

Continuous vacuum filling machine ROBBY - 2

Spare parts list

**valid from machine no. 135.0003
July 1996**

When ordering spare parts please always give the machine number for which the spare part is required. Also give the order-no., the quantity and the designation of the required spare part.

Order example:

Machine no.		135.xxxx
1 piece	Taper	135.380.040
2 piece	Grooved ball bearing 6003-2RS	063.060.035

The machine number can be found on the type plate below at the socket cover on the left side of the machine and above the socket cover imprinted on the machine support.



**MASCHINEN- UND
ANLAGENBAU GMBH**
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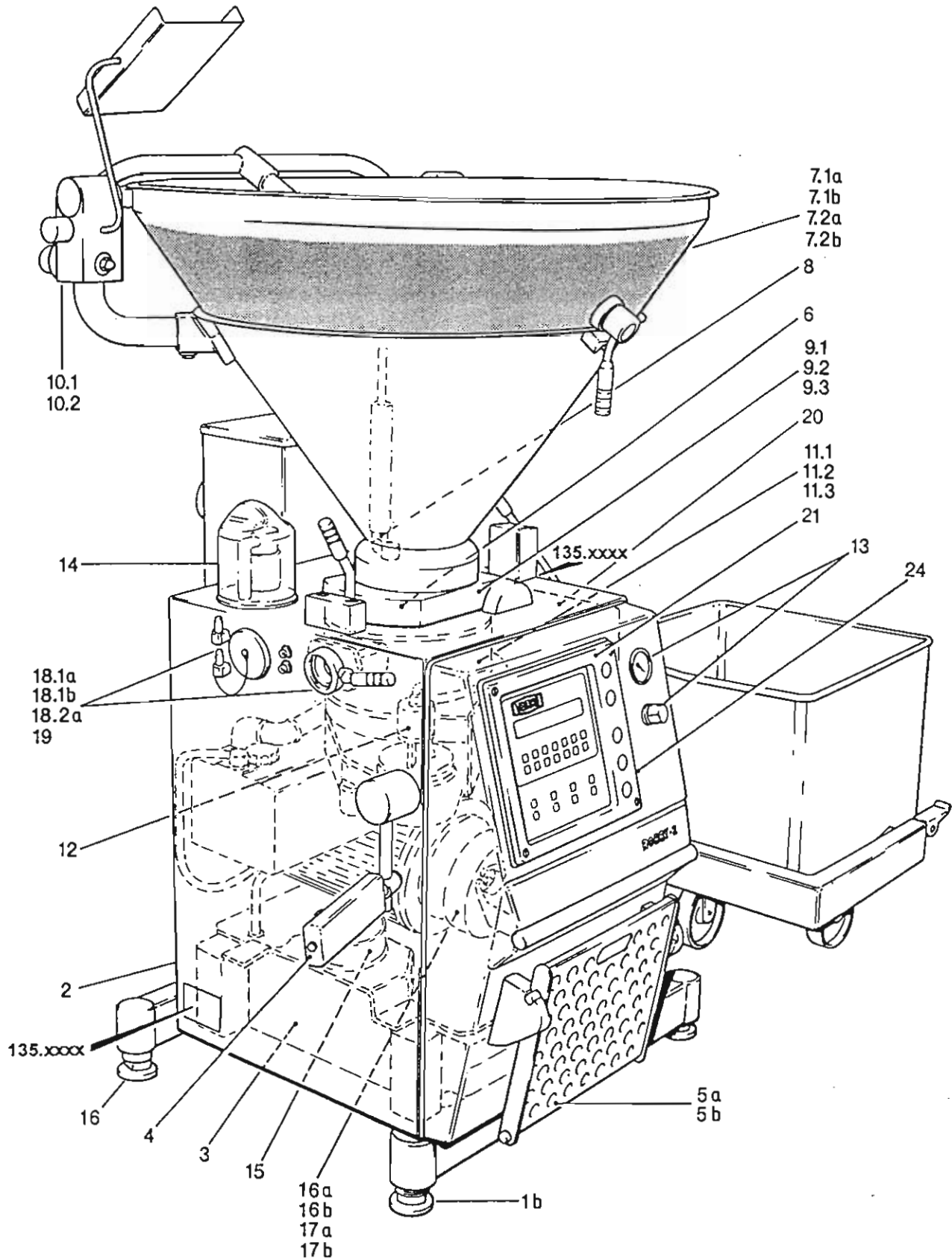


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9.1	134.340.001	Hinged housing cpl.	135.0003	135.0153
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10.1	135.380.000	Hopper hinge without safety switch cpl., left hand side	135.0003	135.0171
10.2	135.360.001	Hopper hinge without safety switch cpl., right hand side	135.0172	
10.2	135.380.001	Hopper hinge without safety switch cpl., left hand side	135.0172	
11.1	135.400.001	Gear cpl.	135.0003	135.0171
11.2	135.400.002	Gear cpl.	135.0172	app. 135.0246
11.3	135.400.003	Gear cpl.	approx. 135.0247	
12	134.430.000	Impulse transmitter cpl.	135.0003	app. 135.0246
12	134.430.001	Impulse transmitter cpl. (f. helical gearing)	approx. 135.0247	
13	135.500.000	Vacuum system cpl.		

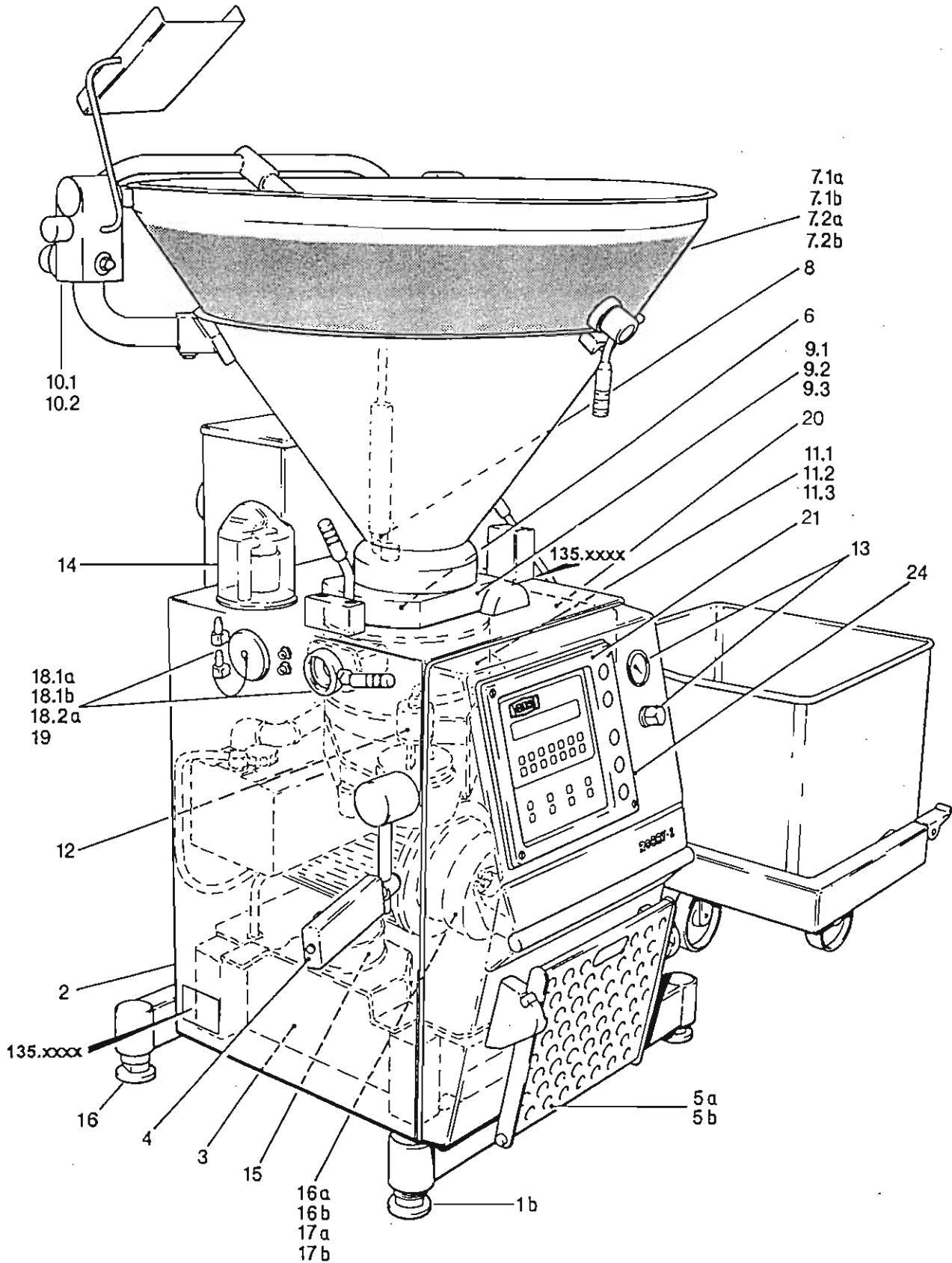
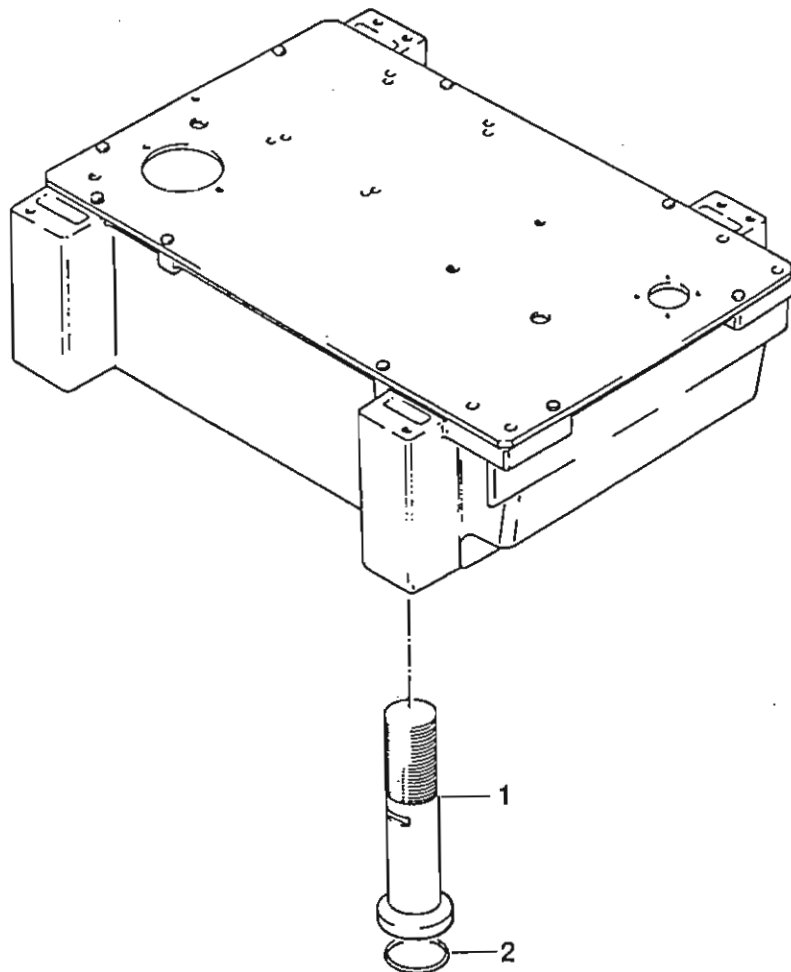


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135.090.001

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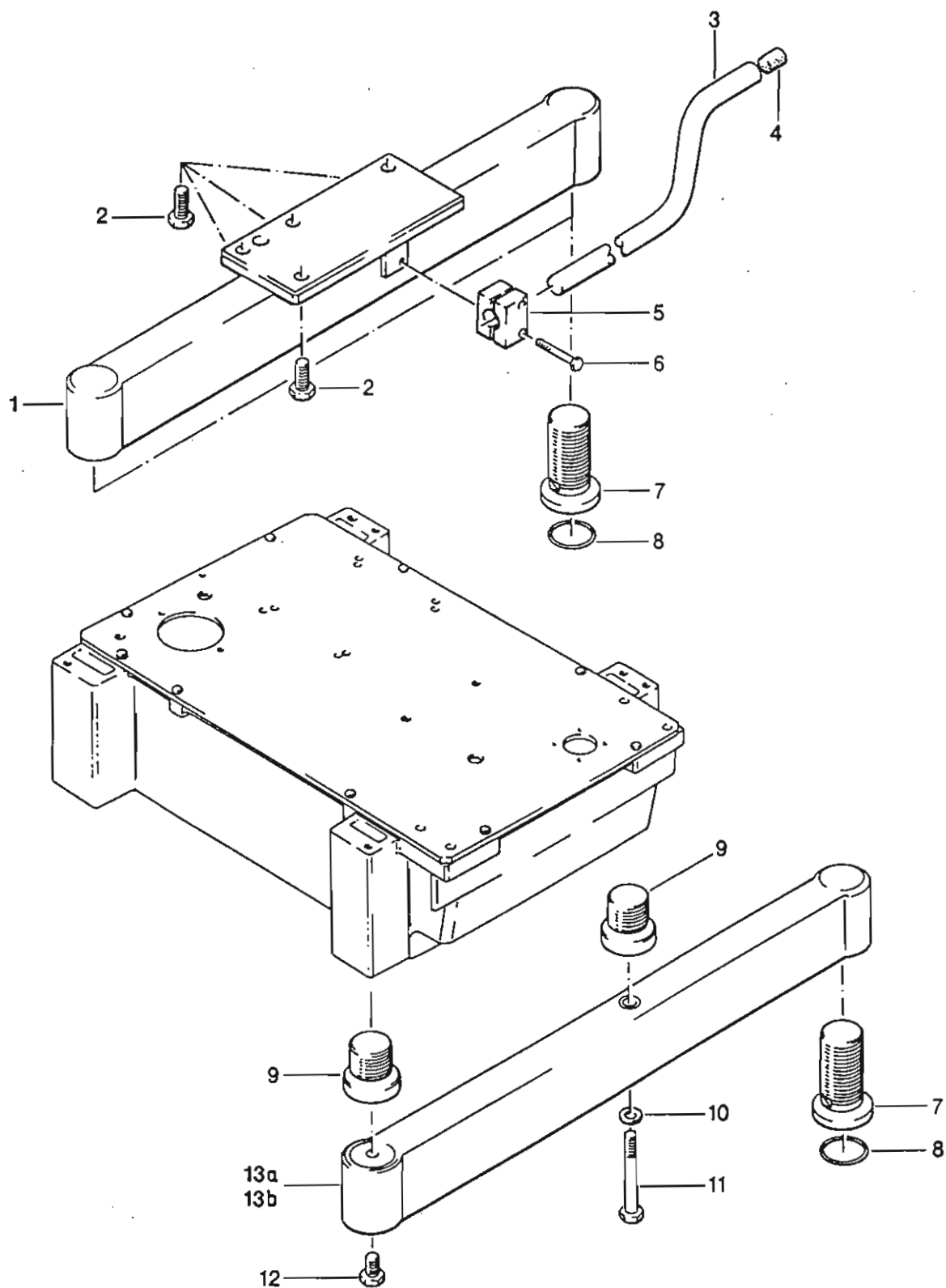
Machine feet without lifter**135.090.001**

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Item	Order no.	Quant.	Designation
1	134.130.020	4	Screw-in foot cpl.
2	061.005.001	4	O-ring seal OR 50x5,5

135.090.002

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Machine feet with lifter (230l-hopper)
135.090.002
Machine feet with lifter (150l-hopper)
135.090.003

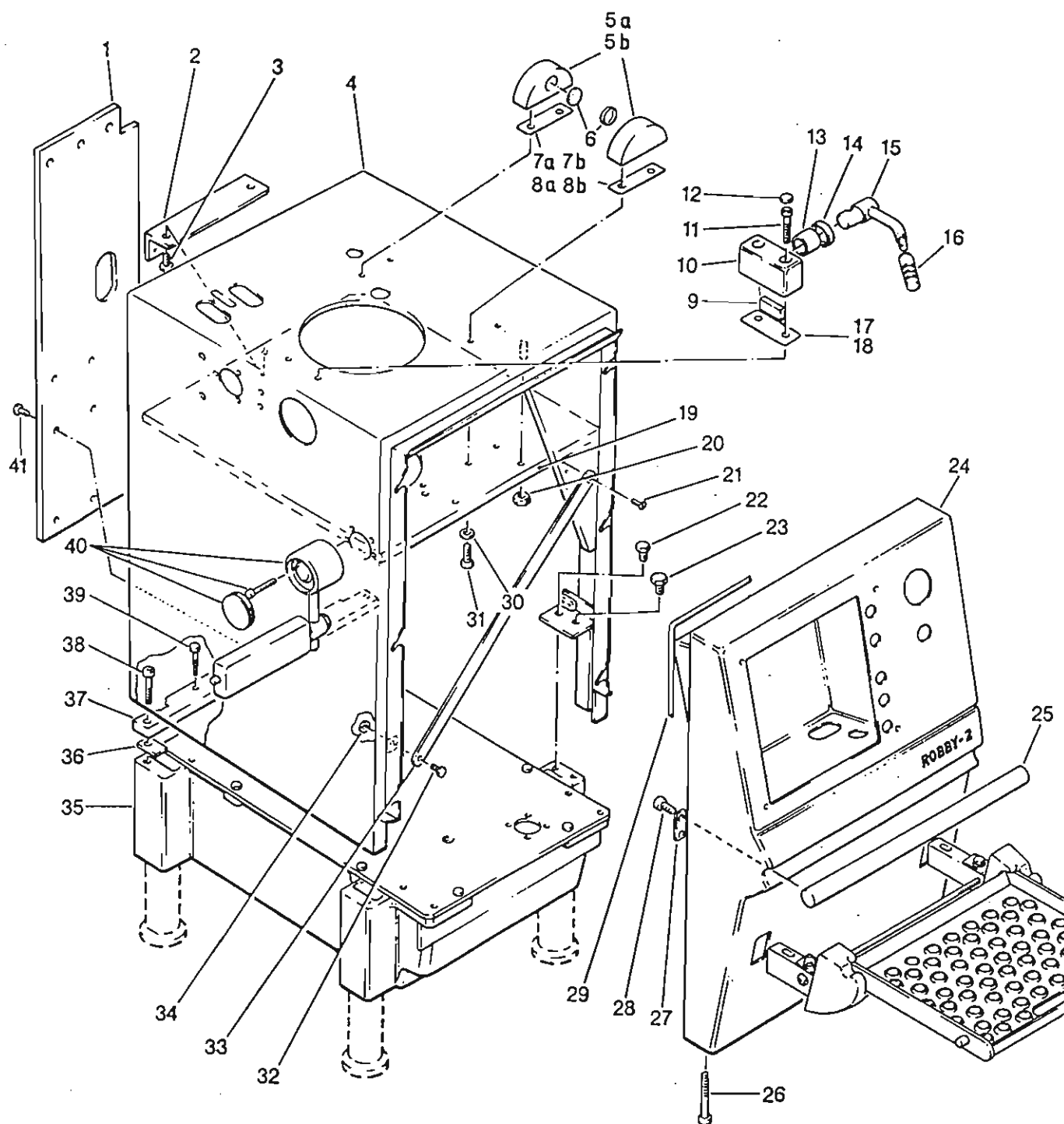
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Item	Order no.	Quant.	Designation
1	135.091.000	1	Bracket assembly
2	040.216.195	4	Hexagon head screw M16x40 DIN 933 A2
3	140.450.010	1	Lifter stop
4	140.450.020	1	Buffer - Vulkolan
5	140.450.030	1	Clamp
6	040.110.275	2	Hexagon head screw M10x70 DIN 931 A2
7	135.090.040	4	Screw-in foot
8	061.005.001	4	O-ring seal OR 50x5,5
9	135.090.030	2	Spacer
10	046.017.010	1	Washer 17 DIN 125 A2
11	040.116.375	1	Hexagon head screw M16x120 DIN 931 A2
12	040.216.155	1	Hexagon head screw M16x30 DIN 933 A2
13a	135.092.000	1	Bracket assembly (f. 135.090.002)
13b	135.092.001	1	Bracket assembly (f. 135.090.003)

