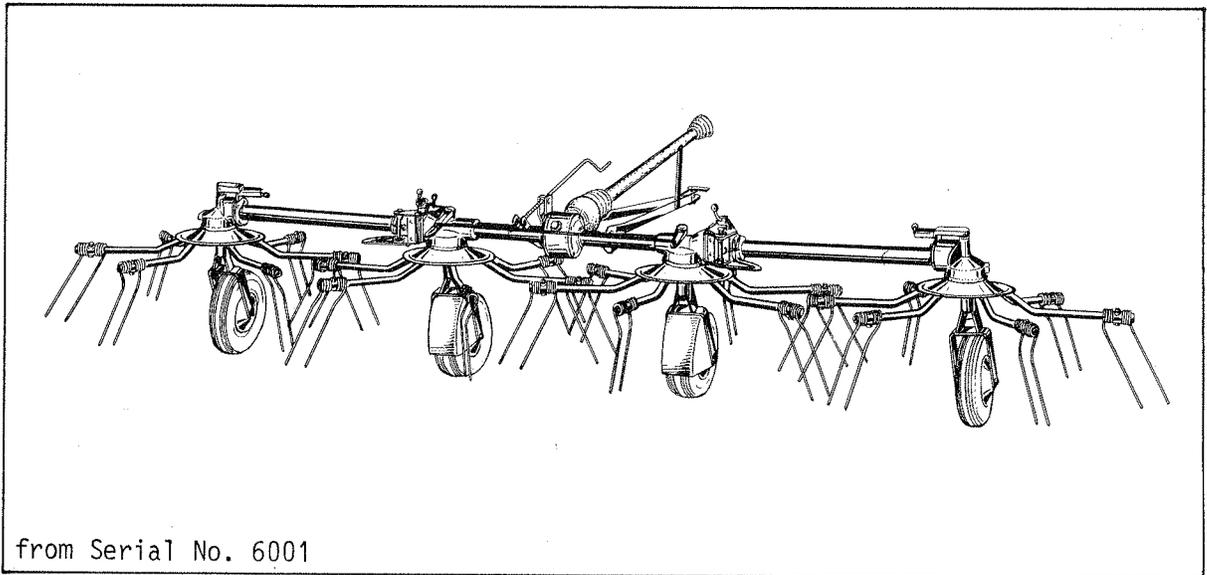


INSTRUCTIONS FOR ASSEMBLY AND OPERATION

SPARE PARTS LIST

ROTARY TEDDERS

HR 501/HR 501-D



1.1.1982

NIEMEYER

H. NIEMEYER SÖHNE GMBH & CO. KG

D-4446 Hörstel-Riesenbeck

Postfach 11 65 · Tel.: (05454) 880 · Telex: 94511

Supply Schedule

- 1 Main frame HR 501/501-D, cpl. with wheel forks
- 1 R/H frame link, cpl. with wheel fork
- 1 L/H frame link, cpl. with wheel fork
- 4 Support wheels
- 2 Hay guards No. 9510.010.731 for center wheels
- 2 Bundles à 6 tine arms c/w tines (red), R/H
- 2 Bundles à 6 tine arms c/w tines (yellow), L/H
- 1 PTO-Drive shaft

- 1 Tongue)
- 1 Tongue axle No. 9510.010.701)
- 1 Screw, cpl.) HR 501, trailed
- 1 12-inch Hitch Extension) (OPTIONAL)

or

- 1 3-PT. Linkage frame)
- 1 Connection frame) HR 501-D, 3-PT. mounted

1 Parcel accessories, containing:

- 4 Wheel guards No. 9510.001.131
- 4 Wheel guards No. 9510.001.132
- 1 PTO-guard No. 9930.610.700
- 1 Clamp No. 9930.610.570
- 2 Bearing bolts No. 9510.010.669
- 5 Ball heads No. 9930.570.375
- 1 Tin red paint
- 24 Hex. bolts M 12 x 60 DIN 931, 8.8 No. 9930.500.486
- 24 Washers 25/13 x 3 St. No. 9930.520.083
- 24 Brackets No. 9510.010.205
- 48 Hex. nuts M 12 DIN 985, 8 No. 9930.510.517

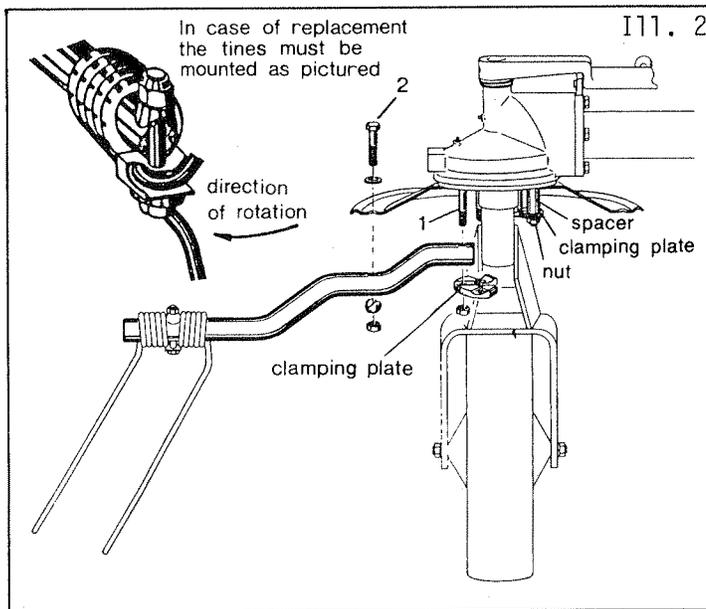
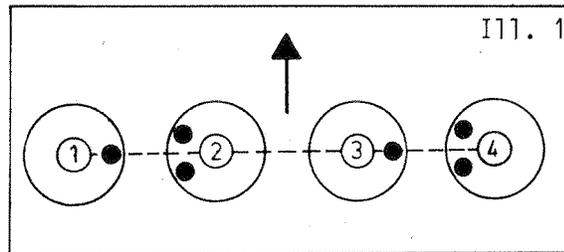
Assembly Instructions

On the HR 501-D (3-PT.-Model) connect the carrying frame to the main frame and secure the parking stand or on the HR 501 the tongue and depth screw.

THE FOLLOWING INSTRUCTIONS apply to both the HR 501 (pull type) and the HR 501-D (mounted):

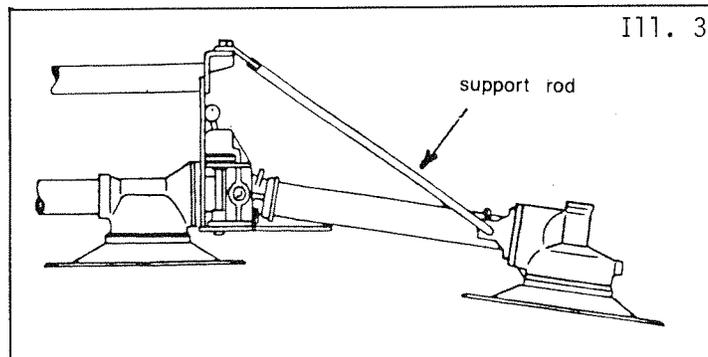
NOTE: While standing behind the HR 501 (four stars) and working from left to right, make sure the arms with yellow tines will be mounted on rotor stars 1 and 3 and the arms with red tines will be mounted on rotor stars 2 and 4 (I11. 4).

Making sure the rotor stars are timed properly is done very easily by (interlocking yellow dots on the rotors) turning the outer stars into their proper alignment as the machine is opened and locked into its widest position (see I11. 1).

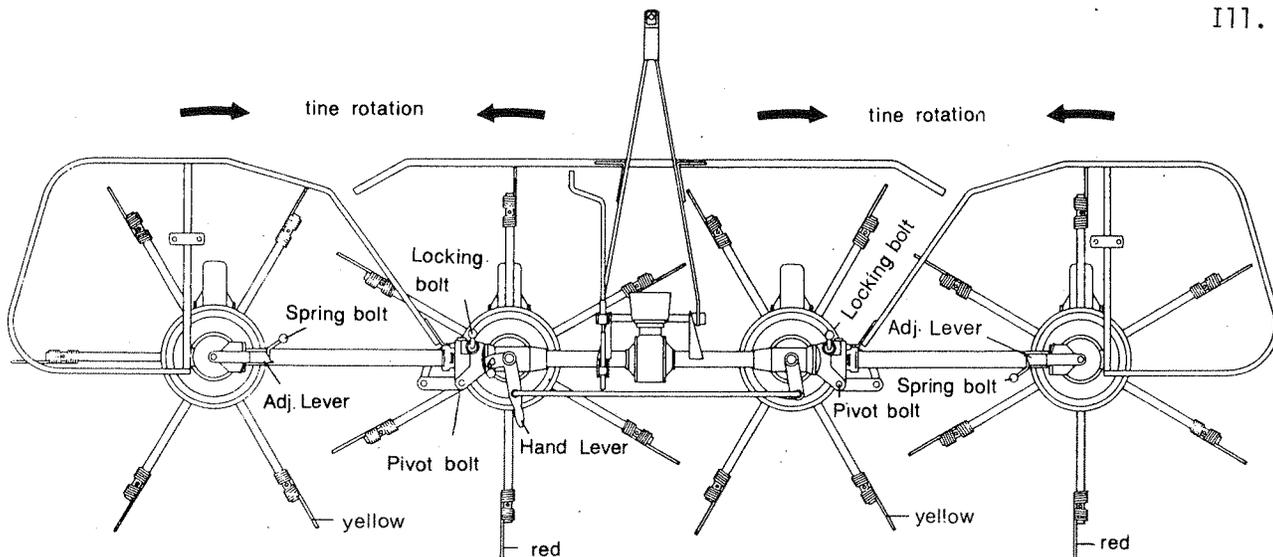


Once the arms have been put into position, replace the clamping plates and tighten the nuts in cross succession. All tine arms must be tightened to 62 ft/lb 8.6 daNm. The same torque setting is applied to the tine bolts.

