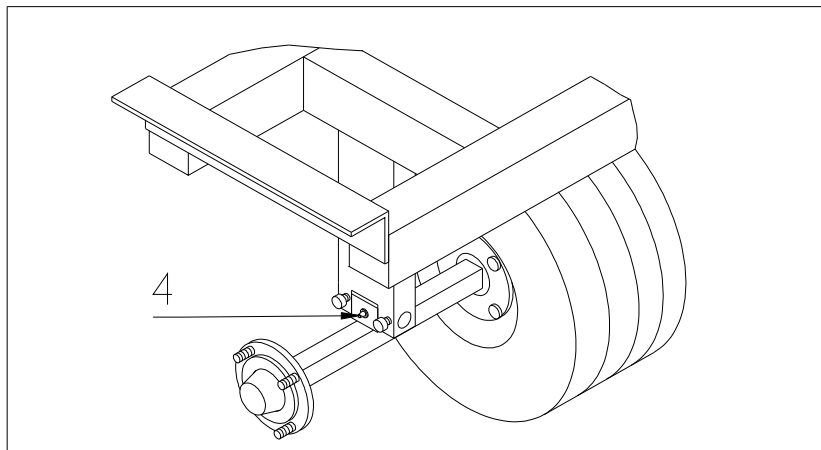
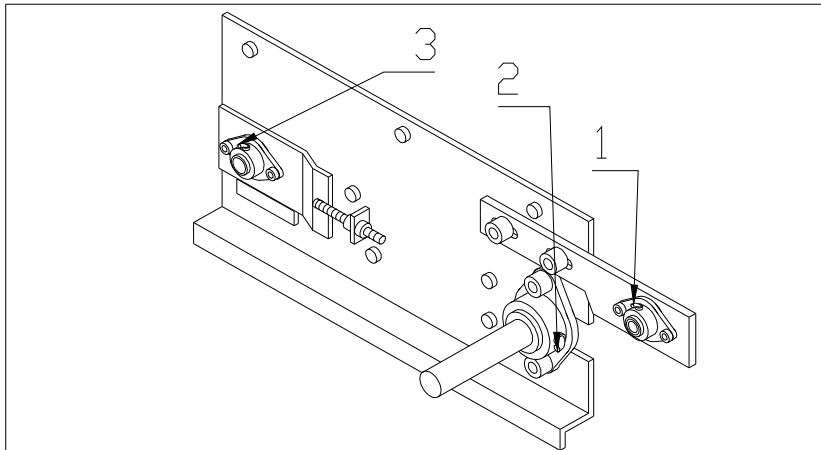
REPAIR AND MAINTENANCE

Lubricate spreader (every 50 operating hours)

Lubricate with multi-purpose grease:

- 1 Bearings on both sides of the brush roll
- 2 Bearings on both sides of the rear conveyor shaft
- 3 Bearings on both sides of the front conveyor shaft
- 4 Bearings on both sides of the drive axle

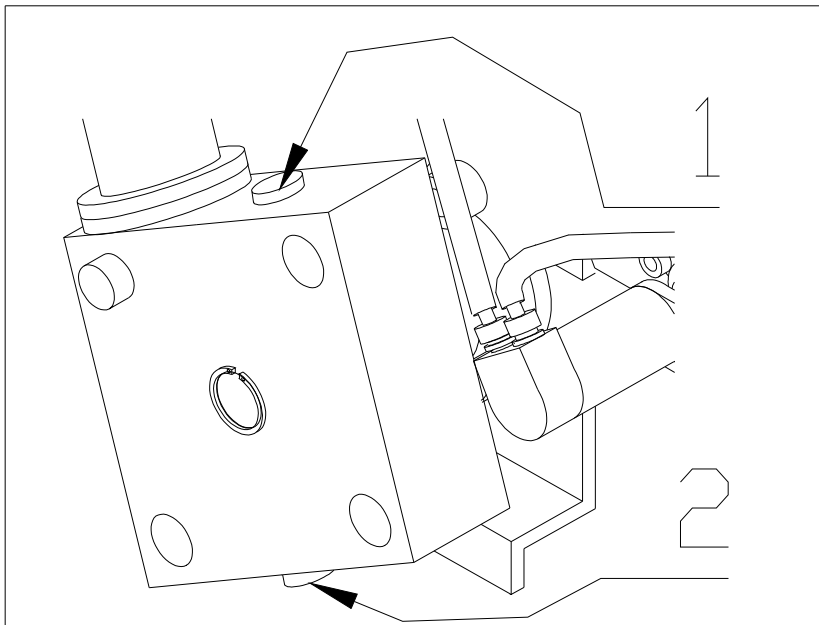
Bearings without a lubricating nipple require no greasing.