135.100.001

135.100.002

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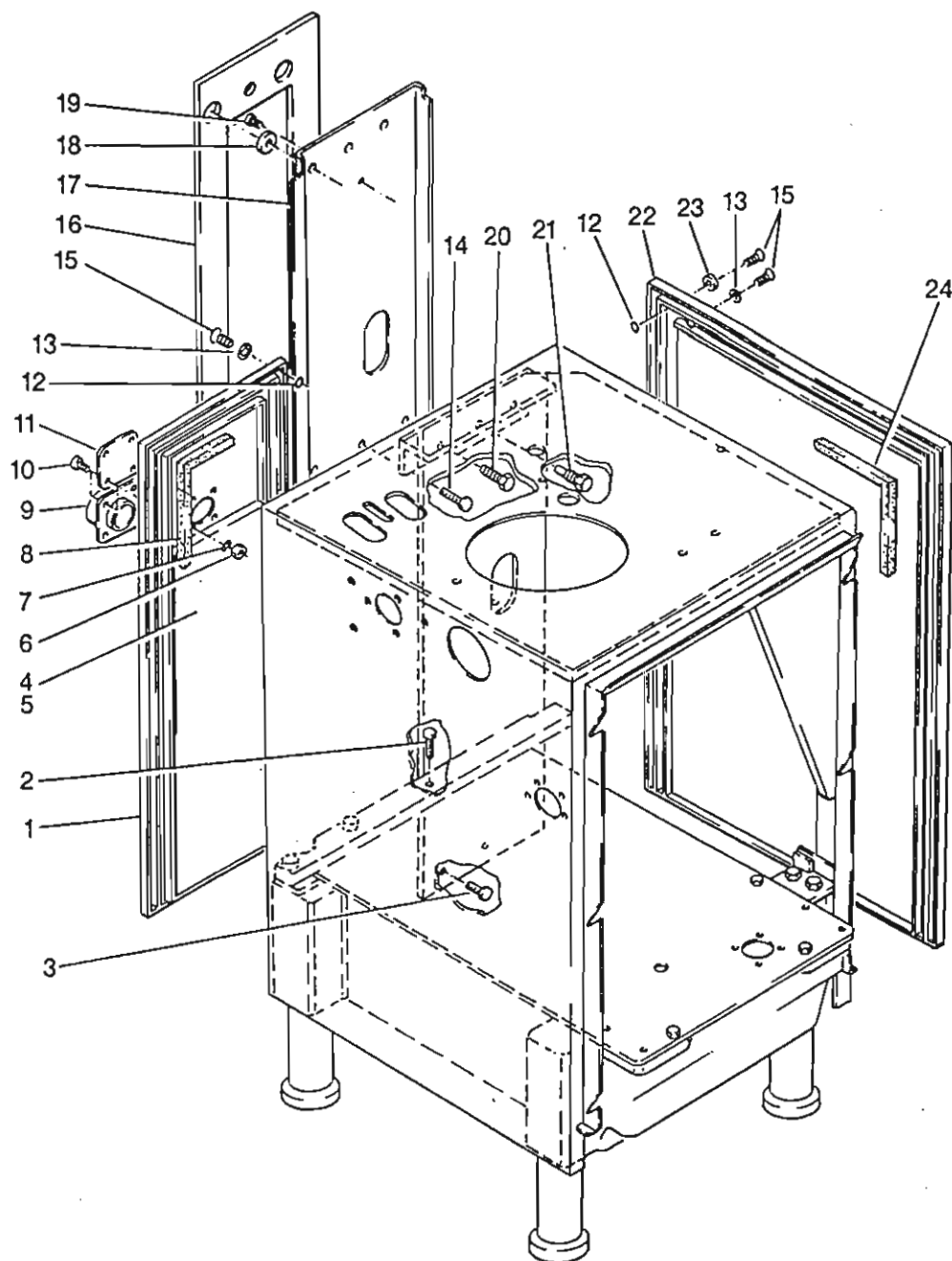
Machine frame cpl. with hopper 150/230 litre
135.100.001
135.100.002

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Item	Order no.	Quant.	Designation
1	135.100.220	1	Lifter plate
2	135.160.000	1	Angle assembly
3	040.212.115	2	Hexagon head screw M12x20 DIN 933
4	135.110.001	1	Machine frame assembly
5a	134.100.111	2	Bearing block up to mach. no. 135.0153
5b	201.360.001	2	Bearing block starting from mach. no. 135.0154
6	135.100.940	2	Distance plate
7a	134.100.140	-	Shim 0,1 up to mach. no. 135.0153
7b	201.100.140	-	Shim 0,1 starting from mach. no. 135.0154
8a	134.100.150	-	Shim 0,5 up to mach. no. 135.0153
8b	201.100.150	-	Shim 0,5 starting from mach. no. 135.0154
9	135.100.690	1	Key
10	135.100.580	1	Seating
11	040.912.247	2	Cheese-head screw M12x55 DIN 912
12	060.302.001	2	Cover
13	135.100.610	1	Permaglide bush
14	135.100.620	1	Sealing ring
15	135.170.000	1	Locking lever assembly
16	135.100.550	1	Grip
17	135.100.670	-	Shim
18	135.100.680	-	Shim
19	135.100.200	1	Base plate
20	045.008.065	11	Hexagon nut M8 DIN 934 V2A
21	041.110.135	1	Countersunk screw M10x25 DIN 7991
22	040.210.156	2	Hexagon head screw M10x30 DIN 933 V2A
23	040.212.155	2	Hexagon head screw M12x30 DIN 933 V2A
24	135.151.000	1	Front guard assembly
25	140.184.020	1	Handle
26	134.150.120	2	Cheese-head screw
27	134.150.070	1	Plate
28	040.908.095	4	Cheese-head screw M8x16 DIN 912 V2A
29	134.150.040	2,4m	Seal
30	046.013.010	4	Washer 13 DIN 125 V2A
31	040.912.177	4	Cheese-head screw M12x35 DIN 912
32	040.210.095	1	Hexagon head screw M10x16 DIN 933
33	135.100.100	1	Frame
34	045.010.065	2	Hexagon nut M10 DIN 934
35	135.130.000	1	Tank cpl.
36	135.100.130	2	Plate
37	135.100.120	1	Frame
38	041.012.255	2	Cheese-head screw M12x60 DIN 912
39	040.208.235	2	Hexagon head screw M8x50 DIN 933
40	140.140.000	1	Knee lever bearing
41	040.210.115	3	Hexagon head screw M10x20 DIN 933

135.100.001

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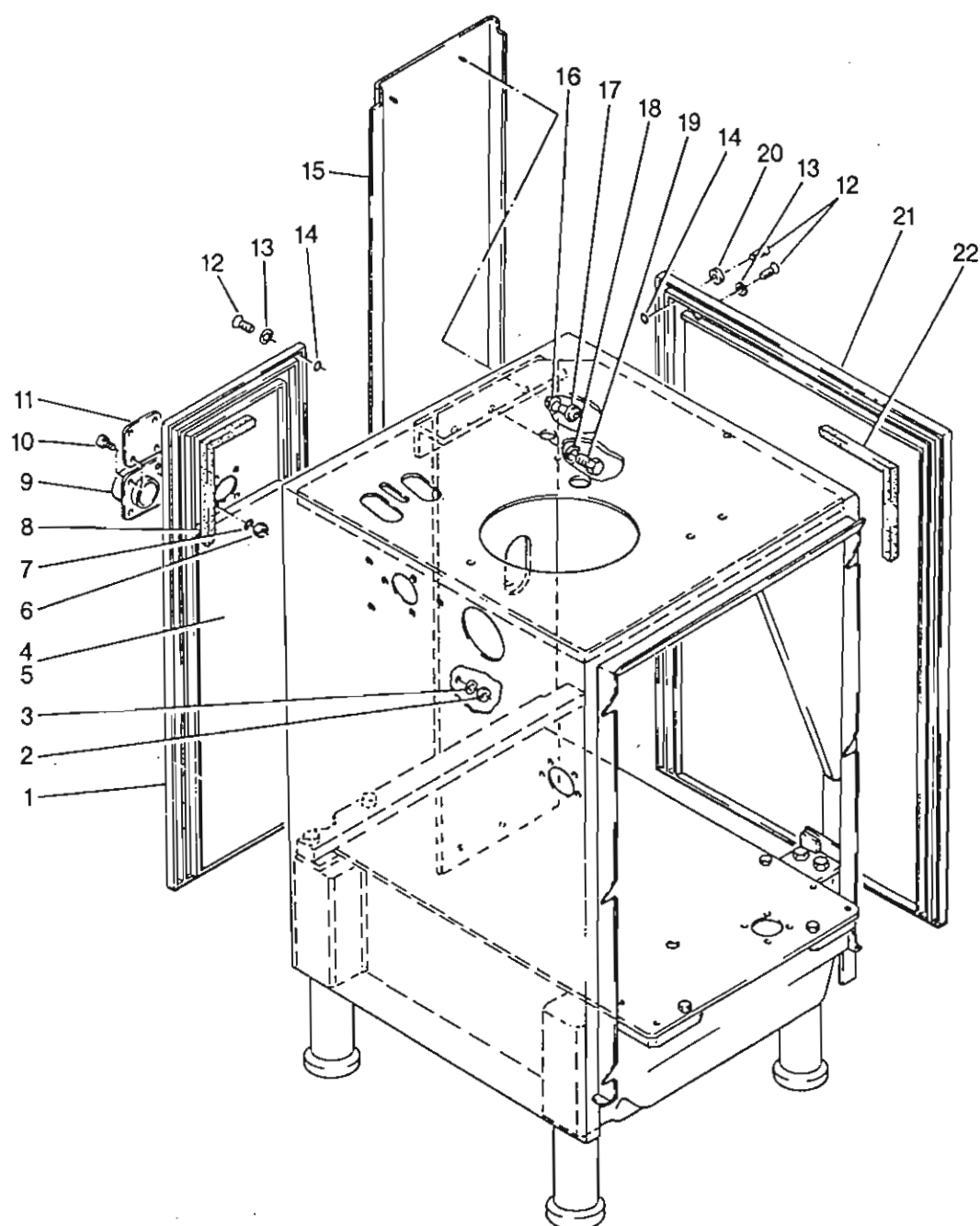
Machine cover for mounted lifter
135.100.001

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Item	Order no.	Quant.	Designation
1	135.141.000	1	Cover cpl. small
2	040.208.135	1	Hexagon head screw M8x25 DIN 933
3	040.208.115	2	Hexagon head screw M8x20 DIN 933
4	134.120.130	1	Insulation for vacuum pump
5	096.011.404	0,06kg	Cement Technikoll
6	045.004.065	4	Hexagon nut M4 DIN 934 V2A
7	046.504.035	4	Spring washer A4 DIN 128
8	061.201.503	2m	Square packing cord
9	134.872.301	1	Remote control socket
10	041.604.065	4	Ckeese-head screw M4x12 DIN 84 V2A
11	140.830.201	1	Dummy cover for socket
12	061.000.601	8	O-ring seal OR 6,3x2,4
13	067.110.071	8	Plastic disc 7,5x15x1
14	040.210.195	3	Hexagon head screw M10x40 DIN 933
15	042.108.115	9	Raised countersunk head screw M8x20 DIN 964 V2A
16	135.100.150	1	Seal
17	135.100.230	1	Coating sheet
18	135.100.160	6	Bush
19	040.206.055	2	Hexagon head screw M6x10 DIN 933
20	040.212.215	2	Hexagon head screw M12x45 DIN 933
21	135.100.310	1	Hexagon head screw
22	135.121.000	1	Cover assembly
23	067.110.081	1	Rosette
24	061.201.503	2,3m	Square packing cord

135.100.002

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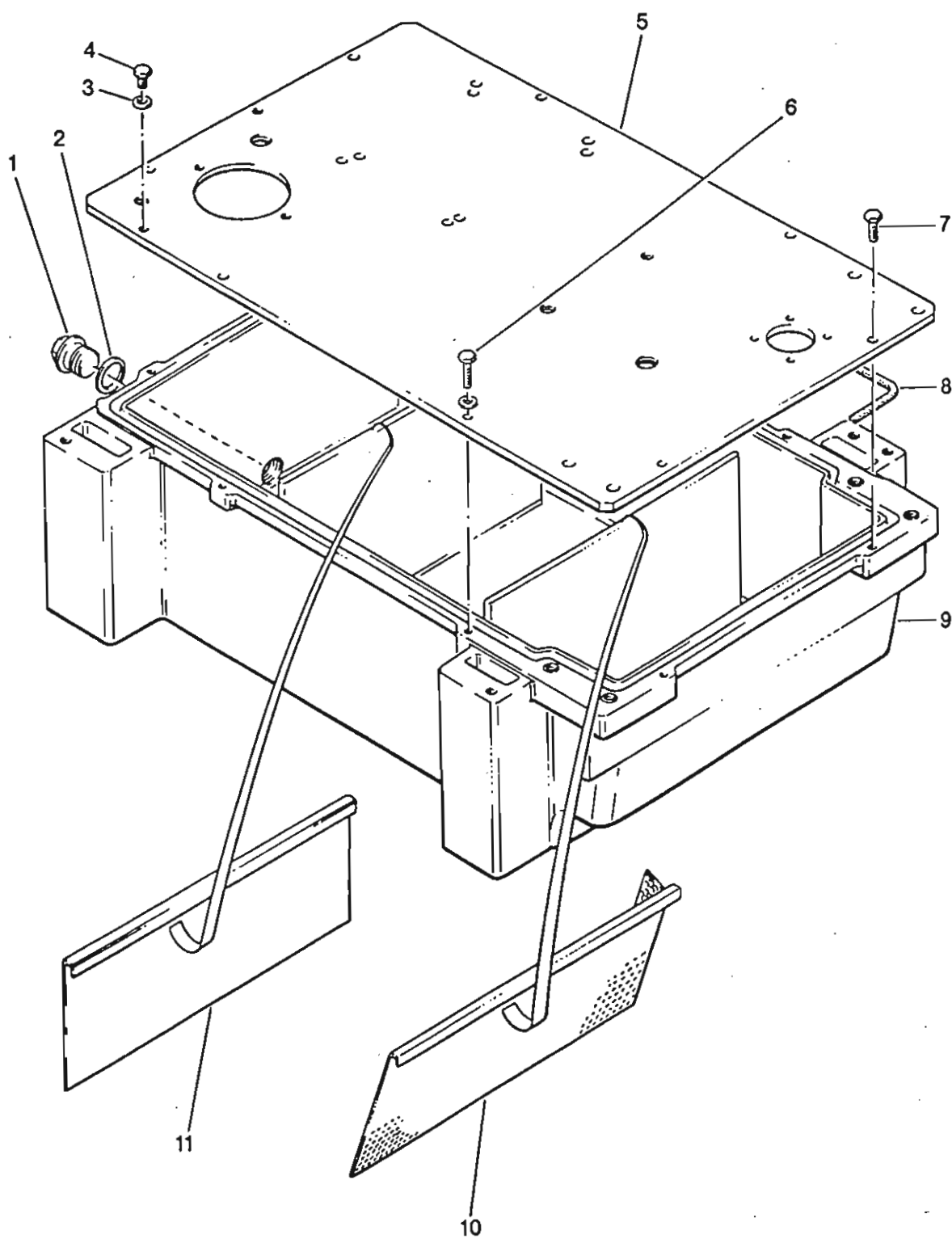
Machine cover for construction without lifter
135.100.002

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Item	Order no.	Quant.	Designation
1	135.141.000	1	Cover assembly small
2	045.008.065	3	Hexagon nut M8 DIN 934
3	046.108.020	3	Washer B8,4 DIN 9021
4	134.120.130	1	Insulation for vacuum pump
5	096.011.404	0,06kg	Cement Technikoll
6	045.004.065	4	Hexagon nut M4 DIN 934 V2A
7	046.504.035	4	Spring washer A4 DIN 128
8	061.201.503	2m	Square packing cord
9	134.872.301	1	Remote control socket
10	041.604.065	4	Cheese-head screw M4x12 DIN 84 V2A
11	140.830.201	1	Dummy cover for socket
12	042.108.115	9	Raised countersunk head screw M8x20 DIN 964 V2A
13	067.110.071	8	Plastic disc 7,5x15x1
14	061.000.601	8	O-ring seal OR 6,3x2,4
15	135.190.001	1	Couting sheet
16	046.013.010	2	Washer 13 DIN 125
17	135.100.240	2	Nut
18	046.017.010	2	Washer 17 DIN 125
19	040.216.115	1	Hexagon head screw M16x20 DIN 933
20	067.110.081	1	Rosette
21	135.121.000	1	Cover assembly
22	061.201.503	2,3m	Square packing cord

135.130.000

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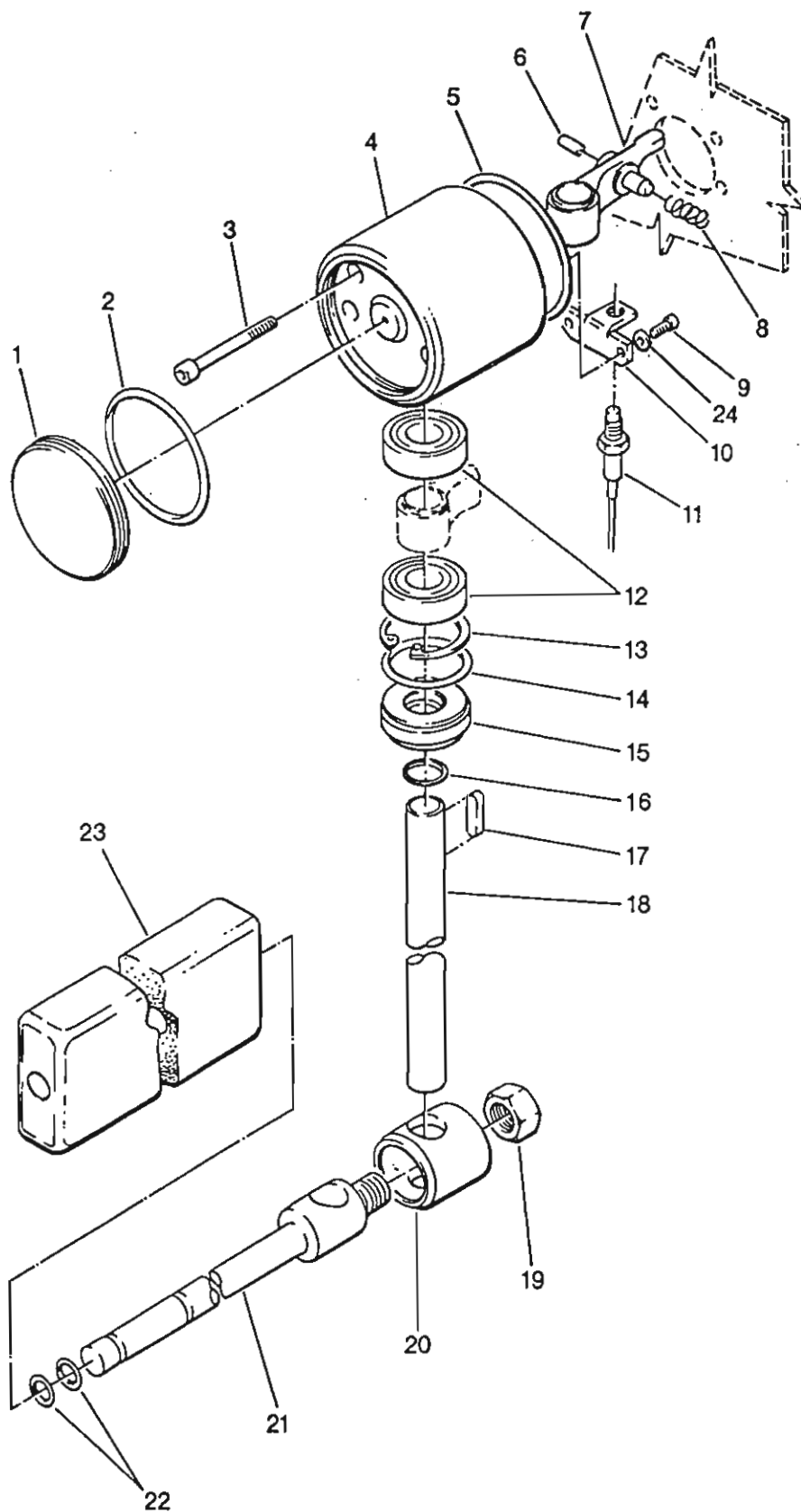
Tank cpl.**135.130.000**

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Item	Order no.	Quant.	Designation
1	043.027.240	1	Plug screw G 3/4 A DIN 910
2	061.502.601	1	Sealing ring A26x31 DIN 7603
3	046.008.010	2	Washer 8,4 DIN 125
4	040.208.065	1	Hexagon head screw M8x12 DIN 933
5	135.130.080	1	Tank cover
6	040.208.155	1	Hexagon head screw M8x30 DIN 933
7	040.208.135	5	Hexagon head screw M8x25 DIN 933
8	135.130.110	1	Hose seal
9	134.131.000	1	Tank assembly
10	134.130.060	1	Dividing plate
11	134.130.050	1	Dividing plate