Insert tine hex. bolts from the bottom and assemble all tines in such a way, that the tine ends are pointing outwards. It is important to retighten the tines after the first operation and again from time to time. Loose tine bolts can result in breakage.



HR 501-D - The mounted HR 501-D is raised for transport. When the outer links are swung to the rear for transport or back into working position the machine should be in a raised position in order to prevent bending of the support rods. When the links are swung with the machine resting on the ground the rod must be disconnected first (I11. 3).



PTO Drive Shaft

Before the first operation or when using a different tractor, the PTO-shaft length must be checked in respect of driving sharp turns or when raising the HR 501-D hydraulically.

Mount one half of the PTO-shaft on the tractor and the other one on the Tedder. Hold the two halves side by side and make sure there will be a minimum overlap of 16 inches, when the machine is in operation.

It is important to make sure the PTO-shaft is not too long, because it could then bottom out during operation and damage the Tedder's gear box.

If the PTO-shaft has to be shortened, take the same length off each end.

Do not take too much off the PTO-shaft because it might separate during operation.

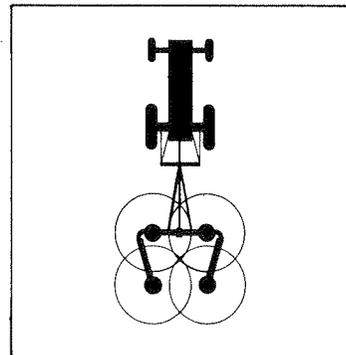
If the Overload Safety Device on the drive shaft reacts repeatedly when working a heavy crop, a lower speed should be selected.

A slipping reaction, lasting more than ten seconds, can lead to severe damage; stop and check the cause.

Transport and Mounting to the Tractor

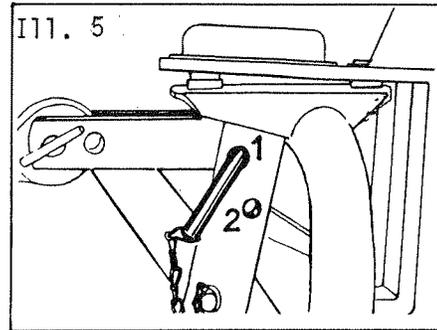
HR 501-D MOUNTED

Connect HR 501-D to 3-PT linkage of tractor. Raise hydraulics and secure for transport by inserting the pin into hole 1, so that the machine cannot swing out sideways (I11. 5). The outer links are swung to the rear and secured.



HR 501 TRAILED

Stabilize tractor hitch bar to prevent sideways swinging and hitch the Tedder to the tractor. Ground clearance of hitch bar about 14". Make sure the hydraulics do not lift up the hitch bar towards the PTO-shaft (risk of breakage). Using the depth screw, adjust the rotors into a level position.



Changing from Transport into Working Position

Undo the locking bolts (I11. 4) and swing the outer frame links into line with the central frame until the locking bolts are arrested again. Mind the correct positioning of the tine arms as shown in I11. 1 and I11. 4.

Now lift the outer rotors off the ground, swing the support wheels to the front and relock the adjustment lever (I11. 4). By means of the depth screw the HR 501 is then tilted so that the front tines touch ground. The HR 501-D is tilted to the front by adjustment of the top link.

On the HR 501-D the bolt which secures the linkage for transport is pulled out of hole 1 and inserted into hole 2 (I11. 5). The hydraulics are lowered until the latch of the linkage rests at its rear side. In this way the machine is free to trail during operation.

When setting the machine for transport proceed in reverse order. Make sure that all the locking bolts are securely in place.

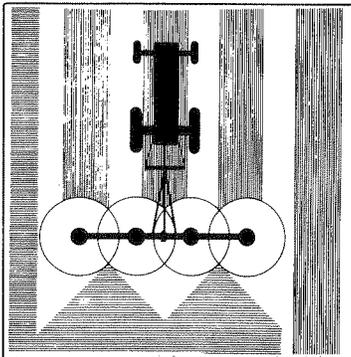
Operation

Soon after begin of tedding check the tines for correct depth and readjust depth screw or top link, if necessary.

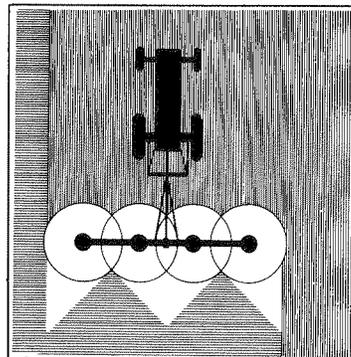
Choose a forward speed which makes sure that the crop is picked up cleanly and spread evenly. Keep forward speed low during the first operation "Spreading of mowed swath".

The PTO revs. should be adapted to the degree of moisture. For example: Increase forward speed and reduce RPM as the crop is getting drier.

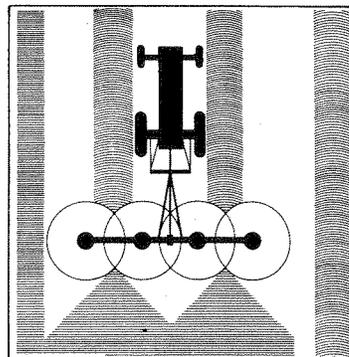
If the overload slip clutch reacts repeatedly in heavy crop a slower gear should be selected.



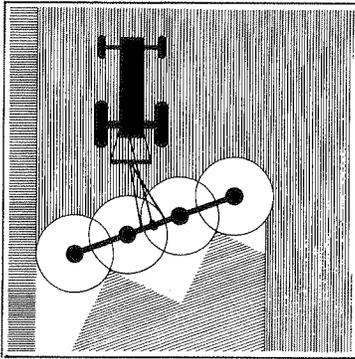
Tedding three mowed swaths



Crops are handled gently and efficiently



Tedding of two large windrows



Clearing of Side Strips

Unlock the adjustment levers of both outer wheels, swing machine into an angled position by means of the hand lever above the L/H inner rotor and lock the wheels again. On slopes, this position should be used with caution (shift of weight). Keeping the number of RPM low, with this position, is suggested.

Service and Maintenance

The center gearbox is filled with 1.5 pints of fluid grease, ESSO FIBRAX 280 or equivalent. The rotor gearboxes require greasing with grease gun prior to the first operation and every ten working hours thereafter. Turn rotors by hand when greasing.

During the season, all moving parts, joints, etc. should be greased daily, in particular the grease nipples at the swivel joints of the outer links and at the gearbox neck below the adj. lever. Also keep the claw couplings and ball rings of the rotor drive shaft as well as the rollers at the linkage pivot well greased.

The air pressure of the tyres must be checked (29 lbs.). All the nuts, especially those on the tines and tine arms, should be tightened again after the first field operation and checked regularly.

For the attention of the operator

Stay out of reach of the rotors (risk of accident!).

Turn off the PTO whenever adjustments are made.

Make sure that the mounted D-model is pulled into the central position when raised.

Take care that no persons are within reach of the swinging machine and that the machine will not hit any obstacles.