REPAIR AND MAINTENANCE

Oil change for conveyor belt gears (every 2 years.)

- Unscrew filler screw (1).
- Loosen drain plug (2) from the below inside area and drain off oil.
- Screw on drain plug with new gasket.
- Add 0.6 l Oil **SAE 120 to 140**.
- Screw on filler screw with the new gasket.



Axle maintenance (every 100 operating hours)



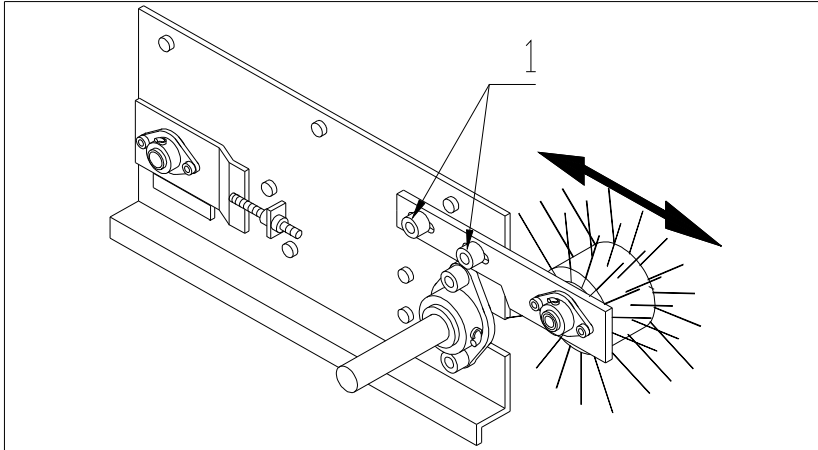
Maintenance work on the axle should only be carried out by fully trained and authorised personnel.

- Retighten wheel nuts.
- Check wheel hub clearance and have it adjusted, if necessary

REPAIR AND MAINTENANCE

Adjust distance between the brush and belt (according to requirements)

- Loosen the two screws (1) on each side of the brush roll.
- Move the brush roll until it slightly contacts the conveyor belt.
- Retighten screws (1).

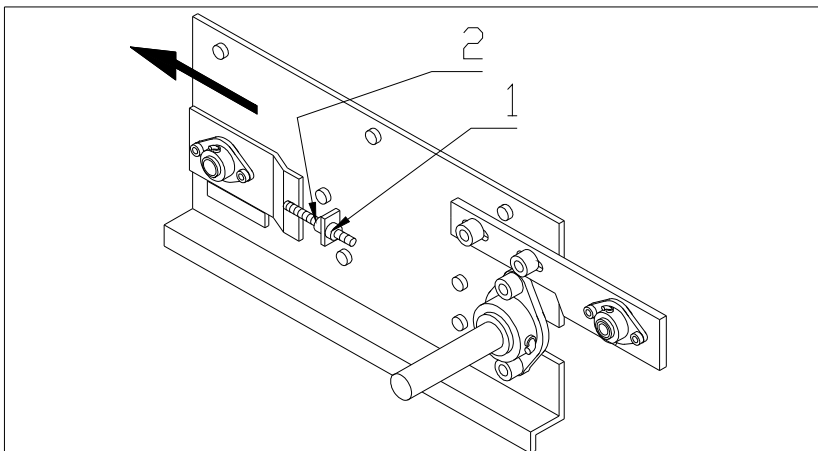


Stretch conveyor belt (in case of slipping)

- Loosen counternut (1).
- Turn nut (2) once clockwise.
- Tighten counternut.



Excessive stretching can reduce the life span of the conveyor belt.