140.140.000

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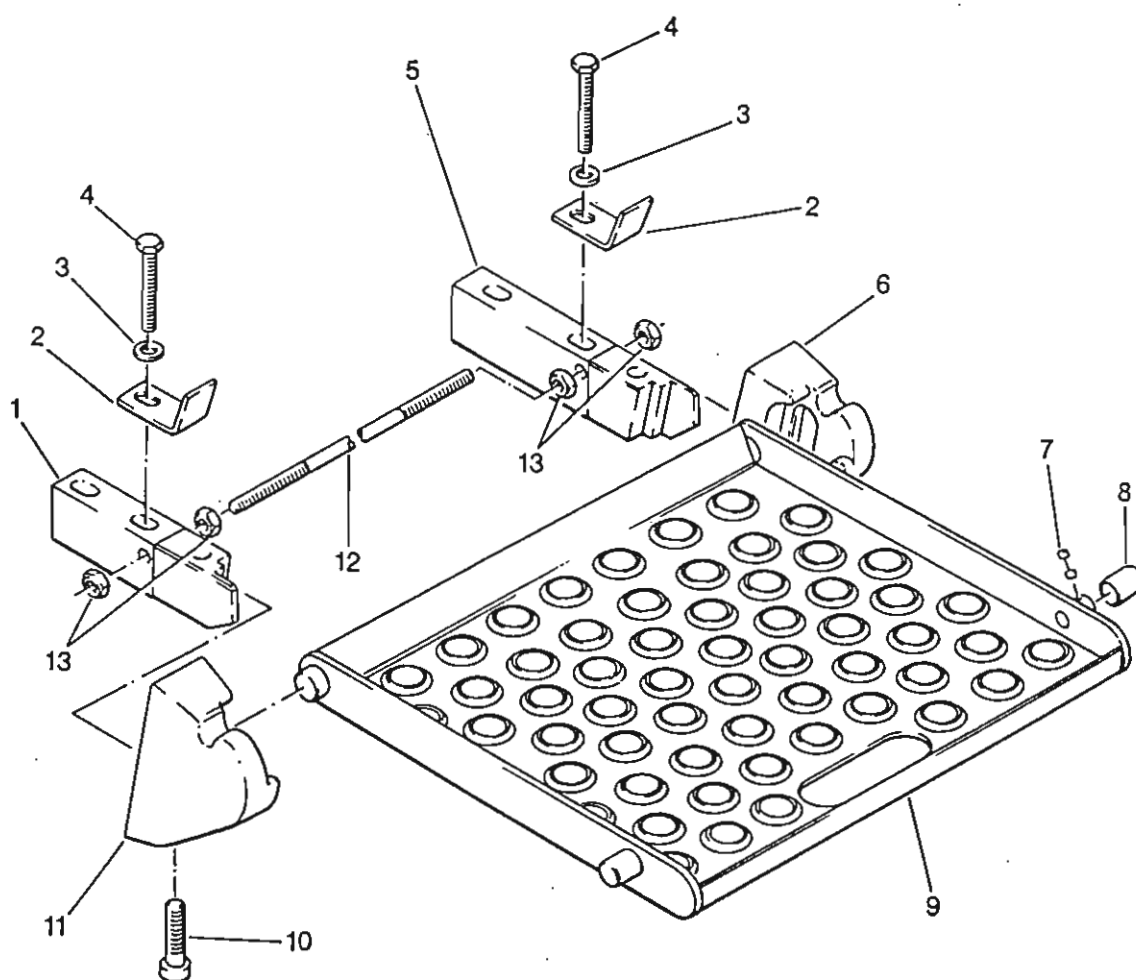
Knee lever bearing
140.140.000

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Item	Order no.	Quant.	Designation
1	140.140.300	1	Cover
2	061.005.702	1	O-ring seal 57-3
3	040.906.255	4	Cheese-head screw M6x60 DIN 912
4	140.140.010	1	Bearing housing
5	061.007.301	1	O-ring seal OR73-3
6	140.140.040	1	Buffer
7	140.140.020	1	Lever
8	090.783.801	1	Pressure spring d=1; Dm=10; L=44,5
9	040.904.055	2	Cheese-head screw M4x10 DIN 912 V2A
10	140.140.270	1	Switch support
11	134.871.101	1	Wire with knee lever switch B3
12	063.060.045	2	Grooved ball bearing 6004-2RS (20/42/12)
13	049.320.420	1	Circlip J42x1,75 DIN 472
14	061.003.601	1	O-ring seal OR 36,2-3
15	123.170.110	1	Disc
16	061.002.002	1	O-ring seal OR 20,2-2,4
17	049.006.100	1	Key A6x6x25 DIN 6885
18	123.170.030	1	Switching shaft
19	045.120.025	1	Hexagon nut M20 DIN 439 V2A
20	140.140.180	1	Clamping bush
21	140.140.170	1	Switching bar
22	061.001.101	2	O-ring seal OR11,3-2,4
23	140.140.220	1	Switching ledge
24	046.004.010	2	Washer 4,3 DIN 125

135.180.001

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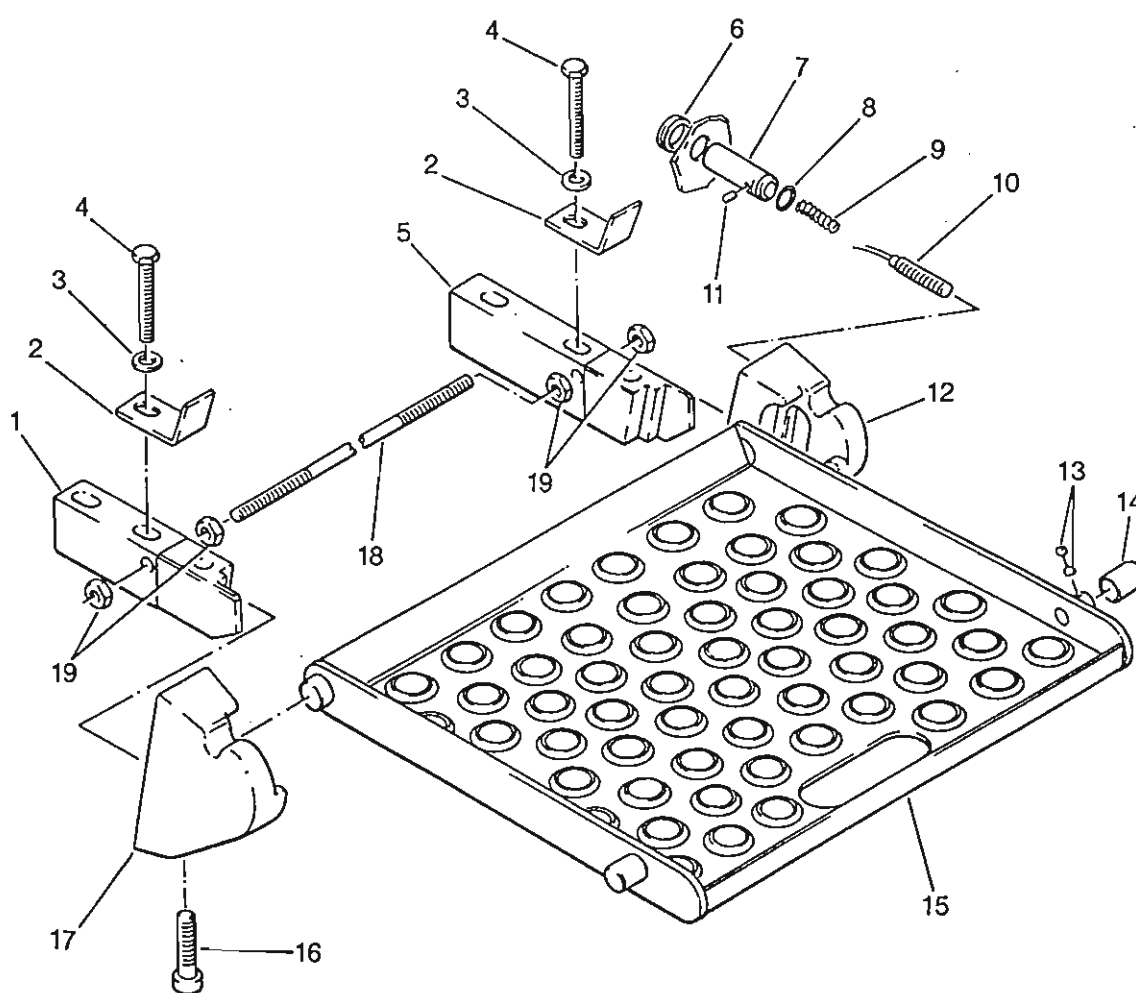
Step cpl. without safety switch
135.180.001

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Item	Order no.	Quant.	Designation
1	135.180.050	1	Support left hand side
2	135.180.030	2	Supporting plate
3	046.010.010	4	Washer 10,5 DIN 125 V2A
4	040.110.275	4	Hexagon head screw M10x70 DIN 931 V2A
5	135.180.040	1	Support right hand side
6	135.180.011	1	Holder right hand side
7	071.405.051	2	Solenoid magnet
8	135.180.150	1	Cap
9	135.185.000	1	Step assembly
10	040.912.235	2	Cheese-head screw M12x50 DIN 912 V2A
11	135.180.020	1	Holder left hand side
12	135.180.070	1	Safety rod
13	045.010.065	4	Hexagon nut M10 DIN 934

135.180.002

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Step cpl. with safety switch

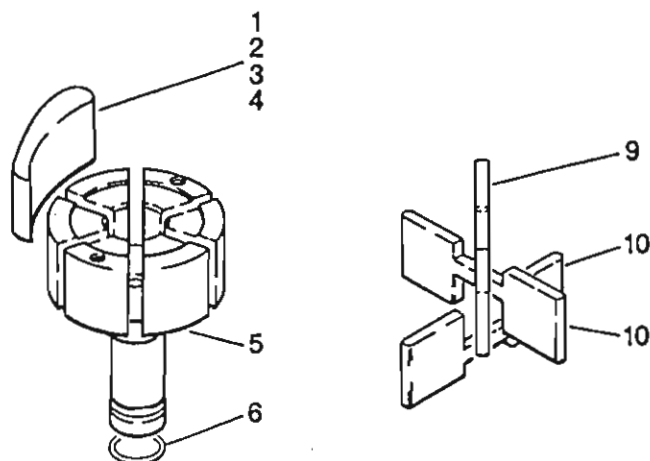
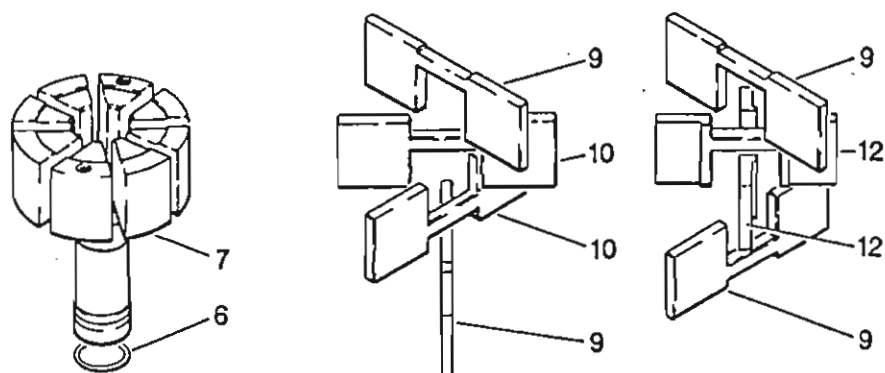
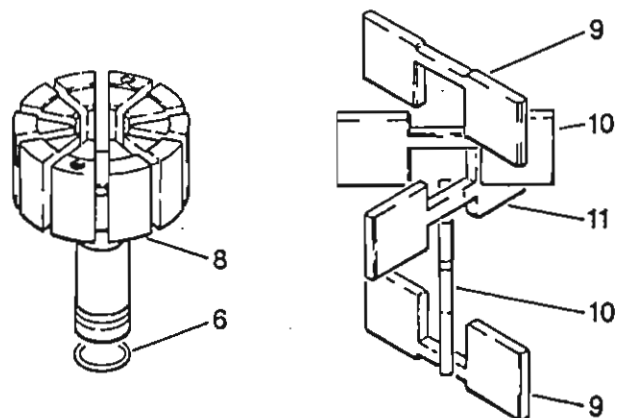
135.180.002

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Item	Order no.	Quant.	Designation
1	135.180.050	1	Support left hand side
2	135.180.030	2	Supporting plate
3	046.010.010	4	Washer 10,5 DIN 125 V2A
4	040.110.275	4	Hexagon head screw M10x70 DIN 931 V2A
5	135.180.040	1	Support right hand side
6	061.401.801	1	V-ring V18S
7	135.180.140	1	Sleeve
8	061.001.201	1	O-ring seal OR12,3x2,4
9	090.712.601	1	Pressure spring
10	140.872.502	1	Safety switch
11	047.704.055	1	Cylindrical pin 4m6x8 DIN 7 V2A
12	135.180.011	1	Holder right hand
13	071.405.051	2	Solenoid magnet
14	135.180.150	1	Cap
15	135.185.000	1	Step assembly
16	040.912.235	2	Cheese-head screw M12x50 DIN 912 V2A
17	135.180.020	1	Holder left hand
18	135.180.070	1	Safety rod
19	045.010.065	4	Hexagon nut M10 DIN 934
			retrofitkit safety switch on the step 135.940.002 includes : Pos. 6,7,8,9,10 a. 11.

134.230.000

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6 chambers**8 chambers/
4 chambers****10 chambers**

Parts of feeding mechanism

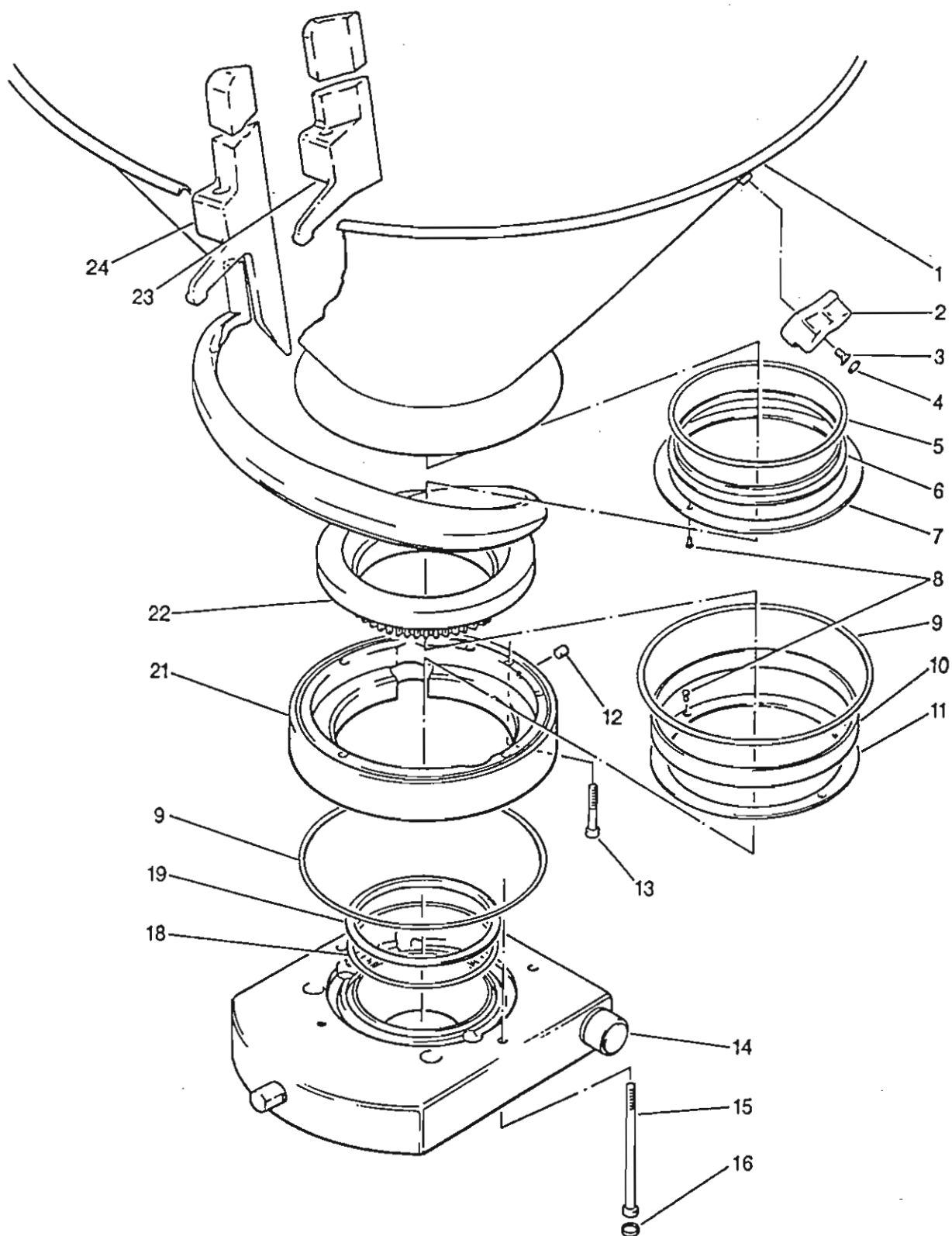
134.230.000

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Item	Order no.	Quant.	Designation
1	134.200.070	1	Fitting part A **
2	134.200.080	-	Fitting part B **
3	134.200.090	-	Fitting part C **
4	134.200.100	-	Fitting part D **
5	134.231.010	1	Rotor /6
6	061.003.201	1	O-ring seal OR 32,2x3
7	134.232.010	1	Rotor /8
8	134.233.010	1	Rotor /10
9	134.233.031	*	Vane
10	134.233.041	*	Vane
11	134.233.051	*	Vane
12	134.232.070	2	Dummy vane, only in connection with 8 chamber rotor
			* Quantity see opposite view 6/8/10 chamber rotor ** Only for machines with housing 134.200.020

135.300.003

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Hopper with infeed scroll cpl., 230 litre