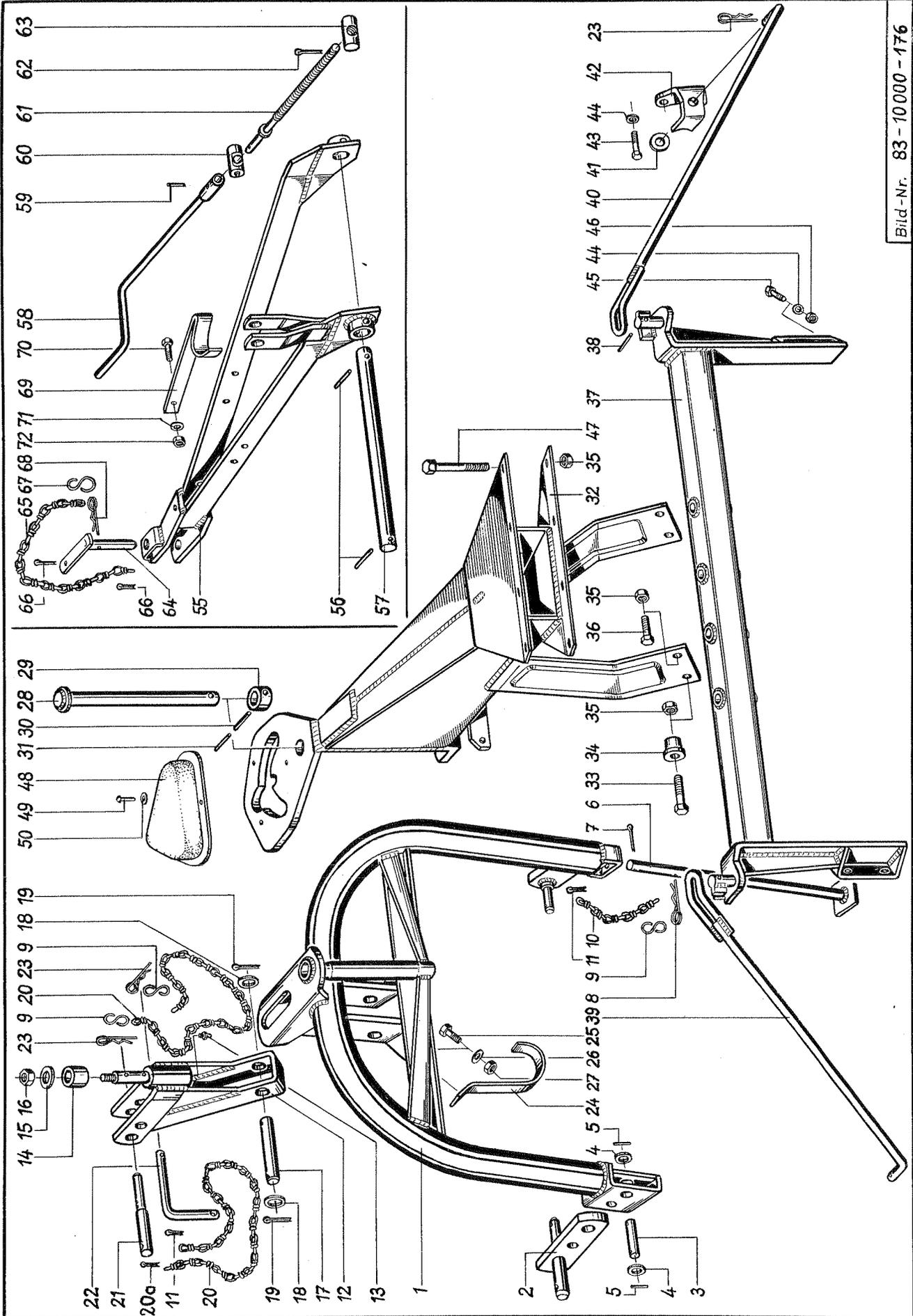


Bild-Nr. 83-10000-176

Ref. No.	Part No.	Description	83-10000-00156/E	Model No.
		<u>Rotary Tedder HR 501-D</u>		
1	9510.010.371	3-PT Linkage frame		
2	9510.013.057	Linkage pin		
3	9510.010.279	Linkage axle c/w washers and tension pins		
4	9930.520.144	Washer \emptyset 21/37 x 3 DIN 125		
5	9930.530.062	Tension pin 6 x 40 DIN 1481		
6	9510.010.566	Parking prop c/w split pin		
7	9930.530.350	Split pin 6 x 35 DIN 94		
8	9920.570.229	Spring clip \emptyset 6 mm		
9	9930.570.206	S-hook 4 x 28		
10	9920.570.001	Chain \emptyset 2,2 x 6 Parts		
11	9930.530.330	Split pin 4 x 32 DIN 94		
12	9510.010.372	Latch		
13	9930.570.289	Grease nipple H 2 - M 10 x 1		
14	9930.541.740	Bushing		
15	9930.520.105	Washer \emptyset 16,5/45 x 3		
16	9930.510.521	Hex. nut M 16 DIN 985 8		
--	9510.010.374	Latch cpl. (Ref. Nos. 12 - 16)		
17	9510.010.375	Latch axle		
18	9930.520.185	Washer \emptyset 26/40 x 1,5		
19	9930.530.351	Split pin 6 x 40 DIN 94		
20	9920.570.002	Chain \emptyset 2,2 x 21 Parts		
20a	9930.530.334	Split pin 4 x 50 DIN 94		
21	9410.011.732	Top link pin		
22	9510.010.376	Pin cpl.		
23	9920.570.226	Spring clip \emptyset 4 mm		
24	9510.010.494	PTO-support		
25	9930.500.787	Hex. bolt M 12 x 35 DIN 933 8.8		
26	9920.560.707	Spring washer \emptyset 28/12,2 x 1,5		
27	9930.510.306	Hex. nut M 12 DIN 936 8		
28	9510.013.062	Swivel axle		
29	9510.013.063	Collar c/w 1 pair tension pins		
30	9930.530.131	Tension pin 12 x 50 DIN 1481		
31	9930.530.081	Tension pin 7 x 50 DIN 1481		
32	9510.010.474	3-PT Carrying frame		
33	9930.500.511	Hex. bolt M 16 x 60 DIN 931 8.8		
34	9510.010.441	Clamping bush		
35	9930.510.521	Hex. nut M 16 DIN 985 8		
36	9930.500.818	Hex. bolt M 16 x 30 DIN 933 8.8		
37	9510.010.475	Frame tube		
38	9930.530.096	Tension pin 8 x 50 DIN 1481		
39	9510.010.477	Track stay L/H		
40	9510.010.476	Track stay R/H		
41	9930.520.146	Washer \emptyset 21/40 x 3		
42	9510.010.432	Clamp plate		
43	9930.500.481	Hex. bolt M 12 x 45 DIN 931 8.8		
44	9930.520.534	Spring lock washer 12 DIN 128		
45	9930.500.784	Hex. bolt M 12 x 30 DIN 933 8.8		
46	9930.510.517	Hex. nut M 12 DIN 985 8		
47	9930.500.535	Hex. bolt M 16 x 110 DIN 931 8.8		
48	9930.600.414	Protective lid		
49	9930.520.004	Washer \emptyset 3,7/11 x 0,8 DIN 9021		
50	9930.531.031	Nail, grooved 3 x 10 DIN 1476		
		<u>Rotary Tedder HR 501</u>		
55	9510.010.700	Tongue c/w tension pins		
56	9930.530.113	Tension pin 10 x 50 DIN 1481		
57	9510.010.701	Tongue axle		
58	9510.010.558	Screw handle c/w tension pin		
59	9930.530.076	Tension pin 7 x 30 DIN 1481		
60	9510.010.559	Adjusting collar c/w grease nipple		
61	9510.010.560	Adjusting screw c/w split pin		
62	9930.530.330	Split pin 4 x 30 DIN 94		
63	9510.002.504	Screw nut		
64	9510.010.214	Draw bar pin		
65	9920.570.004	Chain \emptyset 2,2 x 12 Parts		
66	9930.530.330	Split pin 4 x 30 DIN 94		
67	9930.570.206	S-hook 4 x 28		
68	9920.570.229	Spring clip \emptyset 6 mm		
69	9510.010.702	PTO-support		
70	9930.500.789	Hex. bolt M 12 x 40 DIN 933 8.8		
71	9920.560.707	Spring washer \emptyset 28/12,2 x 1,5		
72	9930.510.451	Hex. nut M 12 DIN 980 8		
55	9510.010.699	Tongue c/w tension pins (USA)		