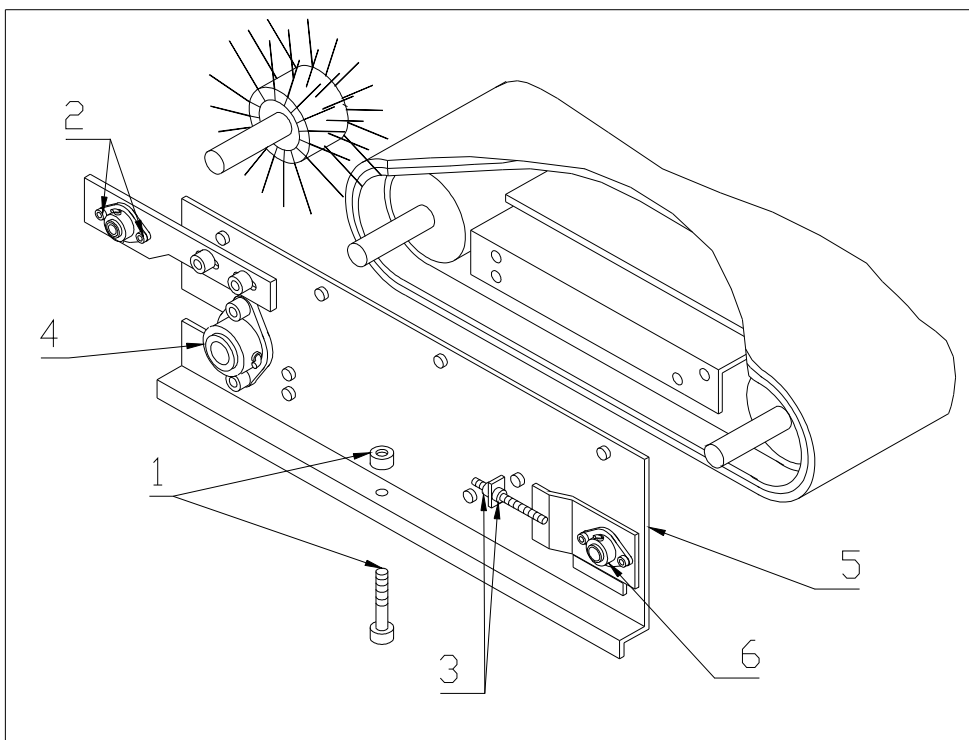


REPAIR AND MAINTENANCE

Installing and removing the conveyor belt

- Loosen screws on both sides (1) and remove the chassis.
- Remove the brush roller by loosening the screws (2).
- Release the tension on the conveyor belt on both sides (3).
- Remove the bearing on the right seen in the direction of travel (4).
- Pull away the side element (5) with tension bearing (6).
- Remove the conveyor belt.

The reassembly takes place in reverse order.



Stretching conveyor belt after assembly

- Tension the conveyor belt on both sides evenly using the two tension screws until the marked length is stretched to 487 mm [19.17"](distance between centres).
- Allow the conveyor belt to run in for approx. 30 minutes until it runs centrally.

The conveyor belt should not graze the sides. If readjustment is necessary increase tension on the side which is doing the grazing.

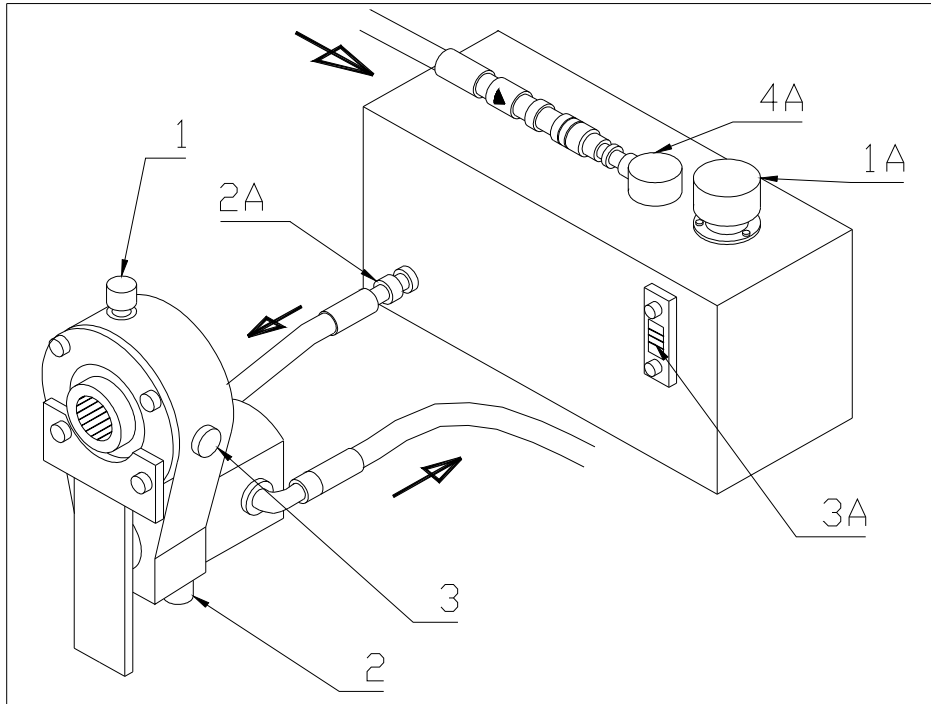
Too much tension will reduce the life span of the conveyor belt.

REPAIR AND MAINTENANCE

External hydraulic unit[#]

Oil change for the hydraulic pump (every 100 operating hours)

- Unscrew filler screw (1).
- Loosen drain plug (2) and drain off oil.
- Screw on drain plug with new gasket.
- Add oli **SAE 90** right up to the level of the control screw (3).
- Screw on filler screw with new gasket.