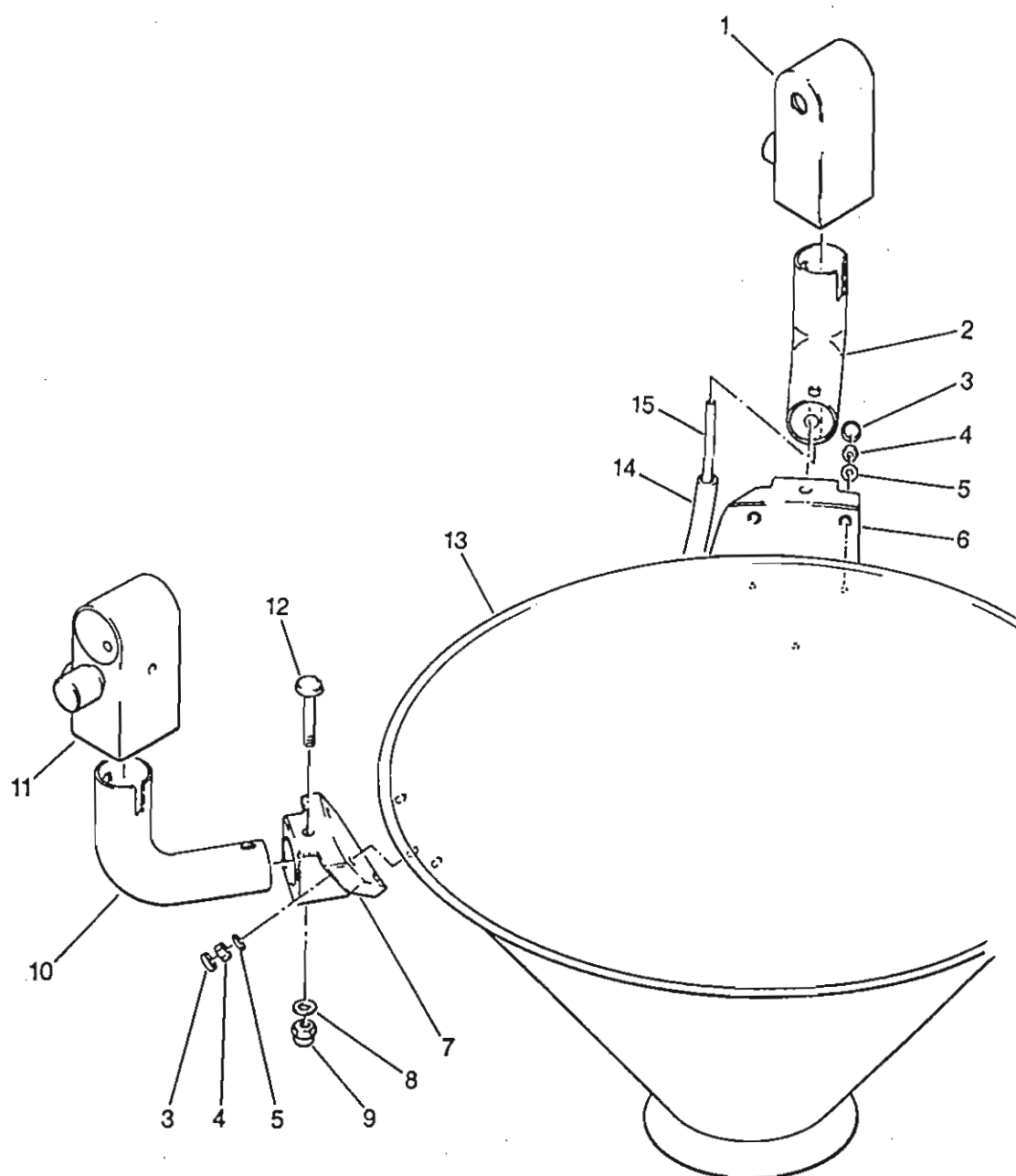
135.300.003

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Item	Order no.	Quant.	Designation
1	135.321.000	1	Hopper lower part assembly
2	134.320.050	1	Buffer
3	041.106.065	1	Countersunk screw M6x12 DIN 7991 V2A
4	134.320.070	1	Cover
*5	134.300.480	1	Silicone hose (on replacement deliver 134.300.481)
*6	134.300.450	1	Sliding ring (on replacement deliver 134.300.451)
7	134.320.090	1	Flanged disc
8	048.303.535	4	Grooved drive stud 3x6 DIN 1477 V2A
9	061.021.301	2	O-ring seal OR213-3
10	134.300.220	1	Bush
11	134.320.090	1	Flanged disc
12	047.708.035	1	Cylindrical pin 8m6x6 DIN 7 V2A
13	040.906.215	2	Cheese-head screw M6x45 DIN 912 V2A
°14	134.340.001	1	Hinged housing cpl.
15	040.908.295	4	Cheese-head screw M8x80 DIN 912 V2A
16	060.301.501	4	Plastic cap DIN 988
17			
*18	134.300.470	1	Silicone hose (on replacement deliver 134.300.471)
*19	134.300.460	1	Sliding ring (on replacement deliver 134.300.461)
20			
21	134.300.170	1	Toothed ring bearing
22	134.370.000	1	Toothed ring with infeed scroll assembly
23	135.300.160	1	Scraper short (on replacement deliver 135.300.161)
24	135.300.150	1	Scraper long (on replacement deliver 135.300.151)
			*on replacement pos. 5 and 6 as well as pos. 18 and 19 have to be replaced paired
			° respect. 135.340.001

135.300.003

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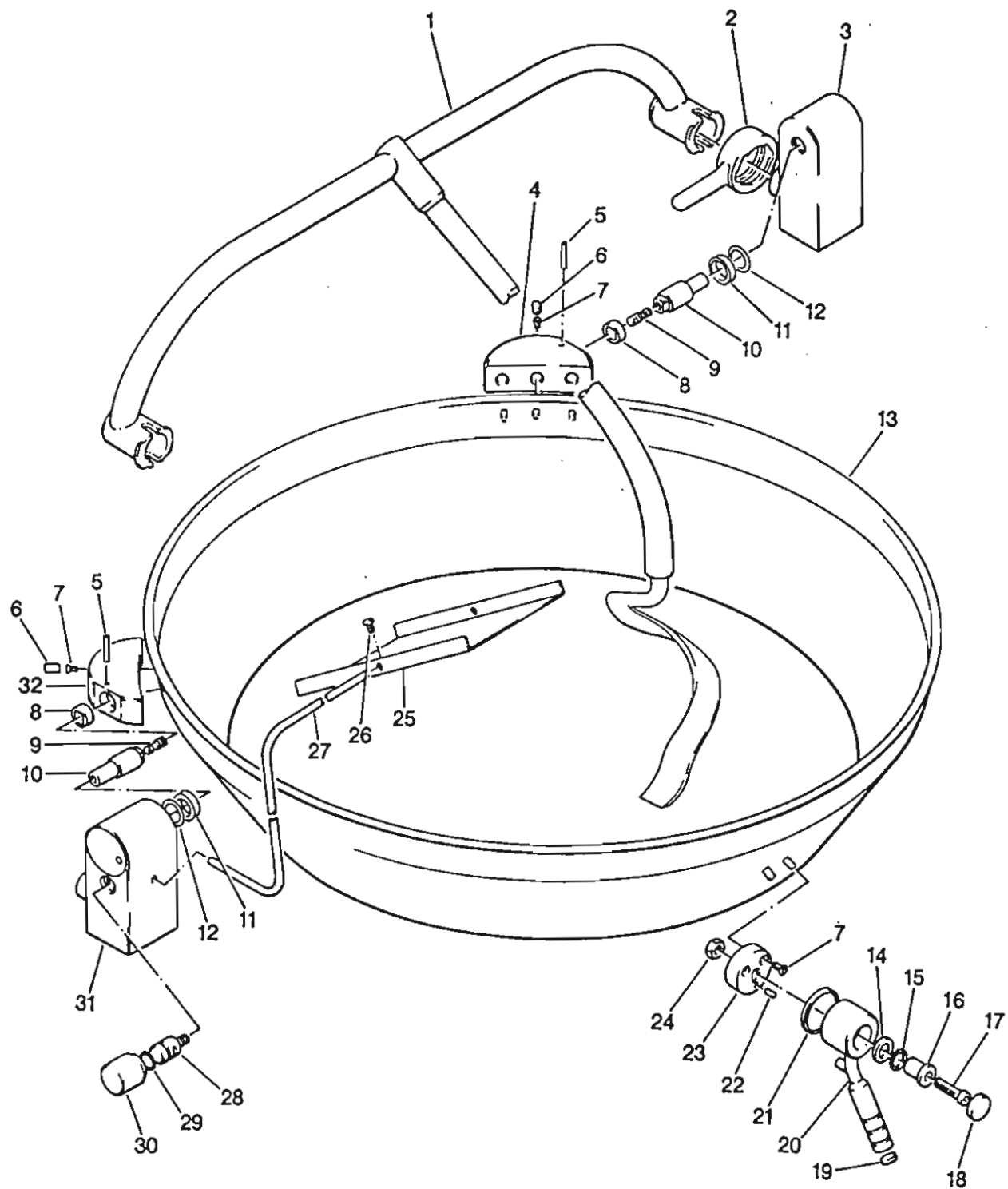
Hopper with infeed scroll cpl., 230 litre**135.300.003**

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Item	Order no.	Quant.	Designation
1	135.360.000	1	Hopper hinge without safety switch cpl. r.h.s.
2	135.350.000	1	Support assembly right hand side
3	060.302.001	6	Cap ø 20 H13 DIN 988
4	045.008.065	6	Hexagon nut M8 DIN 934 V2A
5	046.008.010	6	Washer 8,4 DIN 125 V2A
6	135.300.310	1	Seating, right hand side
7	135.300.320	1	Seating, left hand side
8	046.113.015	2	Washer A13 DIN 9021
9	045.312.065	2	Cap nut M12 DIN 1587
10	135.350.001	1	Support assembly left hand side
11	135.380.000	1	Hopper hinge without safety switch cpl. l.h.s.
12	135.300.410	2	Bolt
13	135.321.000	1	Hopper lower part assembly
14	067.440.121	1	High-pressure hose*
15	067.410.061	1	Plastic hose*
			*only for machines with safety switch within hopper hinge

135.300.003

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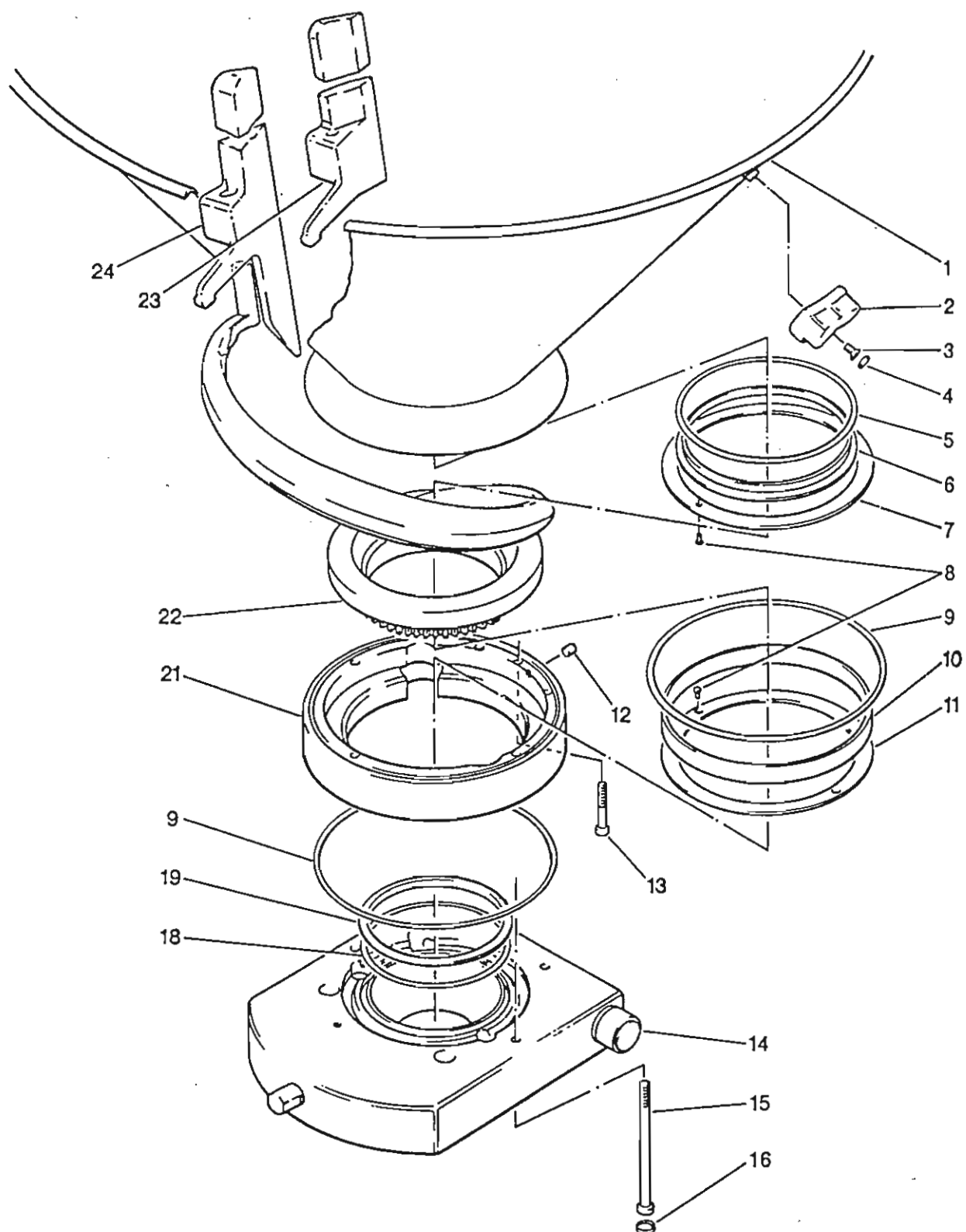
Hopper with infeed scroll cpl., 230 litre
135.300.003

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Item	Order no.	Quant.	Designation
1	135.391.003	1	Holding-up curve assembly
2	135.390.030	2	Locking handle
3	135.360.000	1	Hopper hinge without safety switch cpl.
4	135.310.250	1	Holder (hinge with safety switch)
5	047.705.195	2	Cylindrical pin 5m6x36 DIN 7 V2A
6	061.201.402	0,2m	Plug
7	041.106.065	8	Countersunk screw M6x12 DIN 7991 V2A
8	134.380.130	2	Disc
9	135.300.060	2	Threaded rod
10	135.300.291	2	Shaft
11	135.300.300	2	Sealing ring
12	049.750.258	-	Seeger shim
13	135.311.000	1	Hopper upper part assembly
14	135.310.110	1	Disc
15	064.829.005	2	Roller bearing shim 19,3x25,8x0,3 L+M 1100
16	135.310.150	1	Collar bush
17	041.010.215	1	Cheese-head screw M10x45 DIN 6912 V2A
18	060.303.302	1	Plastic cap
19	060.302.001	1	Plasik cap
20	135.312.000	1	Locking handle cpl. (incl. pos. 19 and 21)
21	135.312.050	1	Sliding ring
22	047.705.065	1	Cylindrical pin 5m6x10 DIN 7 V2A
23	135.310.060	1	Setting bush
24	045.010.065	1	Hexagon nut M10 DIN 934 V2A
25	140.307.000	1	Mirror assembly
26	040.206.055	1	Hexagon head screw M6x10 DIN 933
27	140.302.170	1	Mirror rod
28	135.310.190	1	Bolt
29	061.002.002	1	O-ring seal OR20,3-2,4 kerved
30	140.500.350	1	Cap
31	135.380.000	1	Hopper hinge without safety switch cpl.
32	135.310.240	1	Holder

135.300.002

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Hopper with infeed scroll cpl., 150 litre

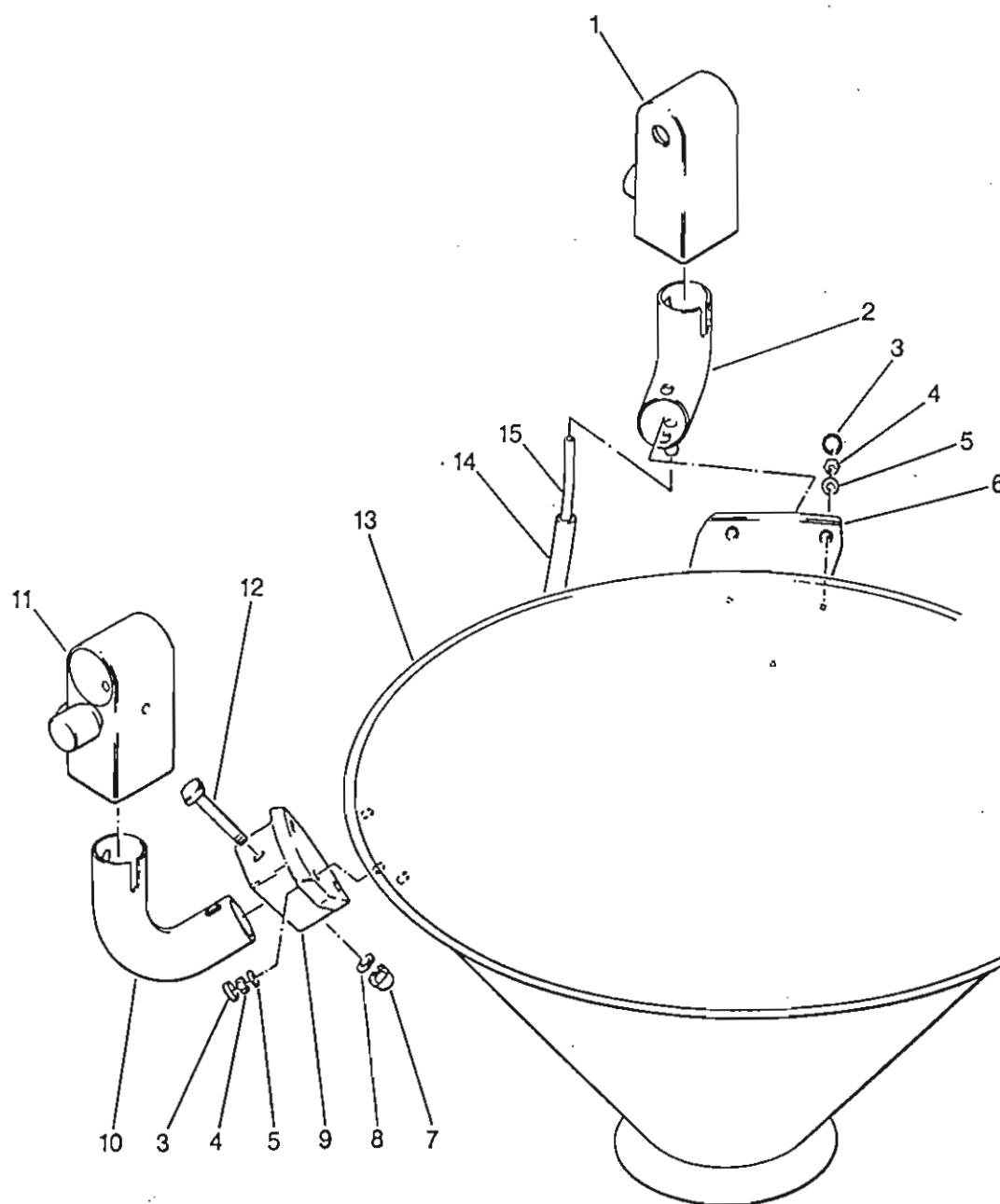
135.300.002

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.321.000	1	Hopper lower part assembly
2	134.320.050	1	Buffer
3	041.106.065	1	Countersunk screw M6x12 DIN 7991 V2A
4	134.320.070	1	Cover
*5	134.300.480	1	Silicone hose (on replacement deliver 134.300.471)
*6	134.300.450	1	Sliding ring (on replacement deliver 134.300.451)
7	134.320.090	1	Flanged disc
8	048.303.535	4	Grooved drive stud 3x6 DIN 1477 V2A
9	061.021.301	2	O-ring seal OR213-3
10	134.300.220	1	Bush
11	134.320.090	1	Flanged disc
12	047.708.035	1	Cylindrical pin 8m6x6 DIN 7 V2A
13	040.906.215	2	Cheese-head screw M6x45 DIN 912 V2A
°14	134.340.001	1	Hinged housing cpl.
15	040.908.295	4	Cheese-head screw M8x80 DIN 912 V2A
16	060.301.501	4	Cap DIN 988
17			
*18	134.300.470	1	Silicone hose (on replacement deliver 134.300.471)
*19	134.300.460	1	Sliding ring (on replacement deliver 134.300.461)
20			
21	134.300.170	1	Toothed ring bearing
22	134.370.000	1	Toothed ring with infeed scroll assembly
23	135.300.160	1	Scraper short (on replacement deliver 134.300.161)
24	135.300.150	1	Scraper long (on replacement deliver 134.300.151)
*on replacement pos. 5 and 6 as well as pos. 18 and 19 have to be replaced paired ° respect. 135.340.001			