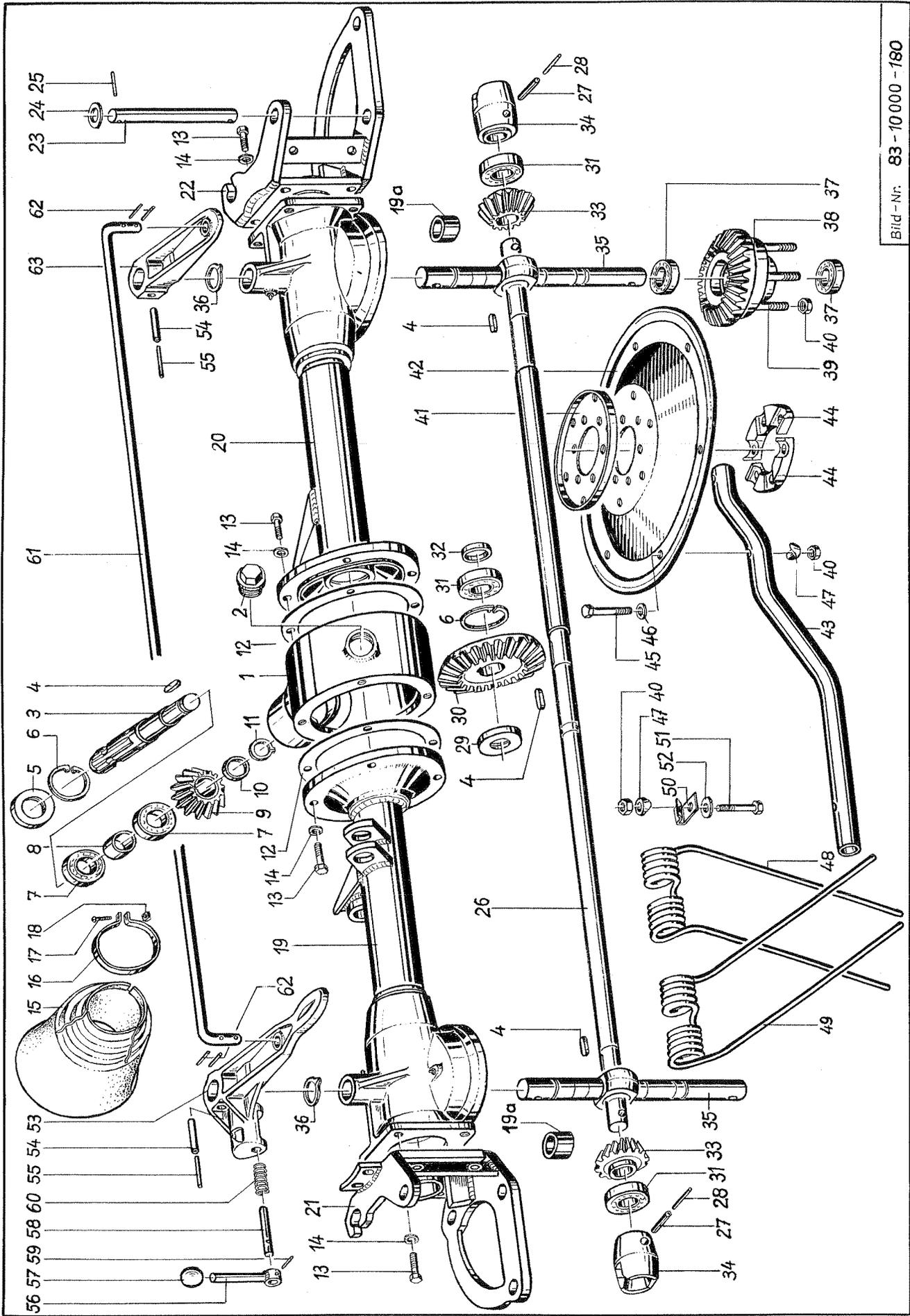
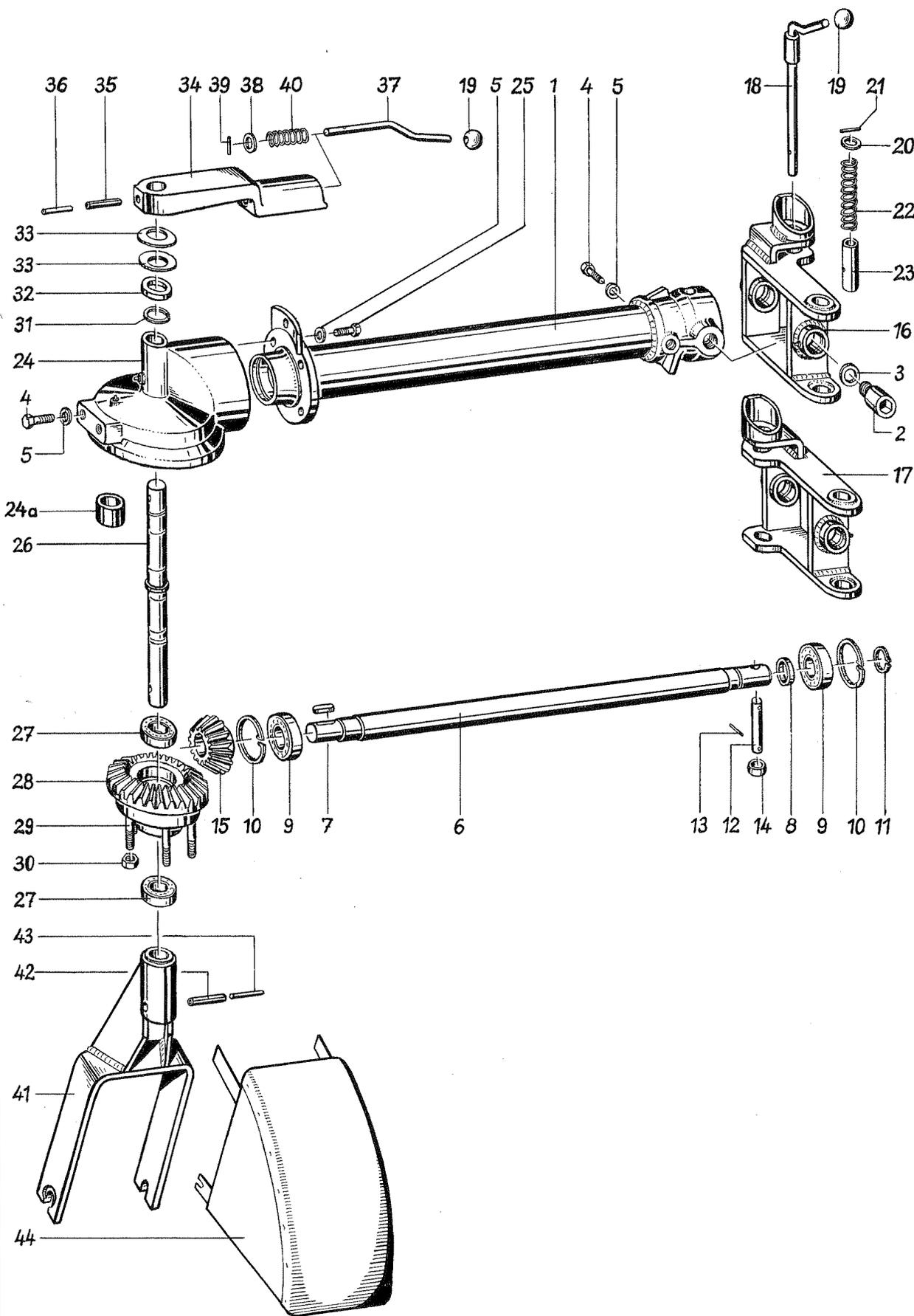
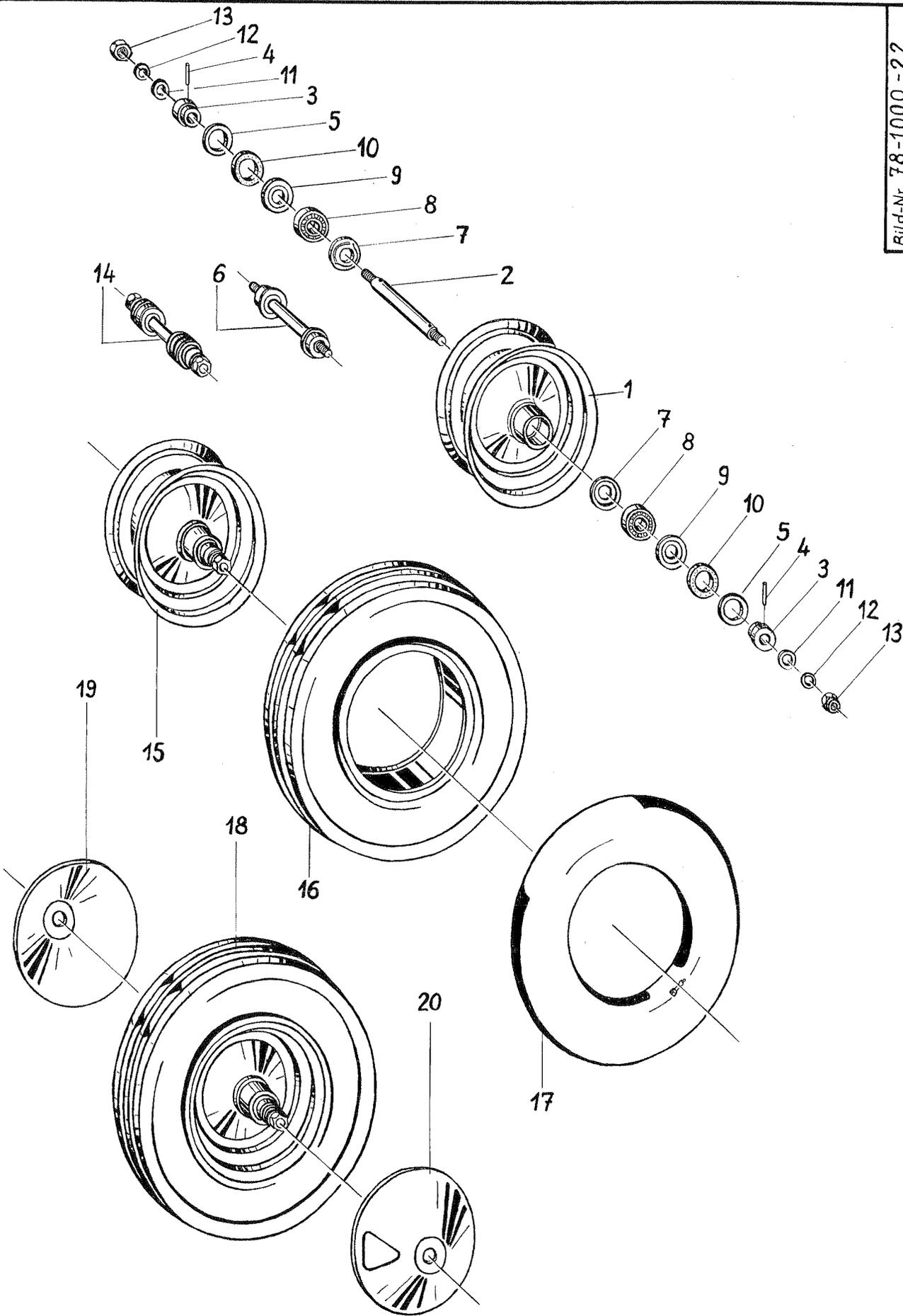