Oil change for the hydraulic tank (according to requirements)

- Unscrew the filling nozzle (1A).
- Release the suction hose (2A) and drain off the oil.
- Screw the suction hose back into place.
- Top up with **Bio-Hydraulic oil CG 46** until the level reaches the centre of the viewing window (3A).
- Screw the filling nozzle back on.

Please note:



This is a closed hydraulic circuit. In order to prevent the ingress of contaminants, the runback filter (4A) must be replaced every 100 operating hours.

Parts list

RINK 1005/ 1010

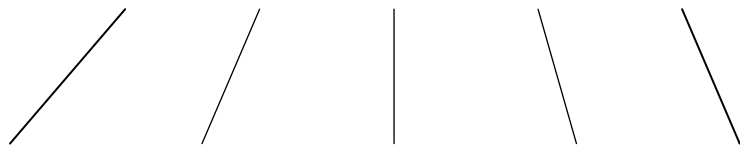
(Only most important parts are mentioned)

Ordering spare parts

To ensure that your spare parts order can be processed quickly, always specify the following data when ordering.

- Chassis number / Ident. number
- Model (year of construction if available)
- Part number from respective spare parts list
- Designation
- Order number

Ordering example: 529413 1994 13 Conveyor belt 10524



Chassis number

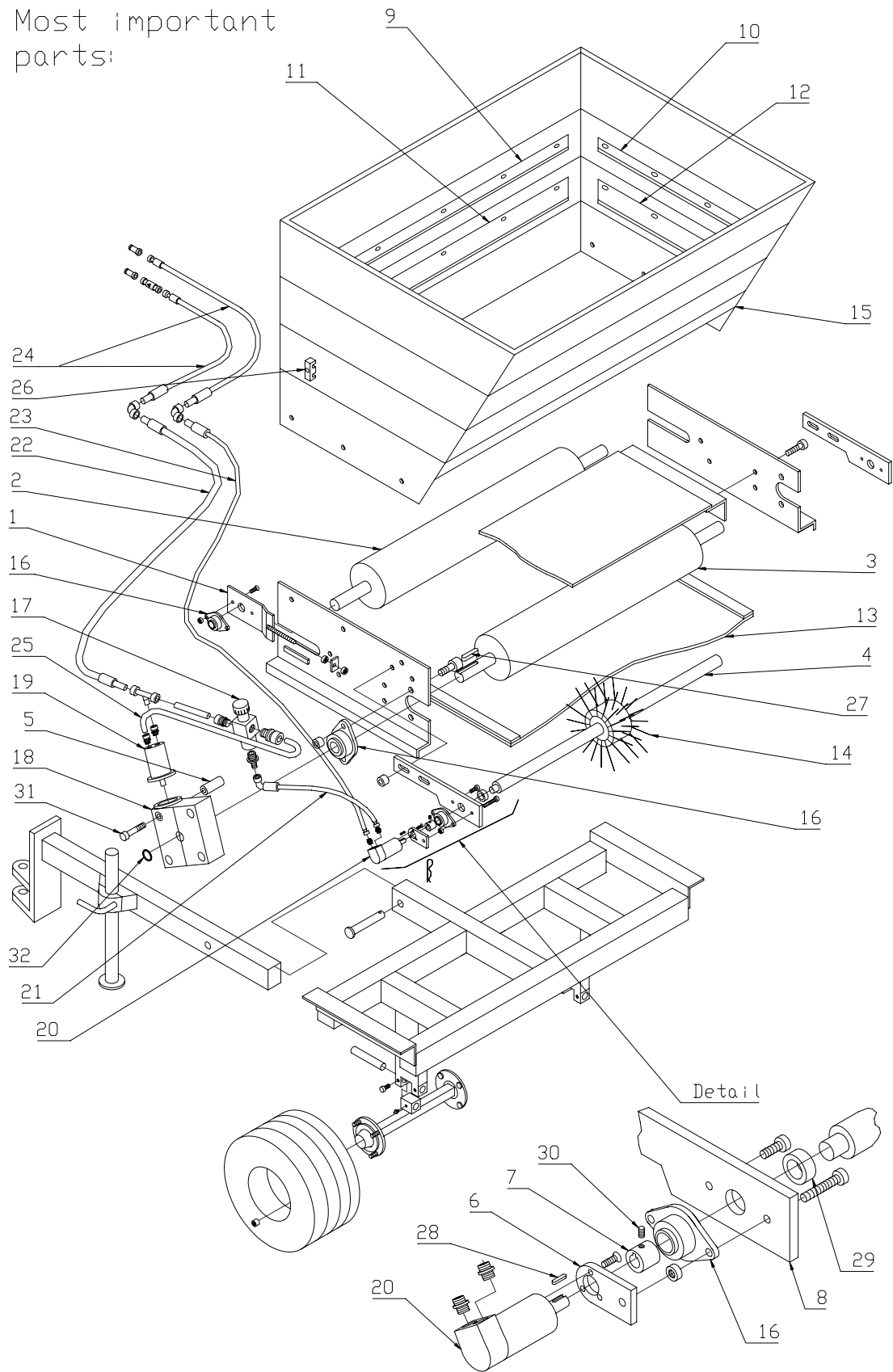
Model

Part no.