135.300.002

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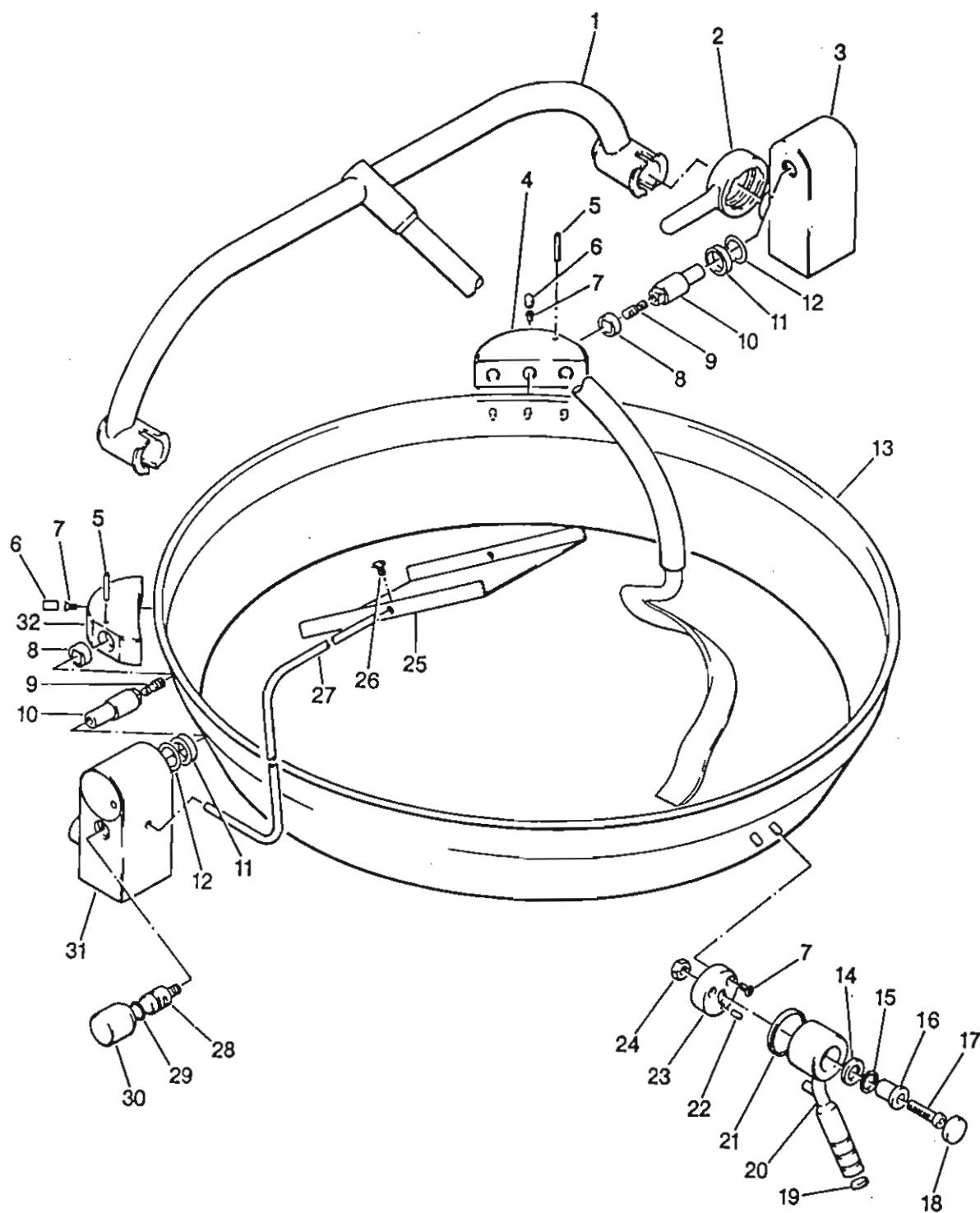
Hopper with infeed scroll cpl., 150 litre**135.300.002**

page 2 of 3

Item	Order no.	Quant.	Designation
1	135.360.000	1	Hopper hinge with safety switch cpl. r.h.s.
2	135.350.004	1	Support assembly right hand side (for machines without safety switch within hopper hinge)
3	060.302.001	6	Cap ø 20 H13 DIN 988
4	045.008.065	6	Hexagon nut M8 DIN 934 V2A
5	046.008.010	6	Washer 8,4 DIN 125 V2A
6	135.300.311	1	Seating, right hand side
7	045.312.065	2	Cap nut M12 DIN 1587
8	046.113.015	2	Washer A13 DIN 9021
9	135.300.321	1	Seating left hand side
10	135.350.003	1	Support assembly left hand side
11	135.380.000	1	Hopper hinge without safety switch cpl.
12	135.300.411	2	Bolt
13	135.321.000	1	Hopper lower part assembly
14	067.440.121	1	High-pressure hose*
15	067.410.061	1	Plastic hose*
			 *only for machines with safety switch within hopper hinge

135.300.002

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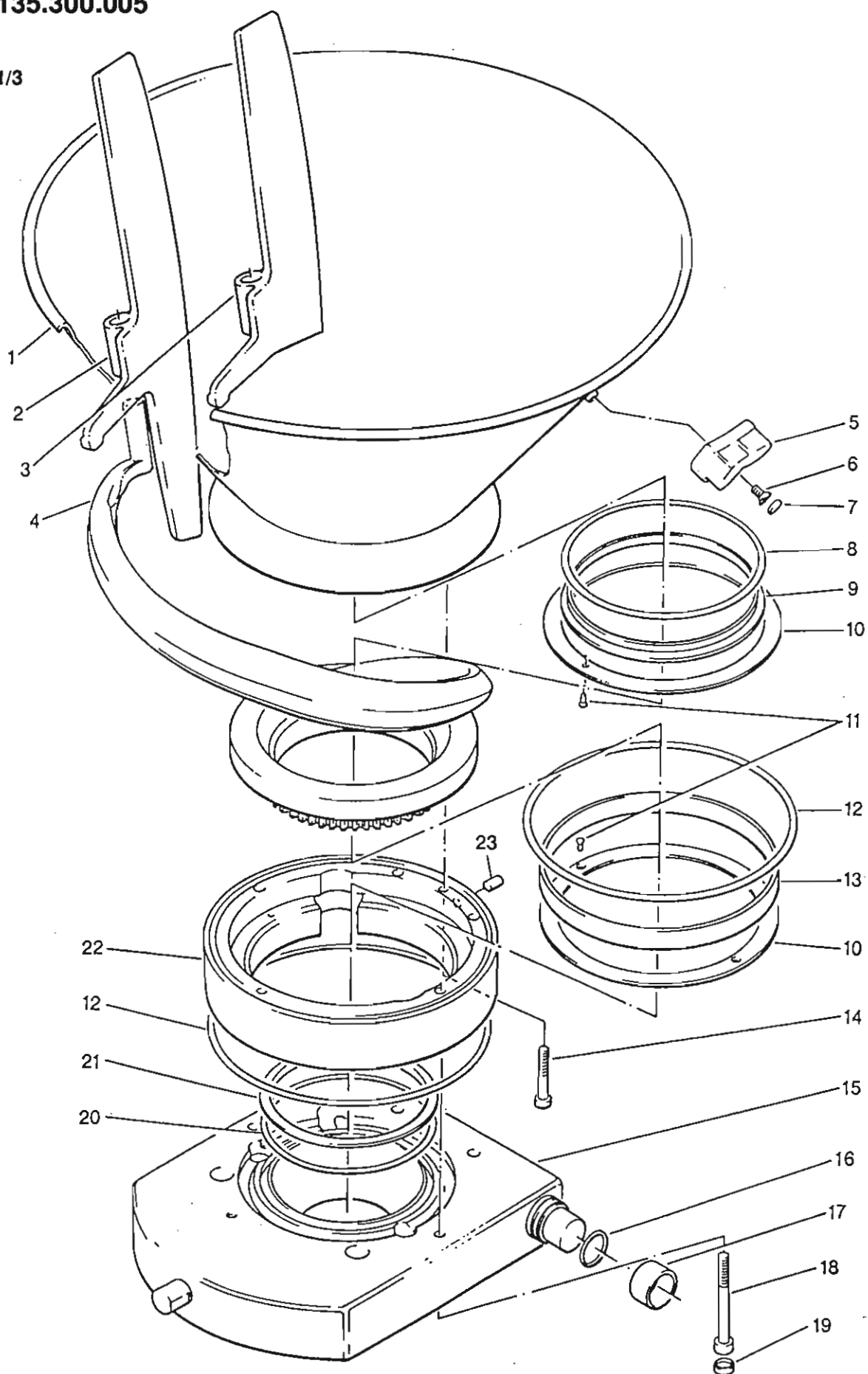
Hopper with infeed scroll cpl., 150 litre
135.300.002

page 3 of 3

Item	Order no.	Quant.	Designation
1	135.391.004	1	Holding-up curve assembly
2	135.390.030	2	Locking handle
3	135.360.000	1	Hopper hinge without safety switch cpl.
4	135.310.251	1	Holder (hinge with safety switch)
5	047.705.195	2	Cylindrical pin 5m6x36 DIN 7 V2A
6	061.201.402	0,2m	Plug
7	041.106.065	8	Countersunk screw M6x12 DIN 7991 V2A
8	134.380.130	2	Disc
9	135.300.060	2	Threaded rod
10	135.300.291	2	Shaft
11	135.300.300	2	Sealing ring
12	049.750.258	-	Seeger shim
13	135.311.001	1	Hopper upper part assembly
14	135.310.110	1	Disc
15	064.829.005	2	Roller bearing shim 19,3x25,8x0,3 L+M 1100
16	135.310.150	1	Collar bush
17	041.010.215	1	Cheese-head screw M10x45 DIN 6912 V2A
18	060.303.302	1	Cap
19	060.302.001	1	Cap
20	135.312.000	1	Locking handle cpl.
21	135.312.050	1	Sliding ring
22	047.705.065	1	Cylindrical pin 5m6x10 DIN 7 V2A
23	135.310.060	1	Setting bush
24	045.010.065	1	Hexagon nut M10 DIN 934 V2A
25	140.307.000	1	Mirror assembly
26	040.206.055	1	Hexagon head screw M6x10 DIN 933
27	140.302.170	1	Mirror rod
28	135.310.190	1	Bolt
29	061.002.002	1	O-ring seal OR20,3-2,4 kerved
30	140.500.350	1	Cap
31	135.380.000	1	Hopper hinge without safety switch cpl.
32	135.310.241	1	Holder

135.300.005

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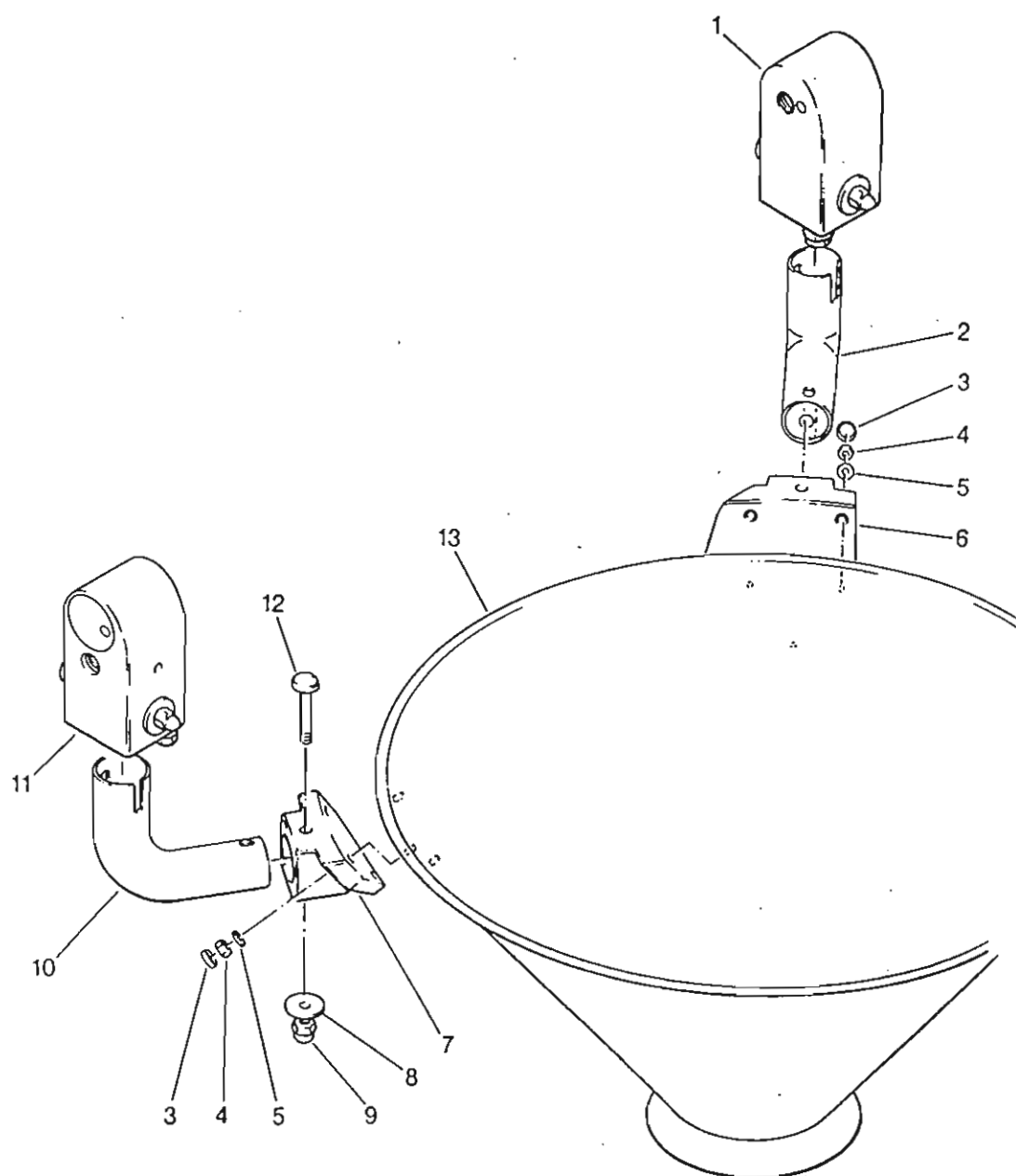
Hopper with infeed scroll cpl., 230 litre
135.300.005

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.321.000	1	Hopper lower part assembly
2	135.300.151	1	Scraper long
3	135.300.161	1	Scraper short
4	134.370.000	1	Toothed ring with infeed scroll assembly
5	134.320.050	1	Buffer
6	041.106.065	1	Countersunk screw M6x12
7	134.320.070	1	Cover
8	134.300.481	1	Silicone hose
9	134.300.451	1	Sliding ring
10	134.320.090	2	Flanged disc
11	048.303.535	4	Grooved drive stud 3x6 DIN 1477 V2A
12	061.021.301	2	O-ring seal OR213-3
13	134.300.220	1	Bush
14	040.906.215	2	Cheese-head screw M6x45 DIN 912 V2A
15	135.340.002	1	Hinged housing cpl.
16	061.002.803	2	O-ring seal OR28-3
17	064.920.307	2	Bush Permaglide
18	040.908.295	4	Cheese-head screw M8x80 DIN 912 V2A
19	060.301.501	4	Plastic cap
20	134.300.471	1	Silicone hose
21	134.300.461	1	Sliding ring
22	134.300.170	1	Toothed ring bearing
23	047.708.035	1	Cylindrical pin 8m6x6 DIN 7 V2A

135.300.005

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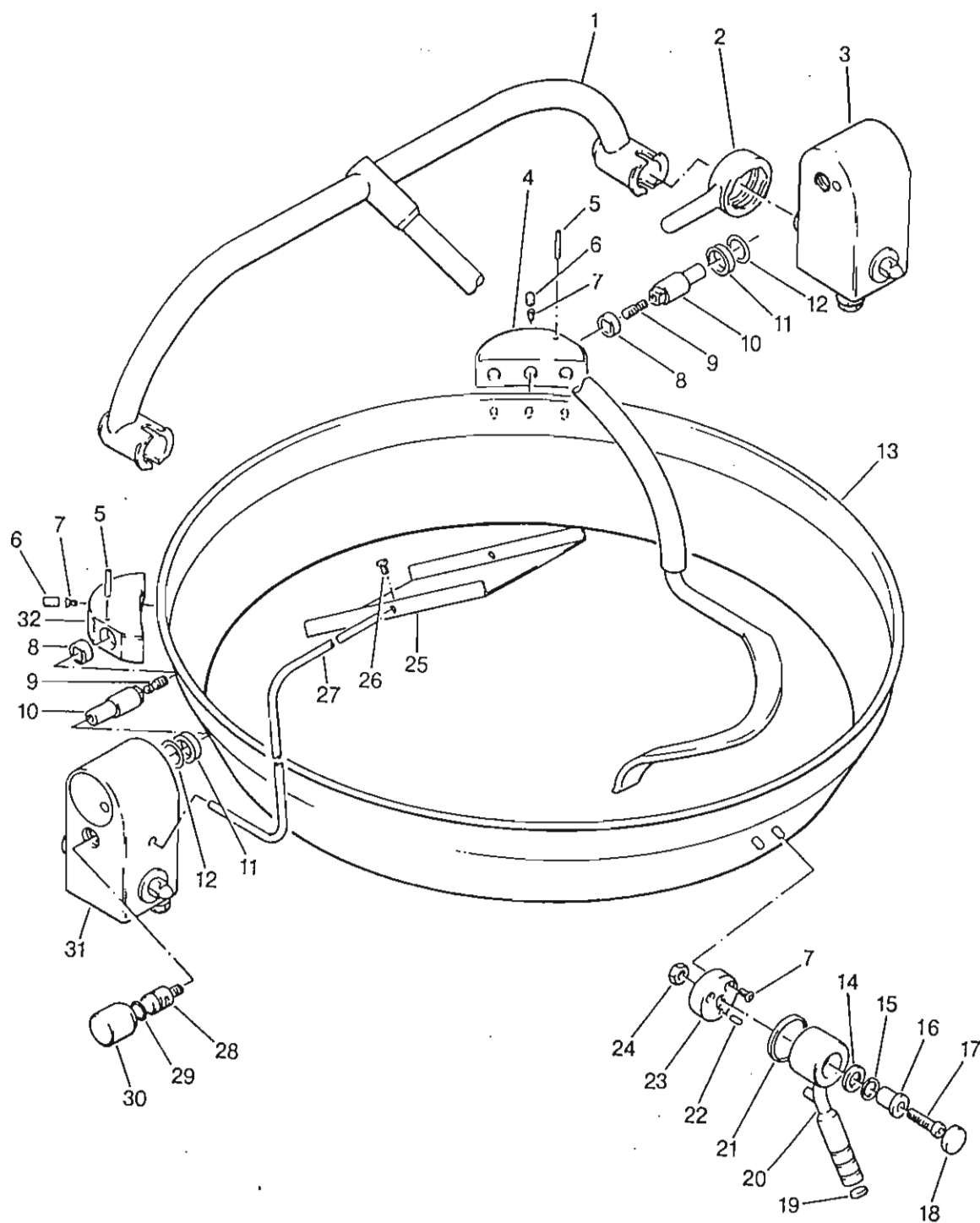
Hopper with infeed scroll cpl., 230 litre
135.300.005

page 2 of 3

Item	Order no.	Quant.	Designation
1	135.360.001	1	Hopper hinge without safety switch cpl. r.h.s.
2	135.350.000	1	Support assembly right hand side
3	060.302.001	6	Plastic cap
4	045.008.065	6	Hexagon nut M8 DIN 934 V2A
5	046.008.010	6	Washer 8,4 DIN 125 V2A
6	135.300.310	1	Seating, right hand side
7	135.300.320	1	Seating, left hand side
8	046.113.015	2	Washer A13 DIN 9021
9	045.312.065	2	Cap nut M12 DIN 1587
10	135.350.001	1	Support assembly left hand side
11	135.380.001	1	Hopper hinge without safety switch cpl.
12	135.300.410	2	Bolt
13	135.321.000	1	Hopper lower part assembly