Bild-Nr. 83-10000-180

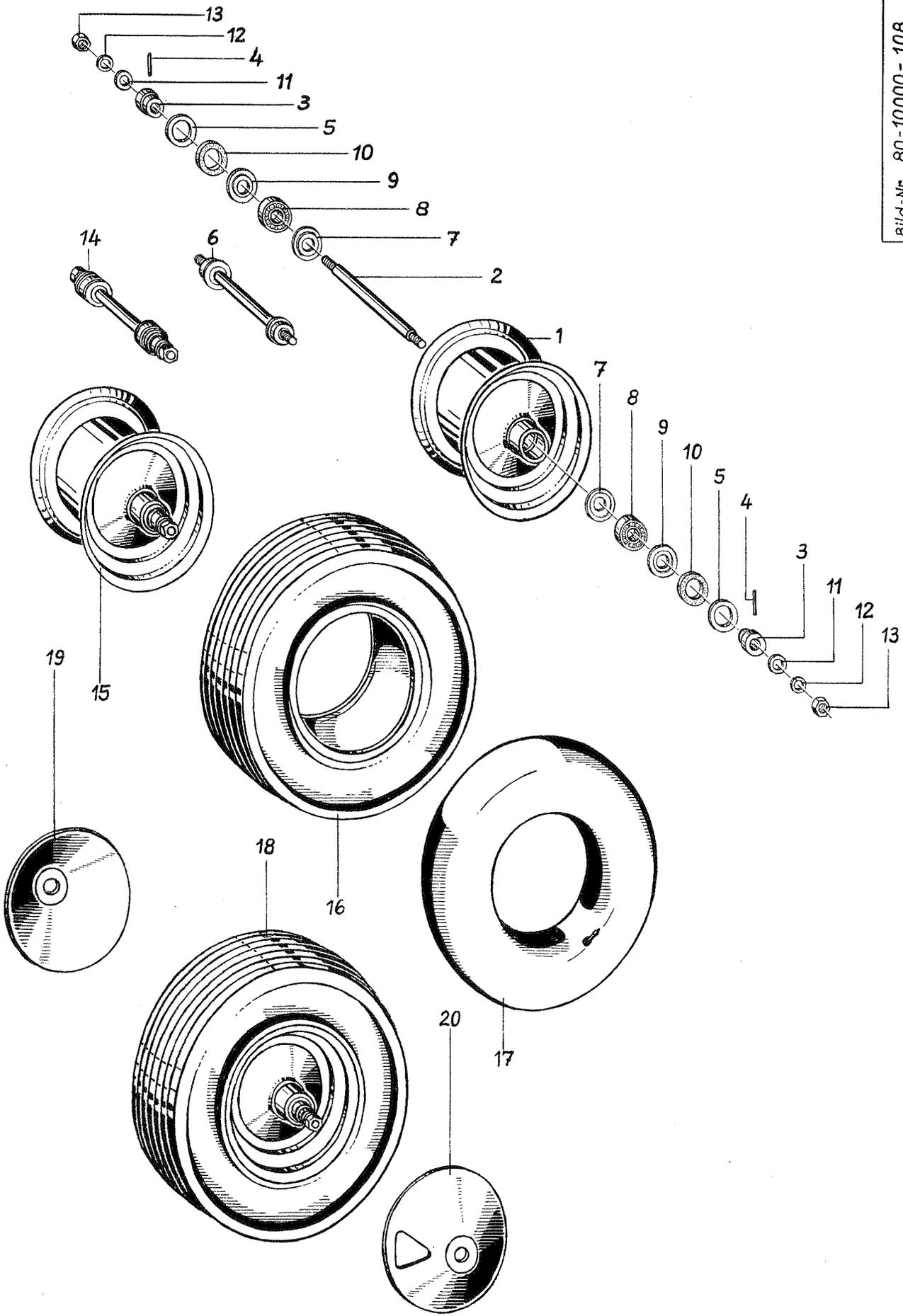
Ref. No.	Part No.	Description	83-10000-00157/E	Model No.
1	9510.010.380	Gearbox housing		KS 23
2	9930.503.018	Plug M 42 x 2 PA-6.6		
3	9510.010.519	Spline shaft		
4	9930.531.329	Key A 8 x 7 x 35 DIN 6885		
5	9930.550.060	Oil Seal BAD 35-62-10		
6	9930.531.640	Circlip J 62 x 2 DIN 472		
7	9930.540.152	Grooved ball bearing 6206		
8	9510.010.258	Spacer 24 mm long		
9	9510.010.656	Pinion, 15 T (inner- \emptyset = 28; nave = 37)		
10	9510.010.436	Spacer 5 mm long		
11	9930.531.518	Circlip A 28 x 1,5 DIN 471		
12	9910.551.210	Gasket		
13	9930.500.784	Hex. bolt M 12 x 30 DIN 933 8.8		
14	9930.520.534	Spring lock washer 12 DIN 128		
15	9930.610.700	PTO-guard (82.84.04)		
16	9930.610.570	Clamp (82.87.03)		
17	9930.503.126	Bolt A M 5 x 25 DIN 7985		
18	9930.510.602	Nut M 5 DIN 557		
19	9510.010.479	Flange pipe L/H c/w gearbox housing KH 101, grease nipple and bearing bush		
19a	9930.541.719	Bearing bush		
20	9510.010.480	Flange pipe R/H c/w gearbox housing KH 101, grease nipple and bearing bush		
--	9930.570.265	Grease nipple		
21	9510.010.449	Bracket joint L/H		
22	9510.010.448	Bracket joint R/H		
23	9510.010.669	Bolt c/w washers and tension pins		
24	9930.520.186	Washer \emptyset 26/40 x 2,5		
25	9930.530.063	Tension pin 6 x 40 DIN 1481		
26	9510.010.478	Main drive shaft c/w 2 pairs tension pins		
27	9930.530.115	Tension pin 10 x 60 DIN 1481		
28	9930.530.067	Tension pin 6 x 60 DIN 1481		
29	9930.550.042	Oil seal BA 30-62-10		
30	9510.010.655	Pinion, 30 T (inner- \emptyset = 30; nave = 40)		
31	9930.540.156	Grooved ball bearing 6206.2RS.C3		
32	9510.010.125	Spacer 5 mm long		
33	9510.010.744	Pinion, 15 T (inner- \emptyset = 30; nave = 37)		
34	9510.010.451	Coupling piece		
35	9510.010.452	Rotor shaft, inner		
36	9930.531.524	Circlip A 35 x 1,5 DIN 471		
37	9930.540.073	Grooved ball bearing 6006.2RS.C3		
38	9510.010.481	Pinion c/w 6 studs and nuts		
39	9930.503.192	Stud \emptyset 12 x 73		
40	9930.510.517	Hex. nut M 12 DIN 985 8		
41	9510.010.482	Cover		
42	9510.013.006	Tine arm plate		
43	9510.010.484	Tine arm		
44	9510.010.483	Adjuster segment		
45	9930.500.486	Hex. bolt M 12 x 60 DIN 931 8.8		
46	9930.520.083	Washer \emptyset 13/24 x 2,5 DIN 125		
47	9510.010.205	Bracket		
48	9920.600.011	Tine, L/H (10.501)		
49	9920.600.012	Tine, R/H (10.502)		
50	9510.010.168	Tine holder		
51	9930.500.490	Hex. bolt M 12 x 70 DIN 931 8.8		
52	9930.520.094	Washer \emptyset 14/35 x 4		
--	9510.010.299	Bolt assembly for tine cpl.		
53	9510.010.717	Lever c/w tension pins		
54	9930.530.133	Tension pin 12 x 60 DIN 1481		
55	9930.530.083	Tension pin 7 x 60 DIN 1481		
56	9510.010.718	Handle c/w ball head		
57	9930.570.375	Ball head		
58	9510.010.719	Lock pin c/w tension pin		
59	9930.530.040	Tension pin 5 x 24 DIN 1481		
60	9920.560.234	Spring		
61	9510.010.485	Track stay c/w tension pin		
62	9930.530.044	Tension pin 5 x 36 DIN 1481		
63	9510.010.720	Lever arm c/w tension pins		
				KH 105
				HR 13
				KH 35
				KH 36



Ref. No.	Part No.	Description	83-10000-00158/E	Model No.
1	9510.010.486	Frame tube		
2	9930.503.180	Bearing bolt		
3	9930.520.561	Spring lock washer 20 DIN 7980		
4	9930.500.783	Hex. bolt M 12 x 25 DIN 933 8.8		
5	9930.520.534	Spring lock washer 12 DIN 128		
6	9510.010.487	Rotor drive shaft		
7	9930.531.329	Key A 8 x 7 x 35 DIN 6885		
8	9510.010.125	Spacer 5 mm long		
9	9930.540.156	Grooved ball bearing 6206.2RS.C3		
10	9930.531.640	Circlip J 62 x 2 DIN 472		
11	9930.531.520	Circlip A 30 x 1,5 DIN 471		
12	9510.010.463	Coupling bolt		
13	9930.530.029	Tension pin 4 x 20 DIN 1481		
14	9510.010.464	Ball ring		
--	9510.010.465	Coupling bolt cpl.		
15	9510.010.656	Pinion, 15 T (inner- \emptyset = 28, nave = 37)		
16	9510.010.667	Cardan ring L/H c/w grease nipple		KH 24
17	9510.010.668	Cardan ring R/H c/w grease nipple		KH 25
--	9930.570.265	Grease nipple		
18	9510.010.670	Spring bolt c/w washer, tension pin and ball head		
19	9930.570.375	Ball head \emptyset 32		
20	9930.520.077	Washer \emptyset 13/29 x 3		
21	9930.530.040	Tension pin 5 x 24 DIN 1481		
22	9920.560.248	Spring		
23	9510.010.671	Spring bush		
24	9510.010.466	Gearbox housing outer c/w 2 grease nipples and bearing bush		KH 102
--	9930.570.265	Grease nipple		
24a	9930.541.717	Bearing bush		
25	9930.500.784	Hex. bolt M 12 x 30 DIN 933 8.8		
26	9510.010.467	Spider drive shaft, outer		
27	9930.540.073	Grooved ball bearing 6006.2RS.C3		
28	9510.010.481	Pinion c/w 6 studs and nuts		
29	9930.503.192	Stud \emptyset 12 x 73		
30	9930.510.517	Hex. nut M 12 DIN 985 8		
31	9930.531.521	Circlip A 30 x 1,5 V		
32	9510.010.495	Washer		
33	9920.560.716	Lock washer 63 x 31 x 1,8		
34	9510.010.679	Lever c/w 2 tension pins		KH 27
35	9930.530.133	Tension pin 12 x 60 DIN 1481		
36	9930.530.083	Tension pin 7 x 60 DIN 1481		
37	9510.010.680	Spring bolt c/w washer, tension pin, ball head		
38	9930.520.075	Washer \emptyset 13/25 x 3 DIN 1441		
39	9930.530.022	Tension pin 3,5 x 24 DIN 1481		
40	9920.560.235	Spring		
		<u>for Support Wheel Standard 3,5 x 8 AM T7</u>		
41	9510.010.488	Wheel fork c/w tension pins		
42	9930.530.131	Tension pin 12 x 50 DIN 1481		
43	9930.530.081	Tension pin 7 x 50 DIN 1481		
44	9510.010.496	Hay guard		
		<u>for Support Wheel Balloon 16 x 6,5 x 8</u>		
41	9510.010.489	Wheel fork c/w tension pins		
42	9930.530.131	Tension pin 12 x 50 DIN 1481		
43	9930.530.081	Tension pin 7 x 50 DIN 1481		
44	9510.010.424	Hay guard		