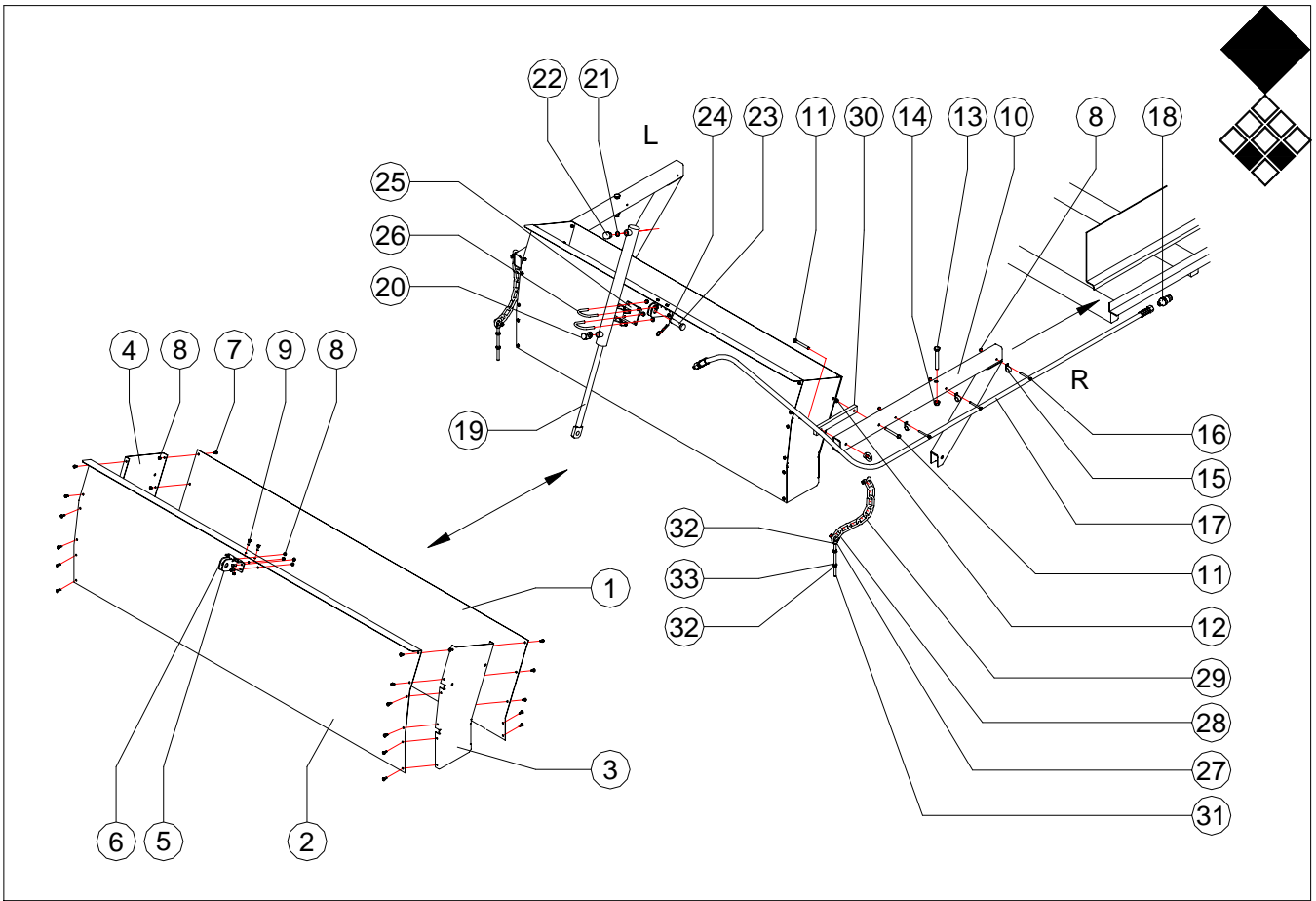
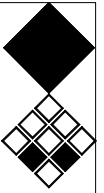
Designation

Order no.