135.300.005

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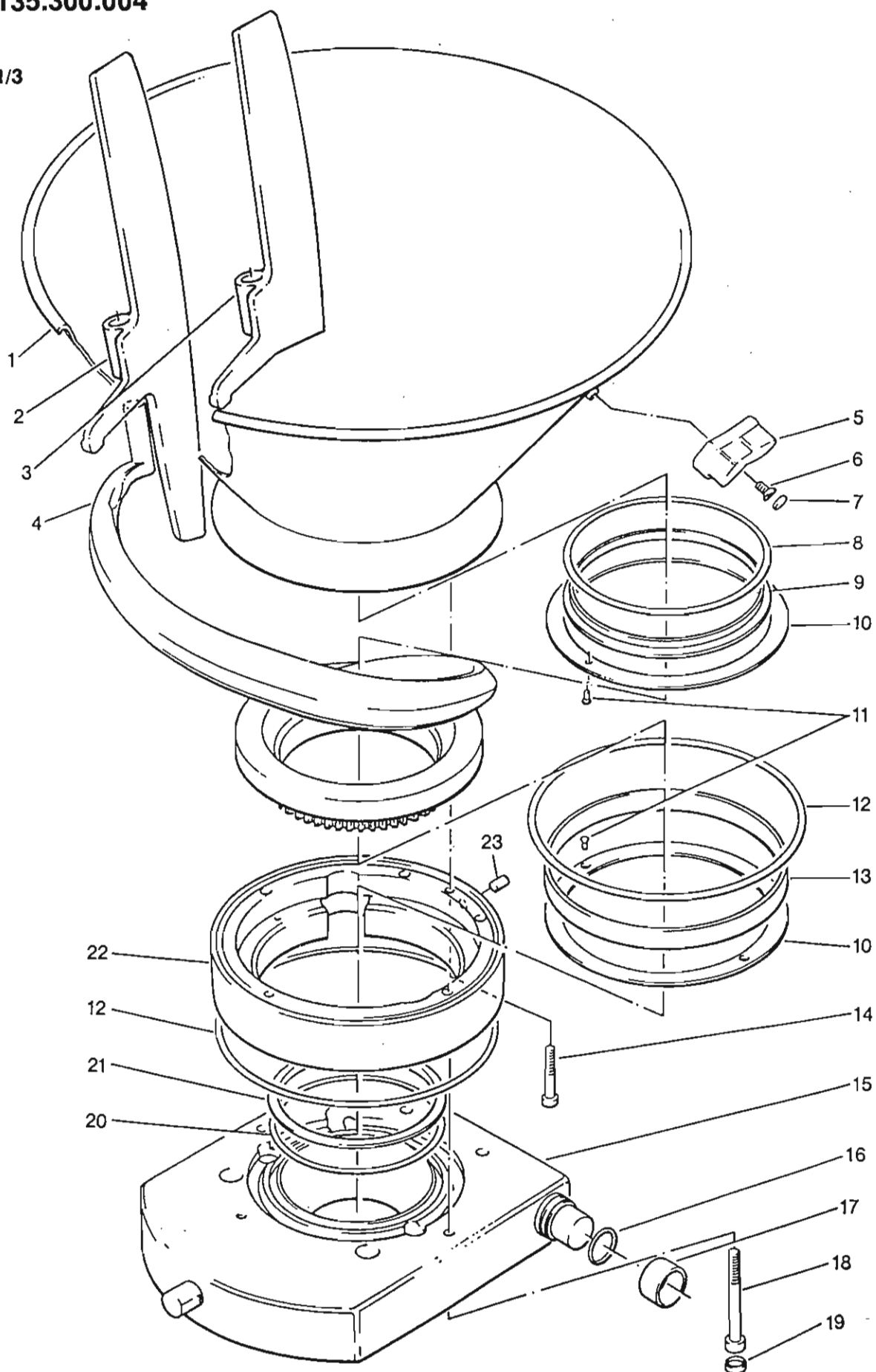
Hopper with infeed scroll cpl., 230 litre
135.300.005

page 3 of 3

Item	Order no.	Quant.	Designation
1	135.391.003	1	Holding-up curve assembly
2	135.390.030	2	Locking handle
3	135.360.001	1	Hopper hinge without safety switch cpl.
4	135.310.250	1	Holder
5	047.705.195	2	Cylindrical pin 5m6x36 DIN 7 V2A
6	061.201.402	0,2m	Plug
7	041.106.065	8	Countersunk screw M6x12 DIN 7991 V2A
8	134.380.130	2	Disc
9	135.300.060	2	Threaded rod
10	135.300.292	2	Shaft
11	135.300.300	2	Sealing ring
12	049.750.258	-	Seeger shim
13	135.311.000	1	Hopper upper part assembly
14	135.310.110	1	Disc
15	064.829.005	2	Roller bearing shim 19,3x25,8x0,3 L+M 1100
16	135.310.150	1	Collar bush
17	041.010.215	1	Cheese-head screw M10x45 DIN 6912 V2A
18	060.303.302	1	Plastic cap
19	060.302.001	1	Plastic cap
20	135.312.000	1	Locking handle cpl. (incl. pos. 19 a. 21)
21	135.312.050	1	Sliding ring
22	047.705.065	1	Cylindrical pin 5m6x10 DIN 7 V2A
23	135.310.060	1	Setting bush
24	045.010.065	1	Hexagon nut M10 DIN 934 V2A
25	140.307.000	1	Mirror assembly
26	040.206.055	1	Hexagon head screw M6x10 DIN 933
27	140.302.170	1	Mirror rod
28	135.310.190	1	Bolt
29	061.002.002	1	O-ring seal OR20,3-2,4 kerved
30	140.500.350	1	Cap
31	135.380.001	1	Hopper hinge without safety switch cpl.
32	135.310.240	1	Holder

135.300.004

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Hopper with infeed scroll cpl., 150 litre

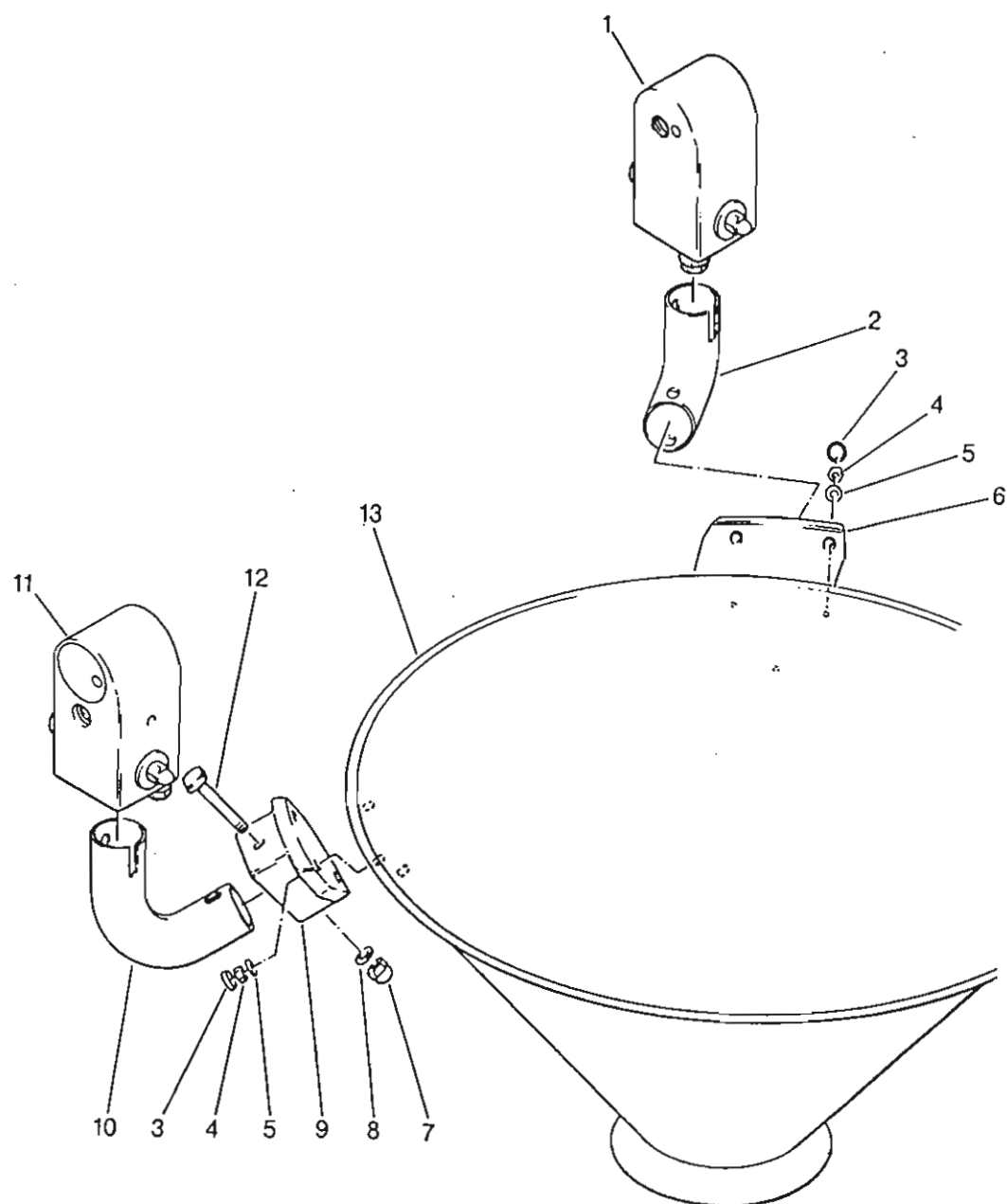
135.300.004

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.321.000	1	Hopper lower part assembly
2	135.300.151	1	Scraper long
3	135.300.161	1	Scraper short
4	134.370.000	1	Toothed ring with infeed scroll assembly
5	134.320.050	1	Buffer
6	041.106.065	1	Countersunk screw M6x12
7	134.320.070	1	Cover
8	134.300.481	1	Silicone hose
9	134.300.451	1	Sliding ring
10	134.320.090	2	Flanged disc
11	048.303.535	4	Grooved drive stud 3x6 DIN 1477 V2A
12	061.021.301	2	O-ring seal OR213-3
13	134.300.220	1	Bush
14	040.906.215	2	Cheese-head screw M6x45 DIN 912 V2A
15	135.340.002	1	Hinged housing cpl.
16	061.002.803	2	O-ring seal OR28-3
17	064.920.307	2	Bush Permaglide
18	040.908.295	4	Cheese-head screw M8x80 DIN 912 V2A
19	060.301.501	4	Plastic cap
20	134.300.471	1	Silicone hose
21	134.300.461	1	Sliding ring
22	134.300.170	1	Toothed ring bearing
23	047.708.035	1	Cylindrical pin 8m6x6 DIN 7 V2A

135.300.004

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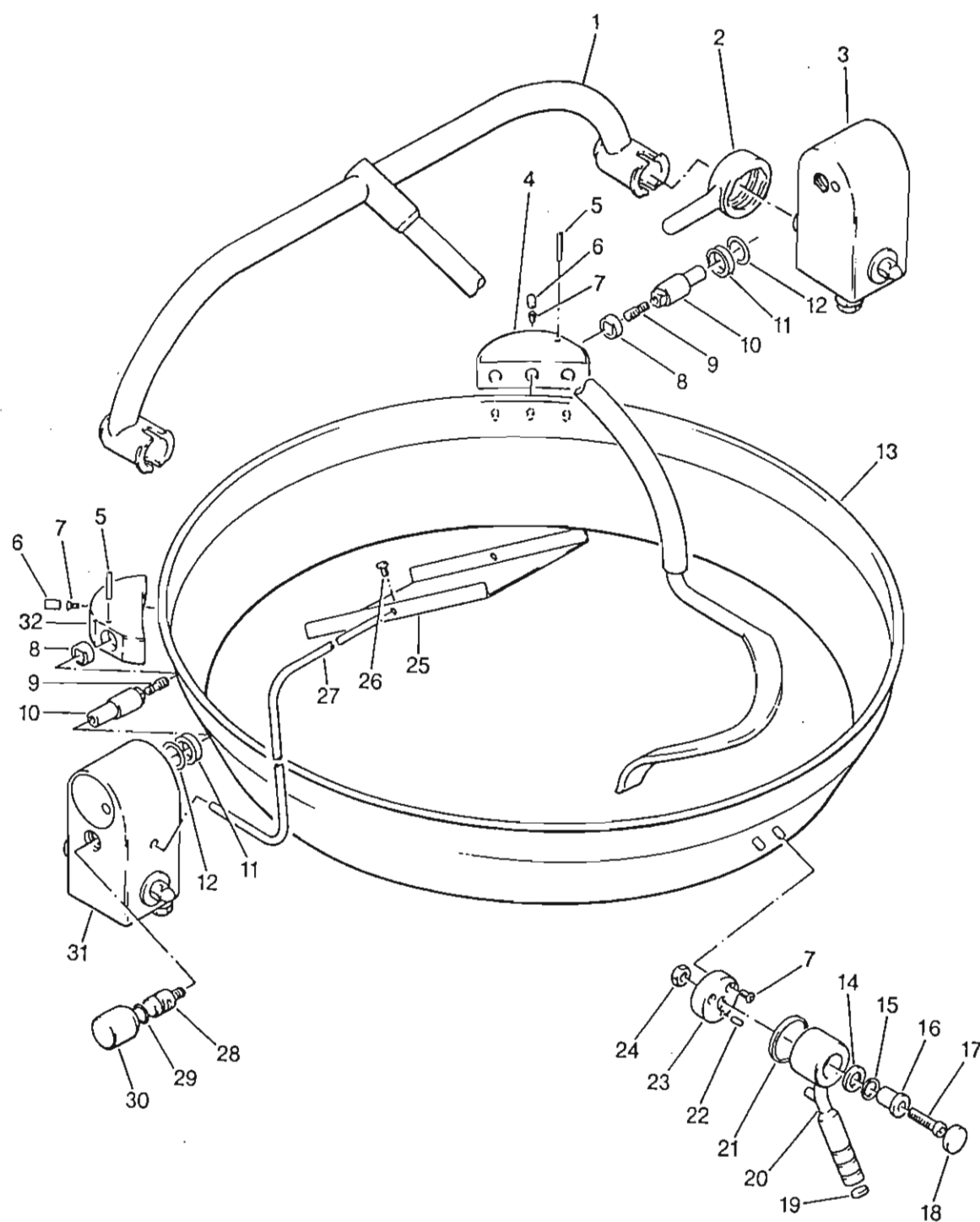
Hopper with infeed scroll cpl., 150 litre
135.300.004

page 2 of 3

Item	Order no.	Quant.	Designation
1	135.360.001	1	Hopper hinge without safety switch cpl. r.h.s.
2	135.350.001	1	Support assembly right hand side (for machines with safety switch within hopper hinge)
3	060.302.001	4	Plastic cap ø 20
4	045.008.065	6	Hexagon nut M8 DIN 934 V2A
5	046.008.010	6	Washer 8,4 DIN 125 V2A
6	135.300.311	1	Seating, right hand side
7	045.312.065	2	Cap nut M12 DIN 1587
8	046.113.015	2	Washer A13 DIN 9021
9	135.300.321	1	Seating, left hand side
10	135.350.003	1	Support assembly left hand side
11	135.380.001	1	Hopper hinge without safety switch cpl.
12	135.300.411	2	Bolt
13	135.321.000	1	Hopper lower part assembly

135.300.004

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Hopper with infeed scroll cpl., 150 litre
135.300.004

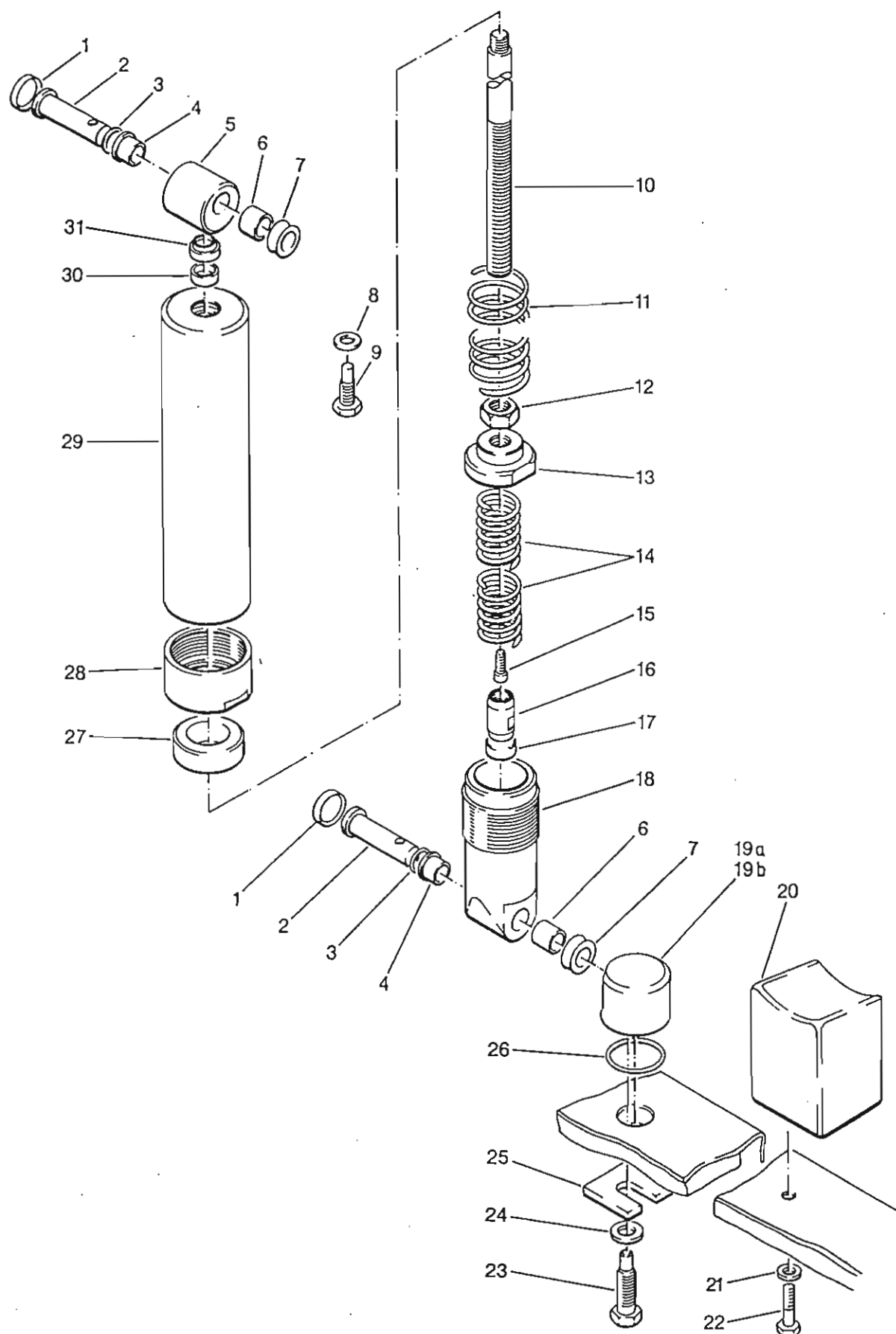
page 3 of 3

Item	Order no.	Quant.	Designation
1	135.391.004	1	Holding-up curve assembly
2	135.390.030	2	Locking handle
3	135.360.001	1	Hopper hinge without safety switch cpl.
4	135.310.251	1	Holder
5	047.705.195	2	Cylindrical pin 5m6x36 DIN 7 V2A
6	061.201.402	0,2m	Plug
7	041.106.065	8	Countersunk screw M6x12 DIN 7991 V2A
8	134.380.130	2	Disc
9	135.300.060	2	Threaded rod
10	135.300.292	2	Shaft
11	135.300.300	2	Sealing ring
12	049.750.258	-	Seeger shim
13	135.311.001	1	Hopper upper part assembly
14	135.310.110	1	Disc
15	064.829.005	2	Roller bearing shim 19,3x25,8x0,3 L+M 1100
16	135.310.150	1	Collar bush
17	041.010.215	1	Cheese-head screw M10x45 DIN 6912 V2A
18	060.303.302	1	Plastic cap
19	060.302.001	1	Plastik cap
20	135.312.000	1	Locking handle cpl. (incl. pos. 19 and 21)
21	135.312.050	1	Sliding ring
22	047.705.065	1	Cylindrical pin 5m6x10 DIN 7 V2A
23	135.310.060	1	Setting bush
24	045.010.065	1	Hexagon nut M10 DIN 934 V2A
25	140.307.000	1	Mirror assembly
26	040.206.055	1	Hexagon head screw M6x10 DIN 933
27	140.302.170	1	Mirror rod
28	135.310.190	1	Bolt
29	061.002.002	1	O-ring seal OR20,3-2,4 kerved
30	140.500.350	1	Cap
31	135.380.001	1	Hopper hinge without safety switch cpl.
32	135.310.241	1	Holder

135.330.002

135.330.003

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Hopper damping cpl., f. 150litre-hopper