Ref. No.	Part No.	Description	78-1000-007/E Model No.
1	9510.002.121	Wheel rim	
2	9510.002.122	Wheel axle	
3	9510.002.123	Ring	
4	9930.530.044	Tension pin 5 x 36 DIN 1481	
5	9930.520.228	Washer	
6	9510.002.446	Wheel axle cpl. (Ref. Nos. 2 - 5)	
7	9920.570.365	Grease cap	
8	9930.540.142	Grooved ball bearing 6204	
9	9930.520.134	Washer	
10	9930.550.913	Felt ring	
11	9930.520.112	Washer \emptyset 30/17 x 3 DIN 125	
12	9930.520.536	Spring lock washer A 16 DIN 128	
13	9930.510.521	Hex. nut M 16 DIN 985 8	
14	9510.002.457	Wheel axle cpl. (Ref. Nos. 2 - 13)	
15	9510.001.119	Wheel rim c/w axle (Ref. Nos. 1 - 14)	
16	9930.591.118	Tyre 3,5 x 8 AM T 7	
17	9930.591.215	Tube 3,5 x 8	
18	9510.002.117	cpl. wheel assembly (Ref. Nos. 15, 16, 17)	
19	9510.001.131	Hay guard less cavity	
20	9510.001.132	Hay guard with cavity	



Ref. No.	Part No.	Description	80-10000-0094/E	Model No.
		<u>Super-Balloon-Tyre 16 x 6,5 x 8</u>		
1	9510.010.419	Wheel rim		
2	9510.010.425	Wheel axle		
3	9510.002.123	Ring		
4	9930.530.044	Tension pin 5 x 36 DIN 1481		
5	9930.520.228	Washer		
6	9510.010.420	Wheel axle cpl. (Ref. Nos. 2 - 5)		
7	9920.570.365	Grease cap		
8	9930.540.142	Grooved ball bearing 6204		
9	9930.520.134	Washer		
10	9930.550.913	Felt ring		
11	9930.520.112	Washer Ø 30/17 x 3 DIN 125		
12	9930.520.536	Spring lock washer A 16 DIN 128		
13	9930.510.521	Hex. nut M 16 DIN 985 8		
14	9510.010.421	Wheel axle cpl. (Ref. Nos. 2 - 13)		
15	9510.010.422	Wheel rim c/w axle (Ref. Nos. 1 - 14)		
16	9930.591.120	Tyre 16 x 6,5 - 8 A 87.4 PR		
17	9930.591.218	Tube 16 x 6,5 - 8 AS GV.38/11,5		
18	9510.010.423	Super balloon wheel cpl. (Ref. Nos. 15, 16, 17)		
19	9510.001.131	Hay guard less cavity		
20	9510.001.132	Hay guard with cavity		

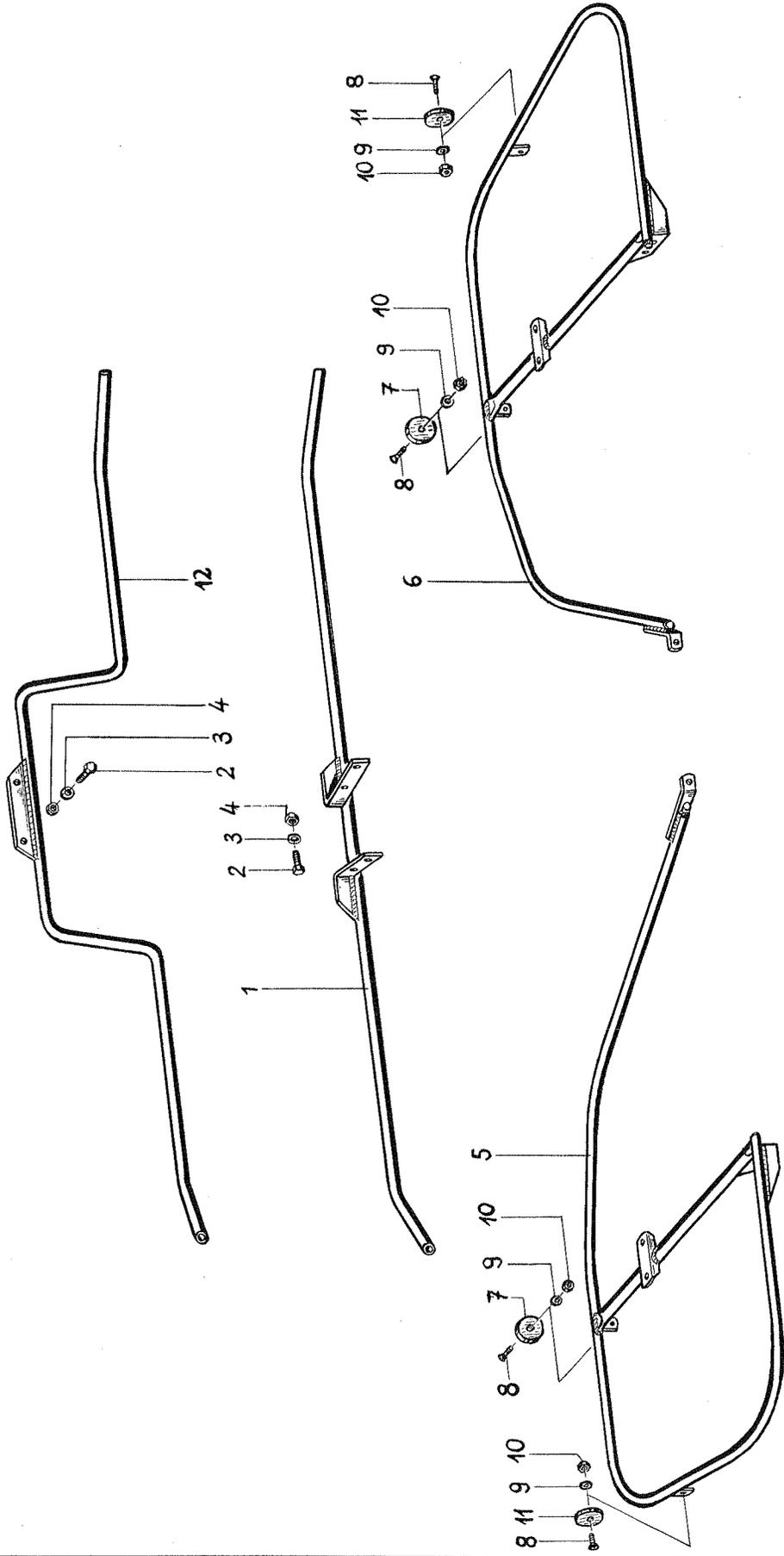
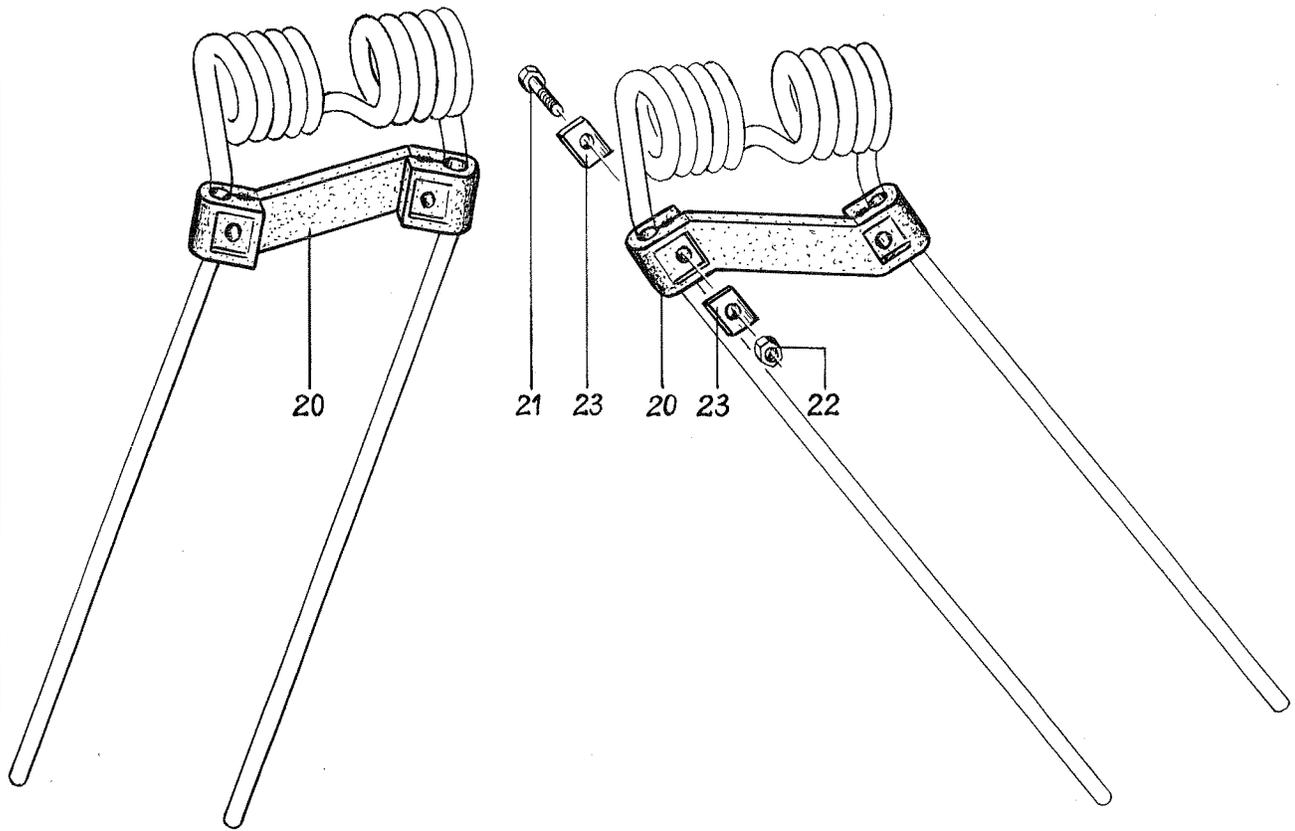
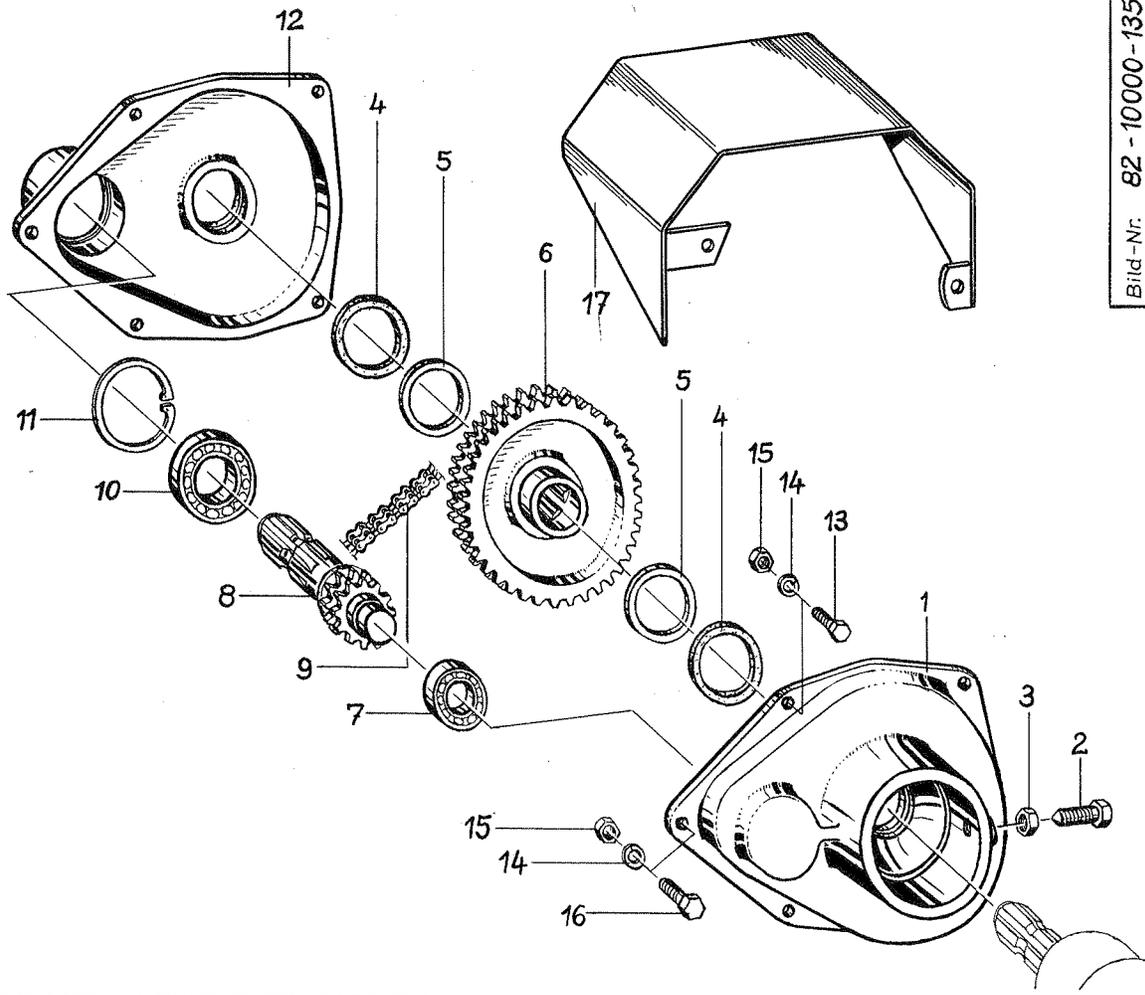
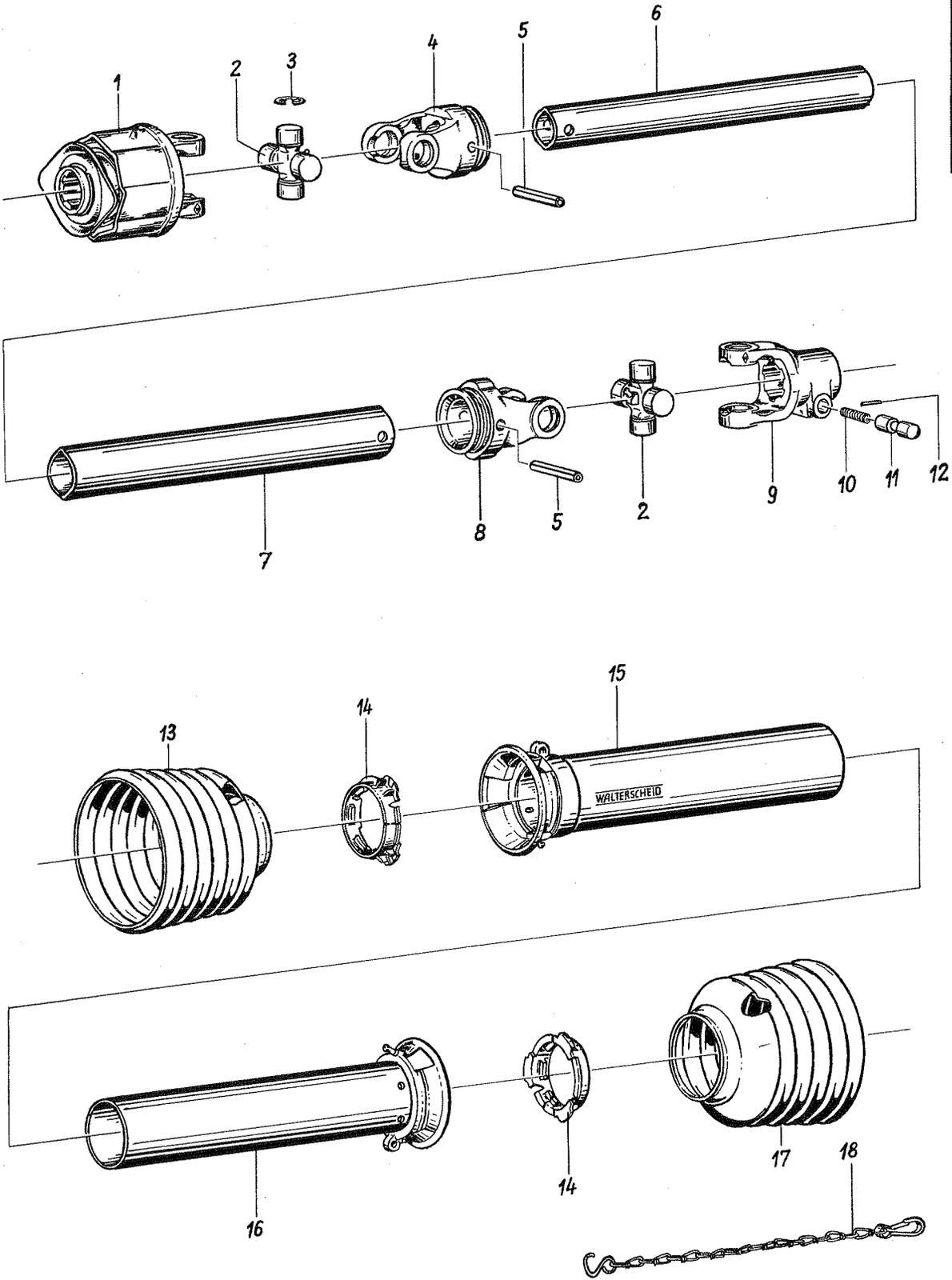