RINK 1005/1010
Most important
parts:

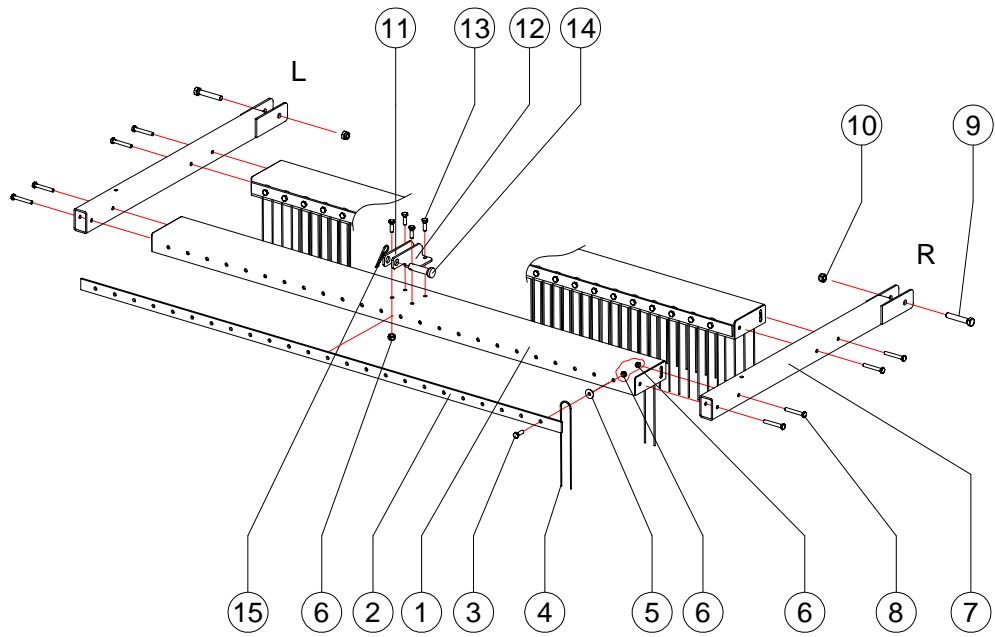
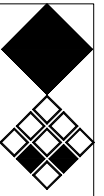


Part No.	Designation	Order No.	Remark
1	Clamping device	16112	
2	Transport roller front	16129	
3	Transport roller rear	16127	rubberized
4	Shaft for brush rolller	16159	
5	Torque support for conveyor belt drive system	16161	
6	Torque support for brush roller drive system	16157	
7	Connecting sleeve	16160	
8	Holder for brush roller	16115	
9	Clamp rail front	10015	30 x 4 x 1440 mm
10	Clamp rail aside	10021	30 x 4 x 540 mm
11	Rubber stripper front	10573	
12	Rubber stripper aside	10407	
13	Conveyor belt	10524	
14	Spreading roller unit	10162	
15	Hopper	10529	Aluminium
16	Flange bearing dia. 30 mm	11001	Lubrication instructions !
17	Regulator 12 l	10335	
18	Conveyor belt gear	10492	Oil change instructions !
19	Hydraulic motor for transport roller	10572	
20	Hydraulic motor for brush roller	10473	
21	Hydraulic hose NW 10x280	10673	
22	Hydraulic hose NW 10x400	10672	
23	Hydraulic hose NW 10x750	10671	
24	Hydraulic hose NW 10x2800	10667	
25	Hydraulic tube		Tube 12x1
26	Holder for hydraulic hose	10348	
27	Feather key 8x7x20	10100	
28	Feather key 6x6x25	10483	
29	Clamping Sleeve 8x30	10605	
30	Set screw M 8x6	10430	
31	Screw M 10x100	10600	
32	Circlip 30x1.5	11002	