135.330.002

Hopper damping cpl., f. 230litre-hopper

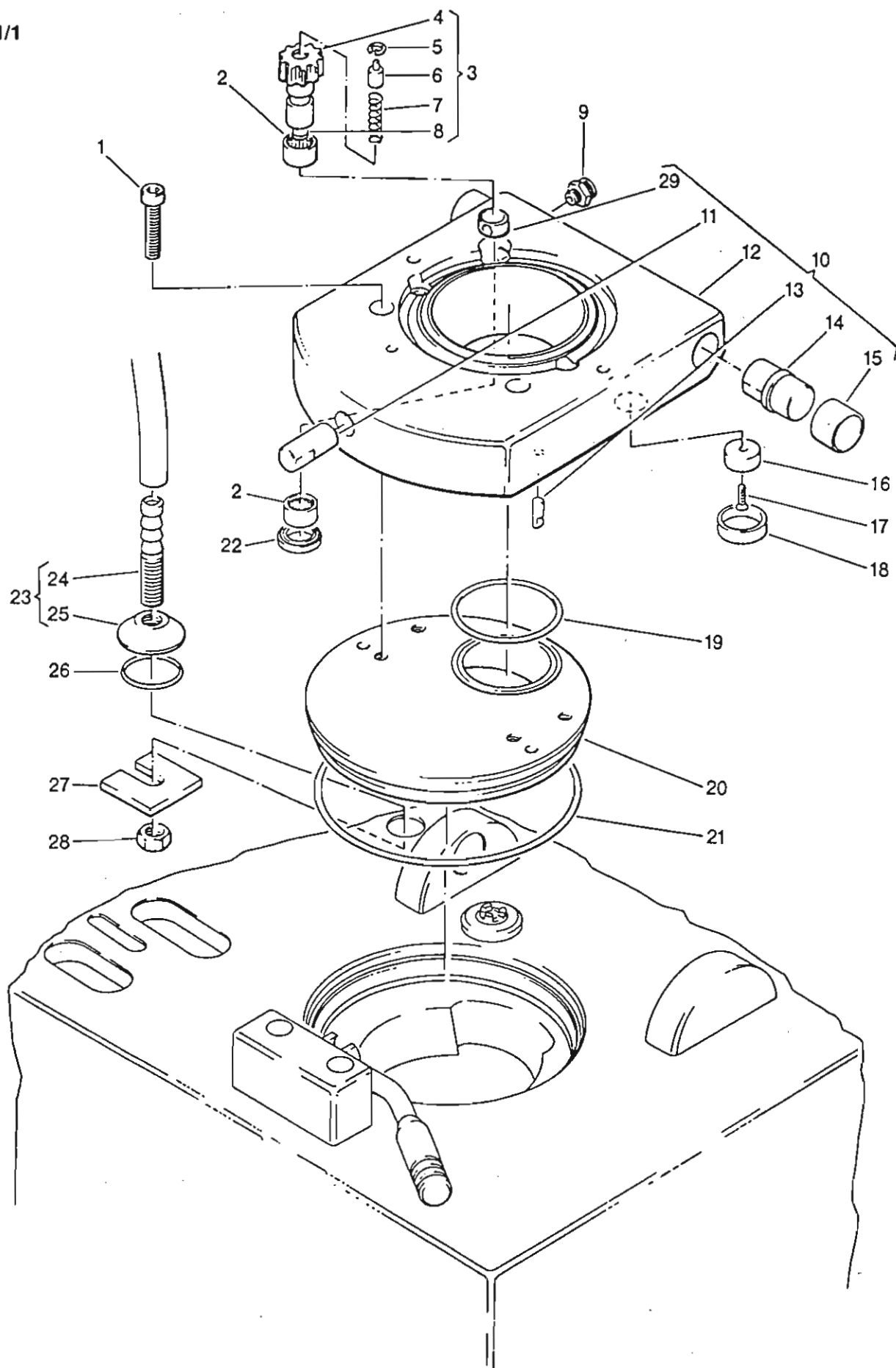
135.330.003

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Item	Order no.	Quant.	Designation
1	060.302.601	2	Cap
2	135.330.210	2	Axle
3	049.750.190	-	Seeger shim
4	064.920.164	2	Permaglide bush PAF 16120 P11
5	135.330.140	1	Rod seating
6	064.920.162	2	DU bushing 1615 DU-B
7	135.330.220	2	Sealing ring
8	046.010.010	1	Washer 10,5 DIN 125 V2A
9	135.330.250	1	Hexagon head screw M10x40 DIN 933 V2A
10	135.330.011	1	Piston rod
11	090.713.501	1	Pressure spring
12	045.016.065	1	Hexagon nut M16 DIN 934 V2A
13	135.330.020	1	Piston
14	090.714.007	2	Pressure spring
15	040.906.115	1	Cheese-head screw M6x20 DIN 912 V2A
16	135.330.080	1	Compensating part
17	135.330.240	1	Stop
18	135.330.160	1	Cylinder lower part
19a	135.330.194	1	Block (for machines without safety switch within hopper hinge)
19b	135.332.000	1	Block assambly (for machines with safety switch within hopper hinge)
*20	135.100.331	1	Hopper stop
21	046.008.010	2	Washer 8,4 DIN 125 V2A
22	040.108.175	2	Hexagon head screw M8x35 DIN 931 V2A
23	135.330.200	1	Hexagon head screw M12x60 DIN 933 V2A
24	046.013.010	1	Washer 13 DIN 125 V2A
25	134.100.450	1	Flat
26	061.003.601	1	O-ring seal OR36,2x3
27			
28	140.320.184	1	Nut
29	135.331.001	1	Cylinder assembly
30	067.050.161	1	Rod guidance ring
31	060.101.603	1	Scraper
			135.330.002 - 150 litre 135.330.003 - 230 litre Identical parts adjustment differential
			for machine with spacing collar: hopper damping 135.330.001
			* for machine with spacing collar: hopper damping 135.100.330

134.340.001

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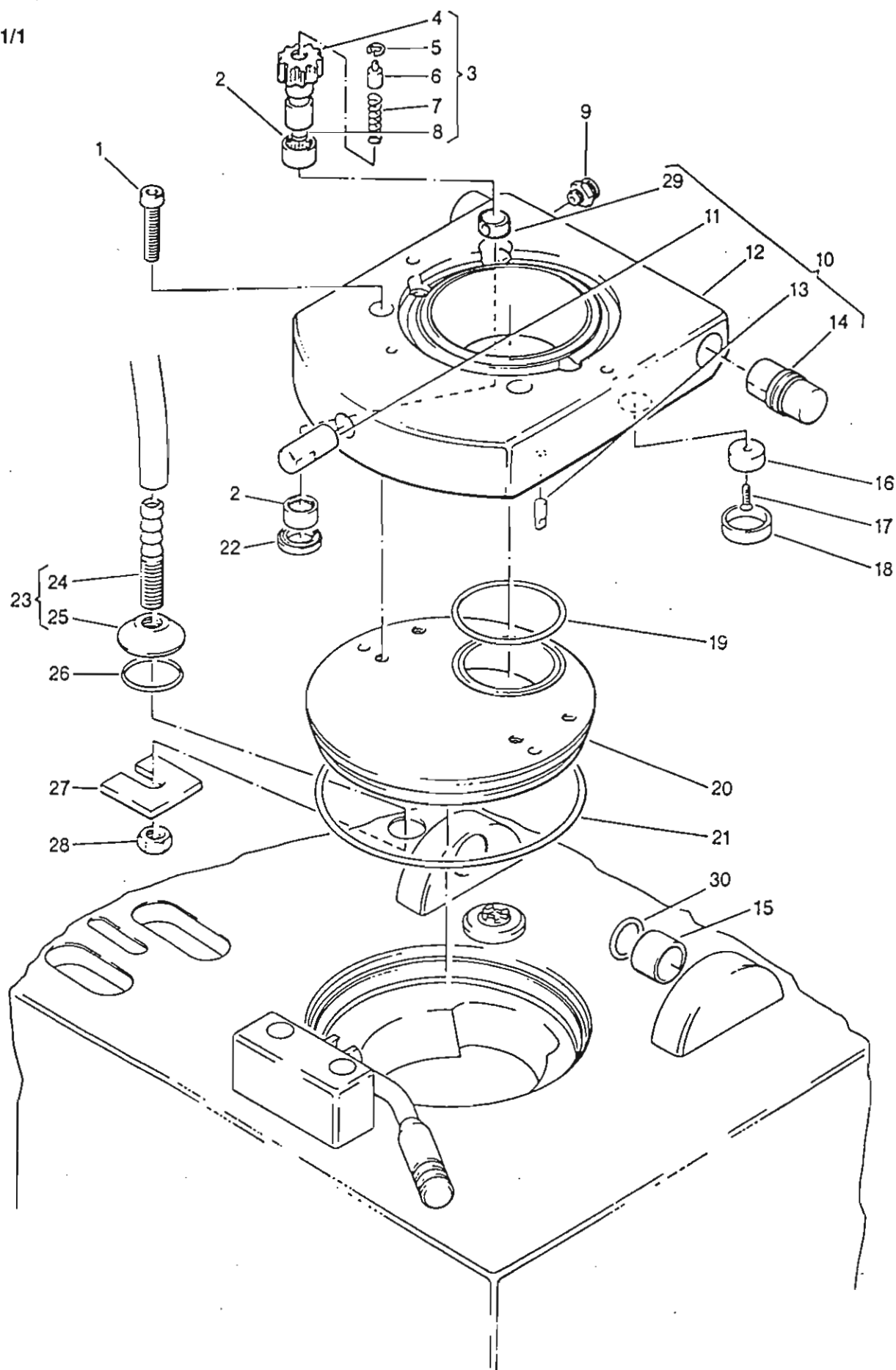
Hinged housing cpl.**134.340.001****(Index a)**

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Item	Order no.	Quant.	Designation
1	040.910.235	4	Cheese-head screw M10x50 DIN 912
2	064.102.061	2	Needle bush
3	134.343.000	1	Pinion cpl.
4	134.343.010	1	Pinion
5	049.730.120	1	Seeger circlip SB12
6	134.343.030	1	Pressure piece
7	090.713.401	1	Pressure spring D-205 DIN 2098
8	060.301.001	1	Plastic cap
9	067.200.105	1	Flat greaser AM10x1 DIN 3404
10	135.341.000	1	Hinged housing assembly (see TI 135.1)
11	134.341.090	1	Bolt
12	135.341.010	1	Plate
13	134.210.050	2	Cylindrical pin 8m6x24 DIN 7
14	134.341.050	2	Bearing bolt
15	064.920.307	2	Permaglide bush
16	071.498.004	1	Switching solenoid
17	041.904.095	1	Countersunk screw M4x16 DIN 963
18	134.340.110	1	Cap
19	061.007.403	1	O-ring seal OR 74-3
20	134.340.030	1	Cover plate
21	061.019.501	1	O-ring seal OR 195-5
22	064.830.006	1	Sealing ring
23	134.170.000	1	Bush assembly
24	134.170.010	1	Hose socket
25	134.170.020	1	Bush
26	061.003.201	1	O-ring seal OR32,2-3
27	134.100.450	1	Flat
28	045.014.065	1	Hexagon head screw
29	135.341.110	1	Bush

134.340.001

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Hinged housing cpl.

134.340.001

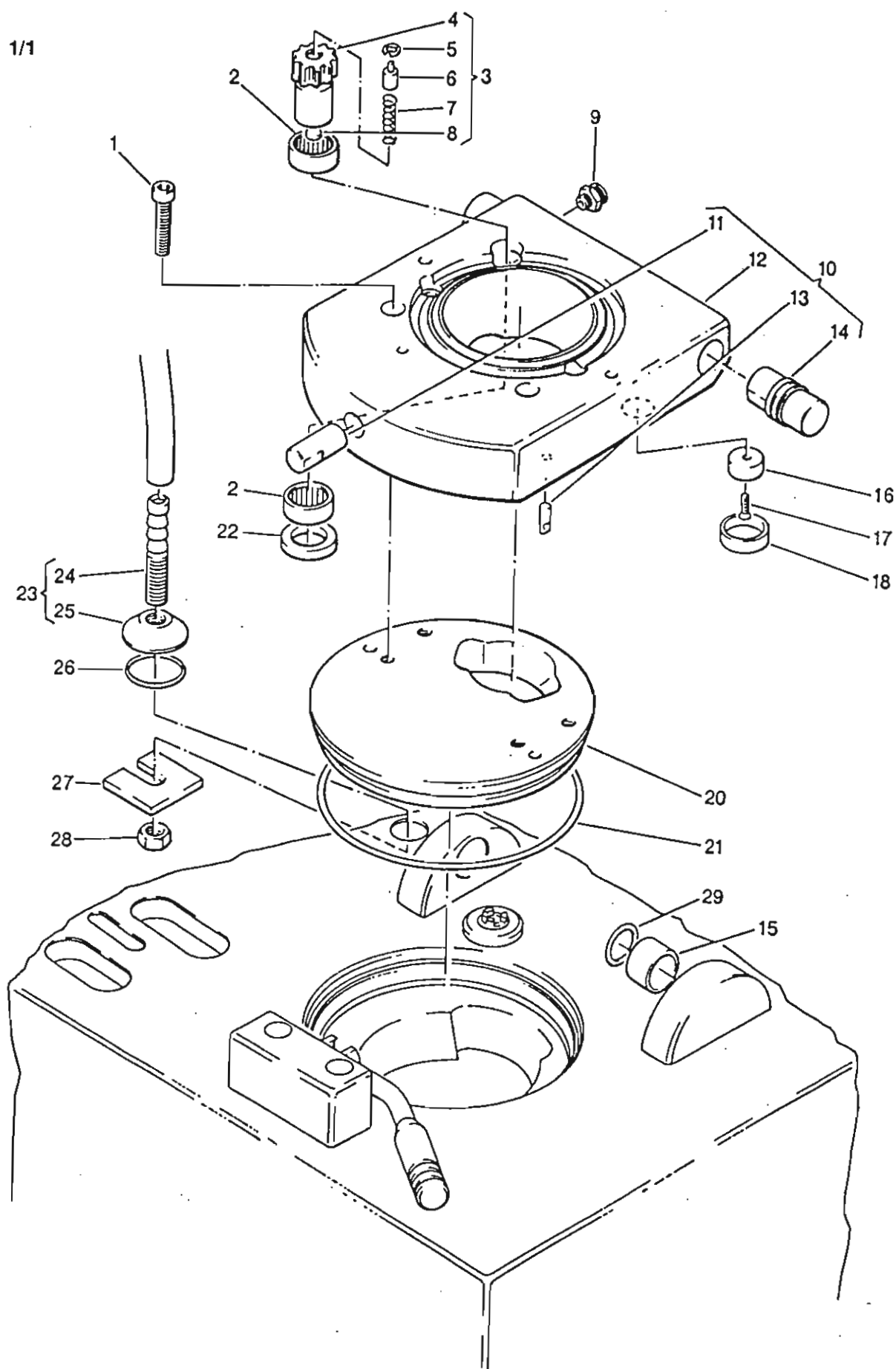
(Index b)

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Item	Order no.	Quant.	Designation
1	040.910.235	4	Cheese-head screw M10x50 DIN 912
2	064.102.061	2	Needle bush
3	134.343.000	1	Pinion cpl.
4	134.343.010	1	Pinion
5	049.730.120	1	Seeger circlip SB12
6	134.343.030	1	Pressure piece
7	090.713.401	1	Pressure spring D-205 DIN 2098
8	060.301.001	1	Plastic cap
9	067.200.105	1	Flat greaser AM10x1 DIN 3404
10	135.341.002	1	Hinged housing assembly (see TI 135.1)
11	134.341.090	1	Bolt
12	135.341.010	1	Plate
13	134.210.050	2	Cylindrical pin 8m6x24 DIN 7
14	134.341.051	2	Bearing bolt
15	064.920.307	2	Permaglide bush
16	071.498.004	1	Switching solenoid
17	041.904.095	1	Countersunk screw M4x16 DIN 963
18	134.340.110	1	Cap
19	061.007.403	1	O-ring seal OR 74-3
20	134.340.030	1	Cover plate
21	061.019.501	1	O-ring seal OR 195-5
22	064.830.006	1	Sealing ring
23	134.170.000	1	Bush assembly
24	134.170.010	1	Hose socket
25	134.170.020	1	Bush
26	061.003.201	1	O-ring seal OR32,2-3
27	134.100.450	1	Flat
28	045.014.065	1	Hexagon head screw
29	135.341.110	1	Bush
30	061.002.803	2	O-ring seal OR28-3

135.340.002

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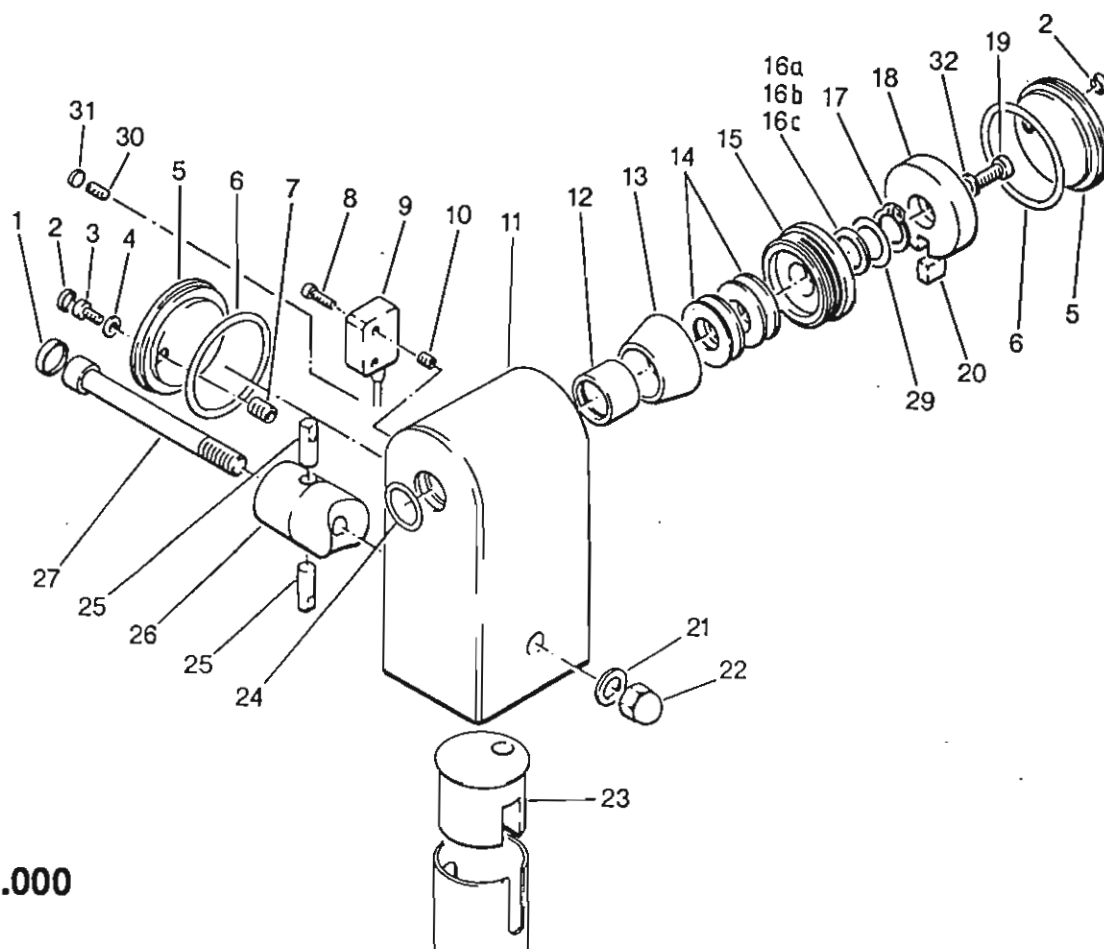
Hinged housing cpl.
135.340.002

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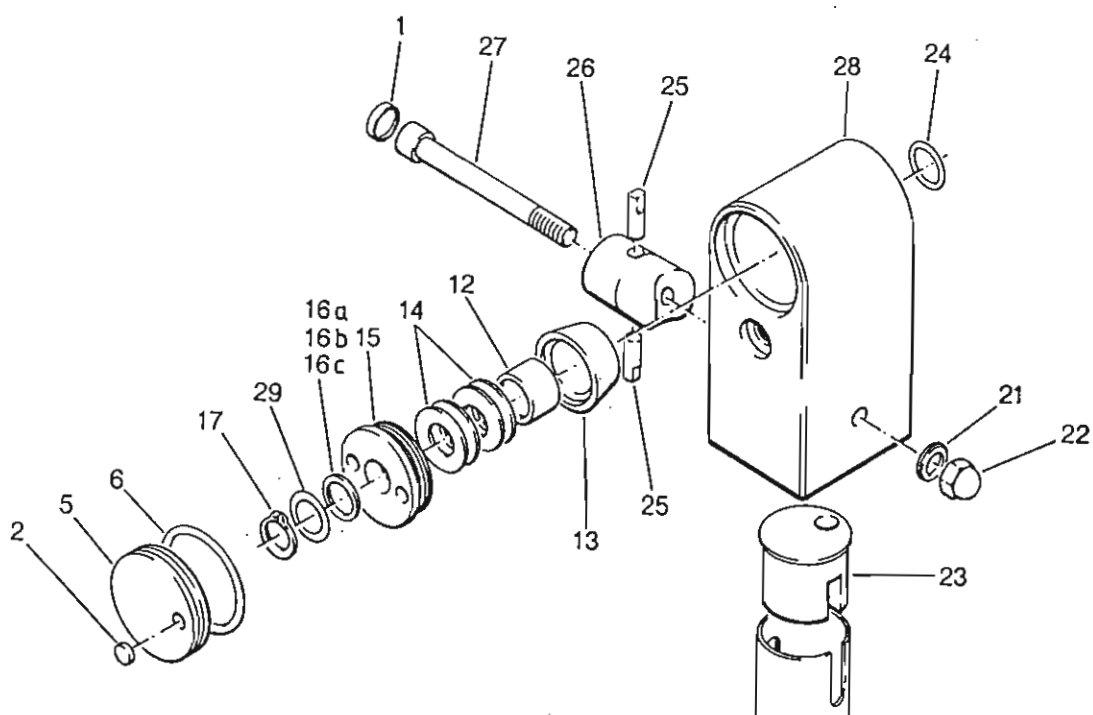
Item	Order no.	Quant.	Designation
1	040.910.235	4	Cheese-head screw M10x50 DIN 912
2	064.102.860	2	Needle bush
3	135.343.001	1	Pinion cpl.
4	135.343.011	1	Pinion
5	049.730.120	1	Seeger circlip SB12
6	134.343.030	1	Pressure piece
7	090.713.401	1	Pressure spring D-205 DIN 2098
8	060.301.001	1	Plastic cap
9	067.200.105	1	Flat greaser AM10x1 DIN 3404
*10	135.341.005	1	Hinged housing assembly (see TI 135.1)
11	134.341.090	1	Bolt
12	135.341.014	1	Plate
13	134.210.050	2	Cylindrical pin 8m6x24 DIN 7
14	134.341.051	2	Bearing bolt
15	064.920.307	2	Permaglide bush
16	071.498.004	1	Switching solenoid
17	041.904.095	1	Countersunk screw M4x16 DIN 963
18	134.340.110	1	Cap
*19	061.007.403	1	O-ring seal OR 74-3 (see page 9.2)
*20	134.340.031	1	Cover plate
21	061.019.501	1	O-ring seal OR 195-5
22	064.830.008	1	Sealing ring
23	134.170.000	1	Bush assembly
24	134.170.010	1	Hose socket
25	134.170.020	1	Bush
26	061.003.201	1	O-ring seal OR32,2-3
27	134.100.450	1	Flat
28	045.014.065	1	Hexagon head screw
29	061.002.803	2	O-ring seal OR28-3
			*valid starting from machine no. 135.0193
			<u>f. hinged housing cpl. 135.340.001:</u>
			Pos. 10 135.341.004
			Pos. 19 061.007.403
			Pos. 20 134.340.030