Bild-Nr. 83-10000-181

Ref. No.	Part No.	Descripton	83-10000-00159/E	Model No.
		<u>Safety frame HR 501 (Optional)</u>		
1	9510.010.470	Safety frame, centre		
2	9930.500.785	Hex. bolt M 12 x 35 DIN 933 8.8		
3	9930.520.534	Spring lock washer 12 DIN 128		
4	9930.510.517	Hex. nut M 12 DIN 985 8		
5	9510.010.491	Safety frame, outer L/H		
6	9510.010.492	Safety frame, outer R/H		
7	9930.570.452	Reflector, red		
8	9930.502.534	Bolt M 5 x 16 DIN 963 5.8		
9	9930.520.014	Washer Ø 5,5/10 x 1 DIN 126		
10	9930.510.504	Hex. nut M 5 DIN 985 8		
11	9930.570.451	Reflector, yellow		
		<u>Safety frame HR 501-D (Optional)</u>		
2	9930.500.785	Hex. bolt M 12 x 35 DIN 933 8.8		
3	9930.520.534	Spring lock washer 12 DIN 128		
4	9930.510.517	Hex. nut M 12 DIN 985 8		
5	9510.010.491	Safety frame, outer L/H		
6	9510.010.492	Safety frame, outer R/H		
7	9930.570.452	Reflector, red		
8	9930.502.534	Bolt M 5 x 16 DIN 963 5.8		
9	9930.520.014	Washer Ø 5,5/10 x 1 DIN 126		
10	9930.510.504	Hex. nut M 5 DIN 985 8		
11	9930.570.451	Reflector, yellow		
12	9510.010.493	Safety frame, centre		
		<u>Safety frame HR 501 (U S A)</u>		
1	9510.010.698	Safety frame, centre (for HR 501 with elongated tongue only)		



Ref. No.	Part No.	Description	82-10000-00119/E	Model No.
		<u>Reduction gear</u>		
1	9510.010.750	Gearbox half		10.750
2	9930.500.791	Hex. bolt M 12 x 40 DIN 933 8.8 c/w lead-in end		
3	9930.510.228	Hex. nut M 12 DIN 934 8		
4	9930.550.903	Felt ring F 10		
5	9930.520.470	Adaptor washer S 45 x 55 DIN 988		
6	9510.010.752	Sprocket		10.752
7	9930.540.067	Grooved ball bearing 6005.2RS		
8	9510.010.753	Spline shaft		
9	9930.593.003	Double roller chain RZ 222 c/w connecting link		
-	9930.593.004	Connecting link		
10	9930.540.076	Grooved ball bearing 6007.2RS		
11	9930.531.640	Circlip J 62 x 2 DIN 472		
12	9510.010.751	Gearbox half		10.751
13	9930.500.744	Hex. bolt M 8 x 25 DIN 933 8.8		
14	9930.520.532	Spring lock washer 8 DIN 128		
15	9930.510.222	Hex. nut M 8 DIN 934 8		
16	9930.500.745	Hex. bolt M 8 x 30 DIN 933 8.8		
--	9510.010.754	Reduction gear cpl.		
17	9510.010.755	Guard		
		<u>Tine safety bracket</u>		
20	9930.600.416	Tine safety bracket		
21	9930.500.431	Hex. bolt M 6 x 30 DIN 931 8.8		
22	9930.510.505	Hex. nut M 6 DIN 985 8		
23	9930.010.385	Plate		
--	9930.010.370	Tine safety bracket cpl.		