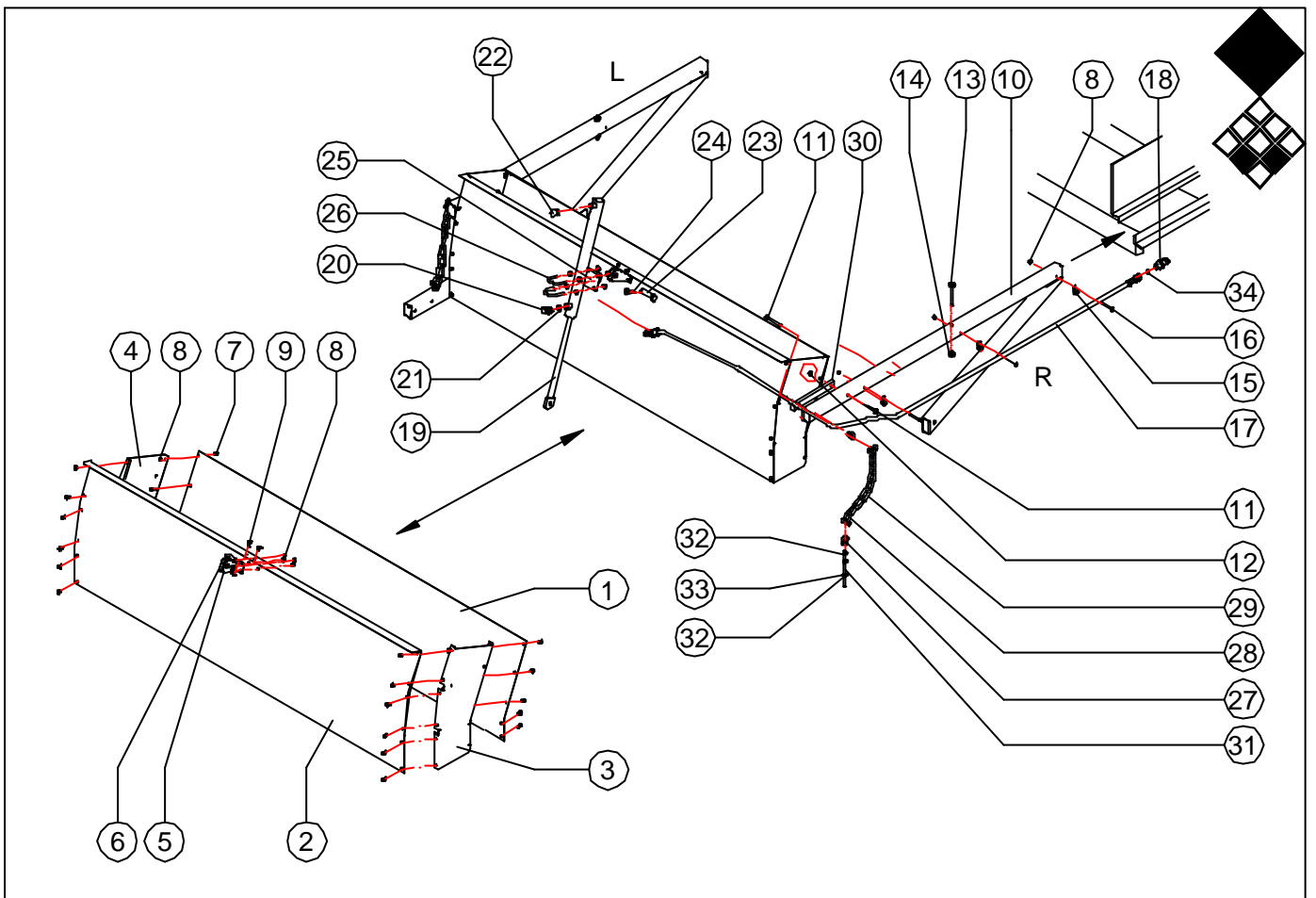
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	PART #	DESCRIPTION	REMARKS	QUA
1	469.029.151	Front plate		1
2	468.029.147	Back plate		1
3	468.025.322	Side plate right		1
4	468.025.320	Side plate left		1
5	468.041.160	Bracket right		1
6	468.041.162	Bracket left		1
7	804.060.120	Bolt M6 x 12		22
8	830.060.060	Self lock nut M6		28
9	804.060.160	Bolt M6 x 16		6
10	462.408.800	Frame		2
11	802.080.550	Bolt M8 x 55		4
12	830.080.080	Self lock nut M8		8
13	802.120.900	Bolt M12 x 90		2
14	830.120.120	Self lock nut M12		2
15	547.130.300	Hose clamp		3
16	804.060.550	Bolt M6 x 55		3
17	541.174.500	Hydraulic hose G3/8" 4,5m		1
18	545.210.800	Quick connector male 1/2 "		1
19	534.422.500	Hydraulic cylinder, stroke 250mm		1
20	543.170.120	Nipple G3/8"		1
21	874.170.020	Cupper washer 3/8"		1
22	537.380.360	Breather 3/8"		1
23	521.160.510	Lock pin		1
24	523.030.750	R-clip		1
25	466.060.702	Bracket		1
26	547.080.700	U-bolt		2
27	822.080.360	Eye nut		4
28	846.080.241	Dee shackle		4
29	864.064.300	Chain, 6 shackles		2
30	464.152.200	Distance strip		2
31	852.081.700	Threaded rod M8		2
32	226.080.080	Nut M8		2
33	864.080.030	Washer M8		4
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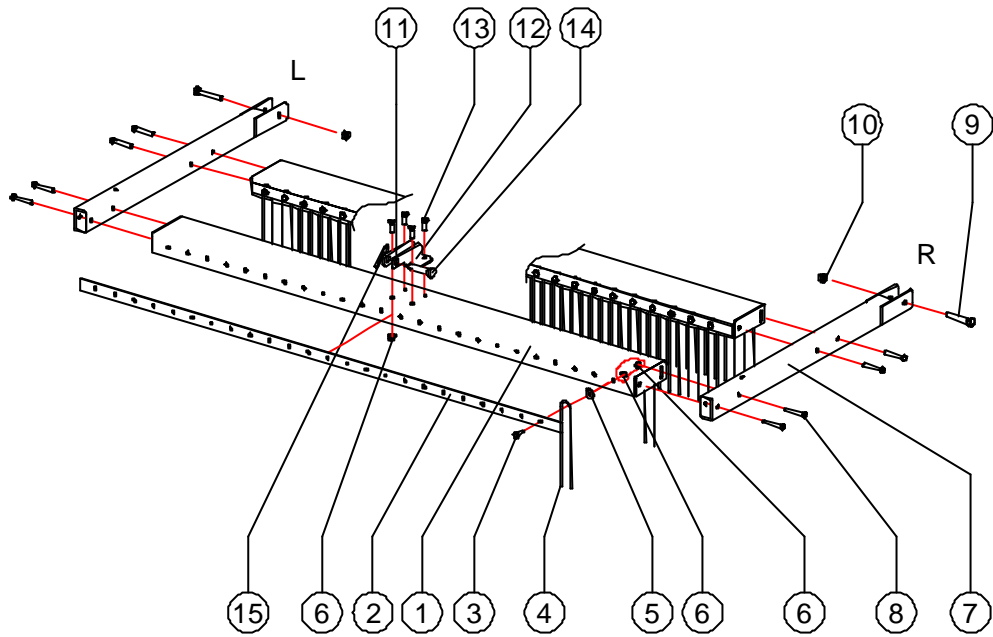
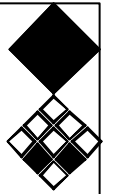
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	PART #	DESCRIPTION	REMARKS	QUA
1	494.150.130	Beam rake section		2
2	464.059.140	Strip		4
3	804.080.250	Bolt M8 x 25		96
4	361.103.250	Tine		96
5	864.080.031	Large washer M8		96
6	830.080.080	Self lock nut M8		108
7	462.408.400	Arm		2
8	802.080.550	Bolt M8 x 55		8
9	804.120.700	Bolt M12 x 70		2
10	830.120.120	Self lock nut M12		2
11	468.051.232	Bracket left		1
12	468.051.230	Bracket right		1
13	804.080.250	Bolt M8 x 25		4
14	521.160.510	Lock pin		1
15	523.030.750	R-clip		1
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PART #	DESCRIPTION	REMARKS	QUA
1	468.029.151	Front plate	1
2	468.029.147	Back plate	1
3	468.025.322	Side plate right	1
4	468.025.320	Side plate left	1
5	468.041.160	Bracket right	1
6	468.041.162	Bracket left	1
7	804.060.120	Bolt M6 x 12	22
8	830.060.060	Self lock nut M6	28
9	804.060.160	Bolt M6 x 16	6
10	462.408.800	Frame	2
11	802.080.550	Bolt M8 x 55	4
12	830.080.080	Self lock nut M8	8
13	802.120.900	Bolt M12 x 90	2
14	830.120.120	Self lock nut M12	2
15	547.130.300	Hose clamp	3
16	802.060.600	Bolt M6 x 60	3
17	541.174.500	Hydraulic hose G3/8" 4,5m	1
18	545.210.800	Quick connector male 1/2 "	1
19	534.422.500	Hydraulic cylinder. stroke 250mm	1
20	543.170.170	Nipple G3/8x3/8	1
21	874.170.020	Cupper washer 3/8"	1
22	537.380.360	Breather 3/8"	1
23	521.160.510	Lock pin	1
24	523.030.750	R-clip	1
25	466.060.702	Bracket	1
26	848.080.722	U-bolt	2
27	822.080.360	Eye nut	4
28	846.080.241	Dee shackle	4
29	864.064.300	Chain, 6 shackles	2
30	464.152.200	Distance strip	2
31	852.081.700	Threaded rod M8	2
32	226.080.080	Nut M8	2
33	864.080.030	Washer M8	4
34	874.210.020	Cupper washer 1/2	1
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Redexim-Charterhouse Rink 1010 Infill kit pag 02 code 0720

	PART #	DESCRIPTION	REMARKS	QUA
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6	830.080.080	Self lock nut M8		108
7	462.408.400	Arm		2
8	802.080.550	Bolt M8 x 55		8
9	804.120.700	Bolt M12 x 70		2
10	830.120.120	Self lock nut M12		2
11	468.051.232	Bracket left		1
12	468.051.230	Bracket right		1
13	804.080.250	Bolt M8 x 25		4
14	521.160.510	Lock pin		1
15	523.030.750	R-clip		1
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