Ref. No.	Part No.	Description	80-0001-0055/E	Walterscheid Part No.
		PTO-shaft for HR 501 <u>W 2200-SC14-K33-005/011 (8878)</u>		
1	9930.610.102	Ratchet clutch K 33 c/w KNP 1 3/8" DIN 9611 cpl. M = 680 Nm		55.210.03
2	9930.610.052	Unit package cpl.		22.00.00
3	9930.531.853	Circlip 24 x 1,5 DIN 984		62.23.00
4	9930.610.018	Tube yoke		20.11.00
5	9930.530.116	Tension pin 10 x 65 DIN 1481		61.05.04
6	9930.610.224	Profile 005, length: 1200 mm		75.10.16
7	9930.610.223	Profile 011, length: 1195 mm		75.15.16
8	9930.610.025	Tube yoke		20.12.00
9	9930.610.003	Quick release yoke cpl.		20.10.00
10	9920.560.201	Spring		66.01.00
11	9930.610.040	Quick release pin		65.01.00
12	9930.530.029	Tension pin 4 x 20 DIN 1481		61.02.00
13	9930.610.709	Protective cone		84.03.06
14	9930.610.681	Sliding ring		82.83.06
15	9930.610.643	PTO-guard tube, outer; tube length: 1140 mm		80.37.03
16	9930.610.633	PTO-guard tube, inner; tube length: 1140 mm		80.36.03
17	9930.610.708	Protective cone		84.02.06
18	9930.610.566	Stop chain		82.36.03
		PTO-shaft for HR 501-D <u>W 2200-SC14-K33-005/011 (8763)</u>		
1	9930.610.102	Ratchet clutch K 33 c/w KNP 1 3/8" DIN 9611 cpl. M = 680 Nm		55.210.03
2	9930.610.052	Unit package cpl.		22.00.00
3	9930.531.853	Circlip 24 x 1,5 DIN 984		62.23.00
4	9930.610.018	Tube yoke		20.11.00
5	9930.530.116	Tension pin 10 x 65 DIN 1481		61.05.04
6	9930.610.220	Profile 005, length: 860 mm		75.10.16
7	9930.610.231	Profile 011, length: 860 mm		75.15.16
8	9930.610.025	Tube yoke		20.12.00
9	9930.610.003	Quick release yoke cpl.		20.10.00
10	9920.560.201	Spring		66.01.00
11	9930.610.040	Quick release pin		65.01.00
12	9930.530.029	Tension pin 4 x 20 DIN 1481		61.02.00
13	9930.610.709	Protective cone		84.03.06
14	9930.610.681	Sliding ring		82.83.06
15	9930.610.641	PTO-guard tube, outer; tube length: 805 mm		80.37.03
16	9930.610.631	PTO-guard tube, inner, tube length: 800 mm		80.36.03
17	9930.610.708	Protective cone		84.02.06
18	9930.610.566	Stop chain		82.36.03

Part Number Index by Pages

Part No.	Pages	Part No.	Pages	Part No.	Pages	Part No.	Pages
9510.001.119	13	9510.010.489	11	9930.503.180	11	9930.540.076	19
9510.001.131	13,15	9510.010.491	17	9930.503.192	9,11	9930.540.142	13,15
9510.001.132	13,15	9510.010.492	17	9930.510.222	19	9930.540.152	9
9510.002.117	13	9510.010.493	17	9930.510.228	19	9930.540.156	9,11
9510.002.121	13	9510.010.494	7	9930.510.306	7	9930.541.717	11
9510.002.122	13	9510.010.495	11	9930.510.451	7	9930.541.719	9
9510.002.123	13,15	9510.010.496	11	9930.510.504	17	9930.541.740	7
9510.002.446	13	9510.010.519	9	9930.510.505	19	9930.550.042	9
9510.002.457	13	9510.010.558	7	9930.510.517	7,9,11,17	9930.550.060	9
9510.002.504	7	9510.010.559	7	9930.510.521	7,13,15	9930.550.903	19
9510.010.125	9,11	9510.010.560	7	9930.510.602	9	9930.550.913	13,15
9510.010.168	9	9510.010.566	7	9930.520.004	7	9910.551.210	9
9510.010.205	9	9510.010.655	9	9930.520.014	17	9920.560.201	21
9510.010.214	7	9510.010.656	9,11	9930.520.075	11	9920.560.234	9
9510.010.258	9	9510.010.667	11	9930.520.077	11	9920.560.235	11
9510.010.279	7	9510.010.668	11	9930.520.083	9	9920.560.248	11
9510.010.299	9	9510.010.669	9	9930.520.094	9	9920.560.707	7
9930.010.370	19	9510.010.670	11	9930.520.105	7	9920.560.716	11
9510.010.371	7	9510.010.671	11	9930.520.112	13,15	9920.570.001	7
9510.010.372	7	9510.010.679	11	9930.520.134	13,15	9920.570.002	7
9510.010.374	7	9510.010.680	11	9930.520.144	7	9920.570.004	7
9510.010.375	7	9510.010.698	17	9930.520.146	7	9930.570.206	7
9510.010.376	7	9510.010.699	7	9930.520.185	7	9920.570.226	7
9510.010.380	9	9510.010.700	7	9930.520.186	9	9920.570.229	7
9510.010.385	19	9510.010.701	7	9930.520.228	13,15	9930.570.265	9,11
9510.010.419	15	9510.010.702	7	9930.520.470	19	9930.570.289	7
9510.010.420	15	9510.010.717	9	9930.520.532	19	9920.570.365	13,15
9510.010.421	15	9510.010.718	9	9930.520.534	7,9,11,17	9930.570.375	9,11
9510.010.422	15	9510.010.719	9	9930.520.536	13,15	9930.570.451	17
9510.010.423	15	9510.010.720	9	9930.520.561	11	9930.570.452	17
9510.010.424	11	9510.010.744	9	9930.530.022	11	9930.591.118	13
9510.010.425	15	9510.010.750	19	9930.530.029	11,21	9930.591.120	15
9510.010.432	7	9510.010.751	19	9930.530.040	9,11	9930.591.215	13
9510.010.436	9	9510.010.752	19	9930.530.044	9,13,15	9930.591.218	15
9510.010.441	7	9510.010.753	19	9930.530.062	7	9930.593.003	19
9510.010.448	9	9510.010.754	19	9930.530.063	9	9930.593.004	19
9510.010.449	9	9510.010.755	19	9930.530.067	9	9920.600.011	9
9510.010.451	9	9410.011.732	7	9930.530.076	7	9920.600.012	9
9510.010.452	9	9510.013.006	9	9930.530.081	7,11	9930.600.414	7
9510.010.463	11	9510.013.057	7	9930.530.083	9,11	9930.600.416	19
9510.010.464	11	9510.013.062	7	9930.530.096	7	9930.610.003	21
9510.100.465	11	9510.013.063	7	9930.530.113	7	9930.610.018	21
9510.010.466	11	9930.500.431	19	9930.530.115	9	9930.610.025	21
9510.010.467	11	9930.500.481	7	9930.530.116	21	9930.610.040	21
9510.010.470	17	9930.500.486	9	9930.530.131	7,11	9930.610.052	21
9510.010.474	7	9930.500.490	9	9930.530.133	9,11	9930.610.102	21
9510.010.475	7	9930.500.511	7	9930.530.330	7	9930.610.220	21
9510.010.476	7	9930.500.535	7	9930.530.334	7	9930.610.223	21
9510.010.477	7	9930.500.744	19	9930.530.350	7	9930.610.224	21
9510.010.478	9	9930.500.745	19	9930.530.351	7	9930.610.231	21
9510.010.479	9	9930.500.783	11	9930.531.031	7	9930.610.566	21
9510.010.480	9	9930.500.784	7,9,11	9930.531.329	9,11	9930.610.570	9
9510.010.481	9,11	9930.500.785	17	9930.531.518	9	9930.610.631	21
9510.010.482	9	9930.500.787	7	9930.531.520	11	9930.610.633	21
9510.010.483	9	9930.500.789	7	9930.531.521	11	9930.610.641	21
9510.010.484	9	9930.500.791	19	9930.531.524	9	9930.610.643	21
9510.010.485	9	9930.500.818	7	9930.531.640	9,11,19	9930.610.681	21
9510.010.486	11	9930.502.534	17	9930.531.853	21	9930.610.700	9
9510.010.487	11	9930.503.018	9	9930.540.067	19	9930.610.708	21
9510.010.488	11	9930.503.126	9	9930.540.073	9,11	9930.610.709	21

Model Number Index by Pages

Model No.	Pages	Model No.	Pages	Model No.	Pages	Model No.	Pages
HR 13	9	KH 27	11	KH 102	11	10.750	19
KH 24	11	KH 35	9	KH 105	9	10.751	19
KH 25	11	KH 36	9	KS 23	9	10.752	19