135.360.000

1/1



135.380.000



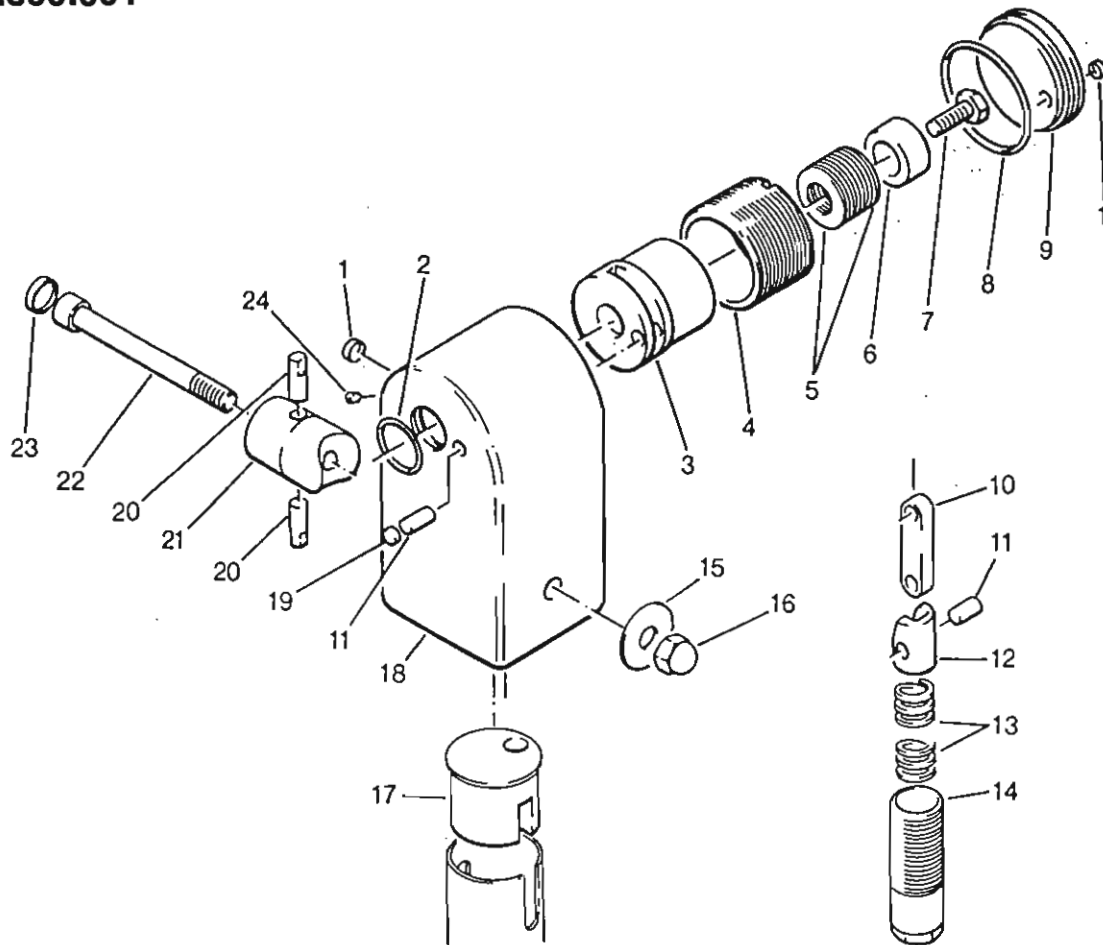
Hopper hinge without safety switch cpl.
135.360.000
Hopper hinge without safety switch cpl.
135.380.000

page 1 of 1

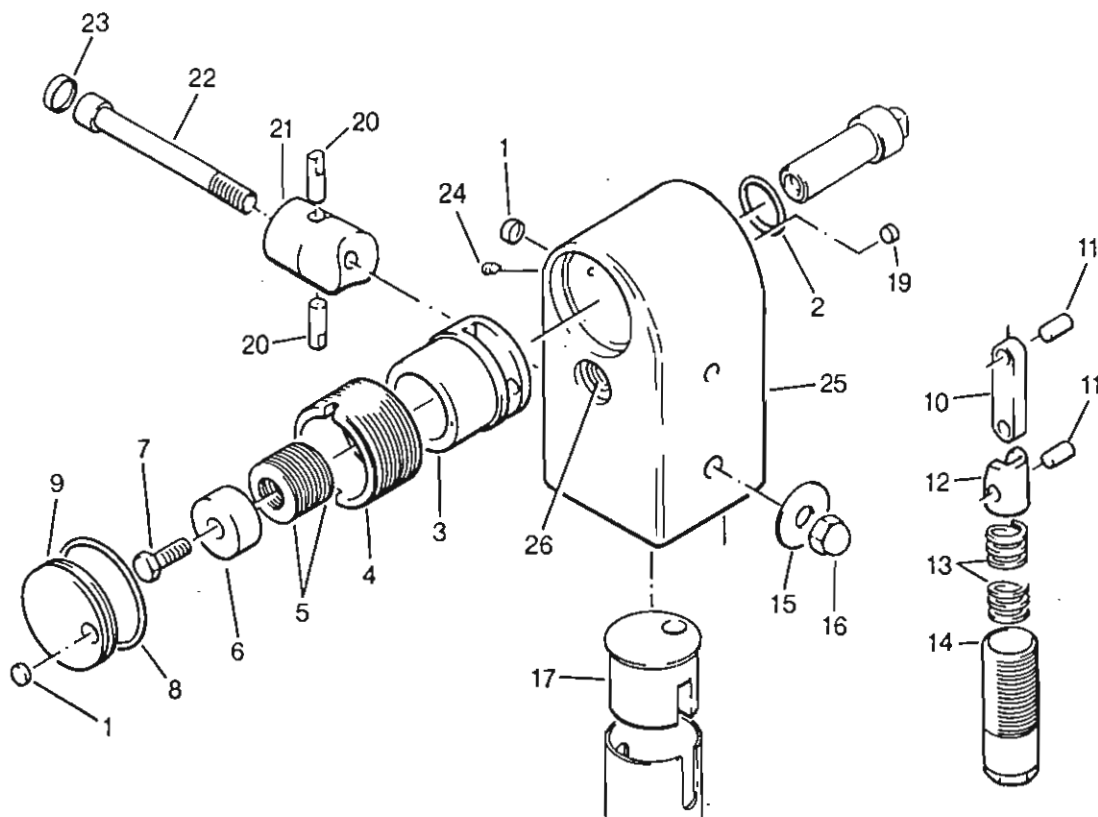
Item	Order no.	Quant.	Designation
1	060.302.001	2	Plastic cap ø 20
2	060.301.101	3	Plastic cap
3	041.005.055	1	Cheese-head screw M5x10 DIN 6912 V2A
4	046.005.010	1	Washer 5,3 DIN 125 V2A
5	135.360.020	3	Cover
6	061.006.002	3	O-ring seal OR60,2-3
7	049.830.051	1	Threaded insert M5
*8	040.904.095	(2)	Cheese-head screw M4x16 DIN 912 V2A
*9	135.870.901	(1)	Safety switch hopper
*10	049.830.041	(2)	Threaded insert M4
11	135.360.010	1	Housing
12	091.113.401	2	Sleeve free-wheel
13	134.380.040	2	Taper
14	066.804.004	8	Cup spring A40 DIN 2093
15	135.360.050	2	Nut
16a	135.360.060	2	Spacing disc (1 mm)
16b	135.360.061	-	Spacing disc (0,6 mm)
16c	135.360.062	-	Spacing disc (0,8 mm)
17	049.310.205	2	Seeger-ring A20x1,2 DIN 471
*18	135.360.070	(1)	Washer
*19	040.906.115	(1)	Cheese-head screw M6x20 DIN 912 V2A
*20	071.405.056	(1)	Solenoid magnet
21	046.113.015	2	Washer A13 DIN 9021 V2A
22	045.312.065	2	Cap nut M12 DIN 1587 V2A
23	135.360.120	2	Tensioner block
24	061.002.503	2	O-ring seal OR25,2-3
25	135.360.160	4	Cylindrical pin
26	135.360.090	2	Tensioner
27	040.912.355	2	Cheese-head screw M12x110 DIN 912 V2A
28	135.380.010	1	Housing
29	049.750.207	2	Seeger-shim PS 20x28x0,5 DIN
30	044.106.055	1	Threaded pin M6x10 DIN 914
31	060.301.001	1	Plastic cap
*32	046.006.010	(1)	Washer 6,4 DIN 125
			* Pos. could be omitted if a safety switch is installed on the foot board

135.360.001

1/1



135.380.001



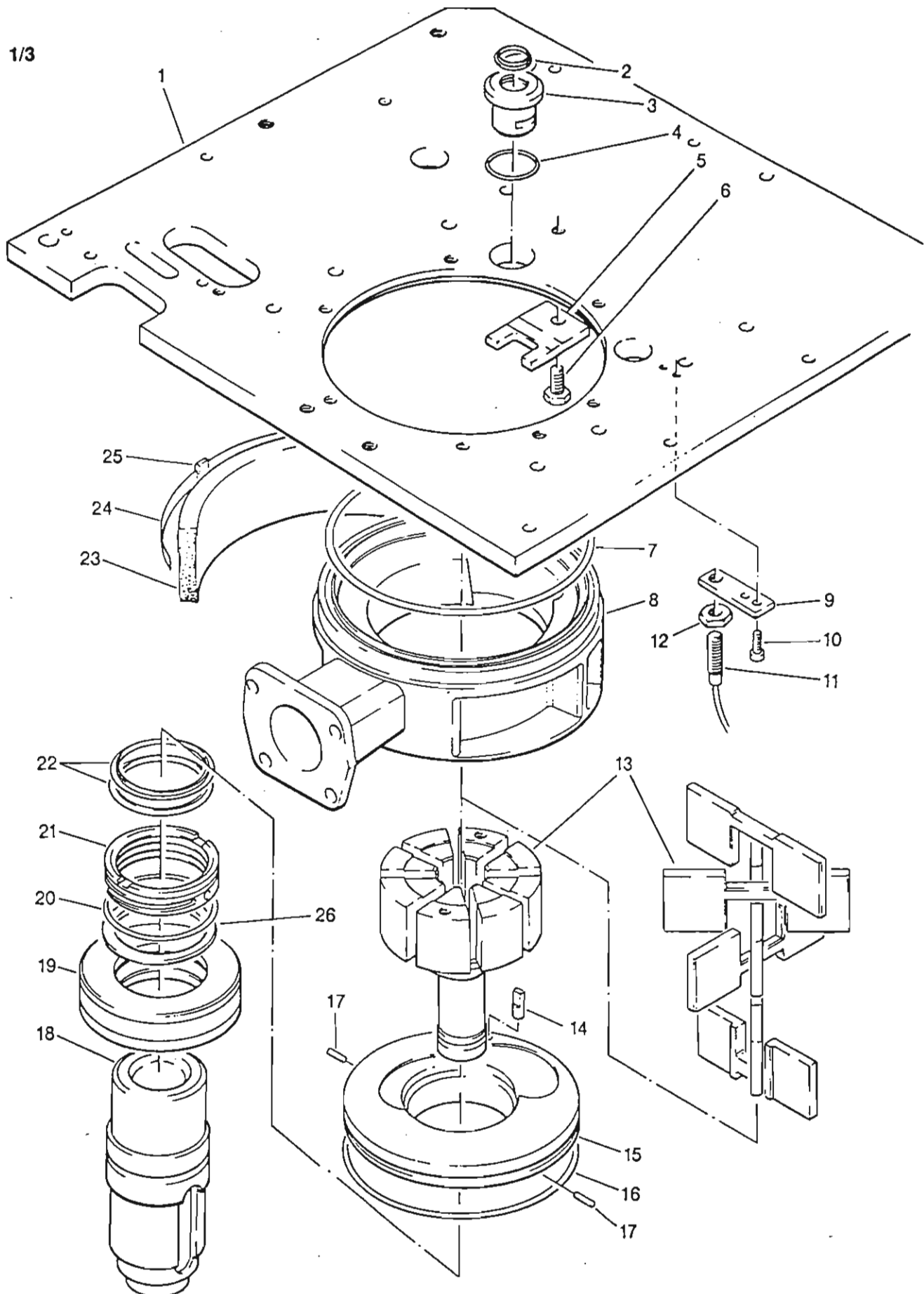
Hopper hinge without safety switch cpl.
135.360.001
Hopper hinge without safety switch cpl.
135.380.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	060.301.101	4	Plastic cap ø 11
2	061.002.503	2	O-ring seal OR25,2-3
3	135.360.040	2	Lug
4	135.360.030	2	Threaded insert
5	066.803.701	50	Washer
6	135.360.080	2	Collar bush
7	040.208.133	2	Hexagonal screw M8x25 DIN 933 V2A
8	061.006.002	2	O-ring seal OR60,2-3
9	135.360.020	2	Cover
10	134.380.160	2	Pressure bracket
11	047.708.105	4	Cylindrical pin 8m6x16 DIN 7 V2A
12	135.380.060	2	Piston
13	090.713.503	4	Pressure spring
14	135.380.050	2	Setting bush
15	046.113.015	2	Washer A13 DIN 9021 V2A
16	045.312.065	2	Cap nut M12 DIN 1587 V2A
17	135.360.120	2	Tensioner block
18	135.360.011	1	Housing
19	060.300.801	2	Plastic cap
20	135.360.160	4	Cylindrical pin 10m6x24 DIN 7 V2A
21	135.360.090	2	Tensioner
22	040.912.375	1	Cheese-head screw M12x120 DIN 912 V2A
23	060.302.001	2	Plastic cap
24	044.106.040	2	Threaded pin M6x8 DIN 914
25	135.380.011	1	Housing
26	049.830.121	1	Ensaf-bush

135.400.001

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Gear cpl.

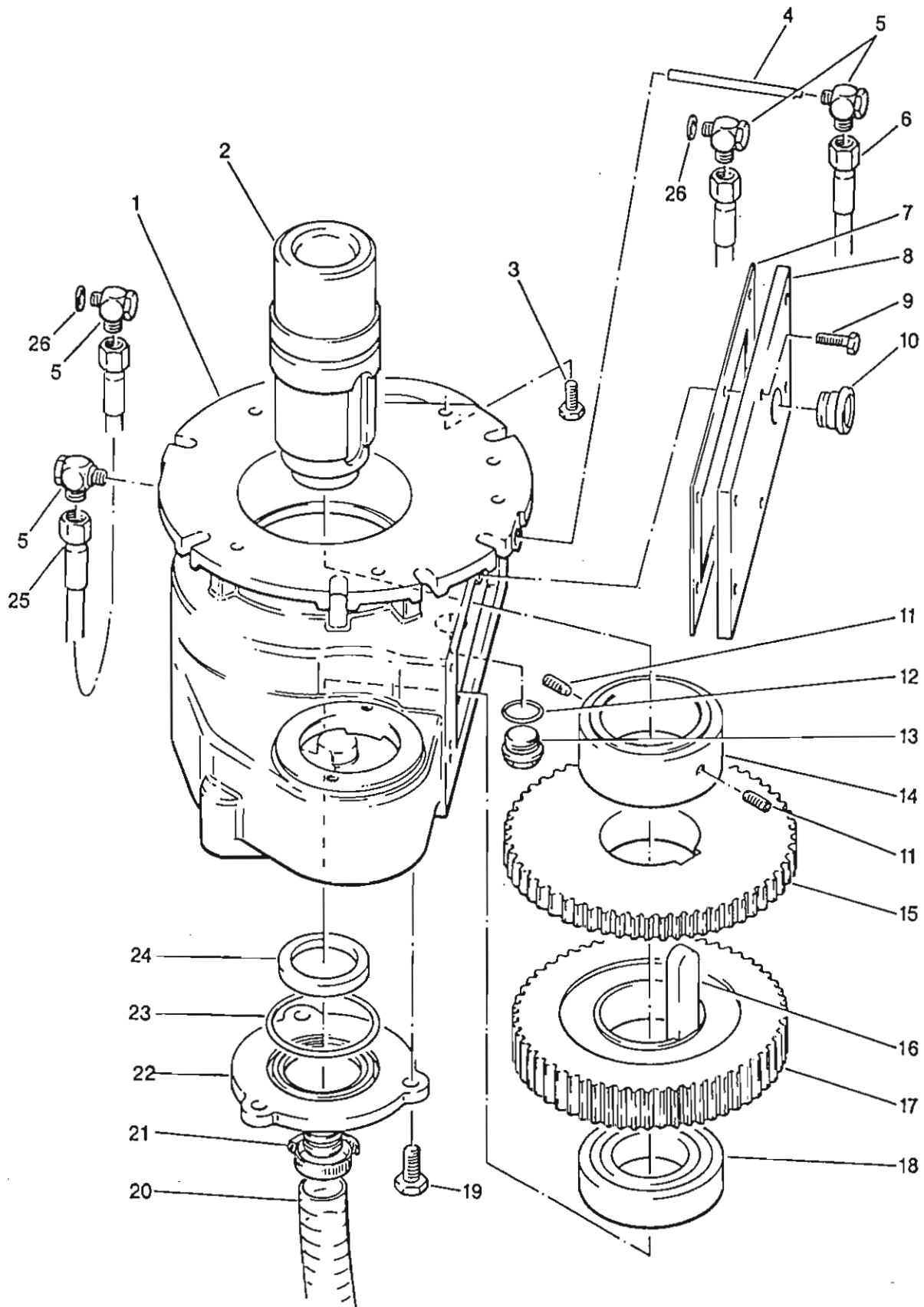
135.400.001

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	061.702.001	1	Sealing ring
3	134.200.190	1	Bush
4	061.003.704	1	O-ring seal OR 37-2
5	134.200.200	1	Tensioner
6	040.210.115	1	Hexagonal head screw M10x20 DIN 933
7	134.100.540	1	Hose ring
8	134.200.021	1	Housing (on replacement 134.200.022)
*9	134.200.211	1	Switch seat
10	040.906.115	2	Cheese head screw M6x20 DIN 912
*11	071.405.050	1	Machine protective switch
*12	045.010.085	1	Hexagonal nut M10x1 DIN 934
13	134.230.000	-	Parts of feeding mechanism
14	134.210.050	1	Cylindrical pin
15	134.220.010	1	Base plate
16	061.017.401	1	O-ring seal OR 174-3
17	047.705.125	2	Cylindrical pin 5m6x20
18	135.400.020	1	Main shaft
19	063.422.146	1	Roller bearingNU2214E
20	061.008.503	1	O-ring seal OR85-2,5
21	134.200.120	1	Sealing seating
22	061.707.001	2	Sealing ring
23	134.100.580	1	Insulation for feed element
24	096.012.803	0,97m	Fastening strap
25	096.012.804	1	Buckle
26	135.400.300	1	Spacing collar
* Pos. 9;11;12 belongs to 135.870.801			

135.400.001

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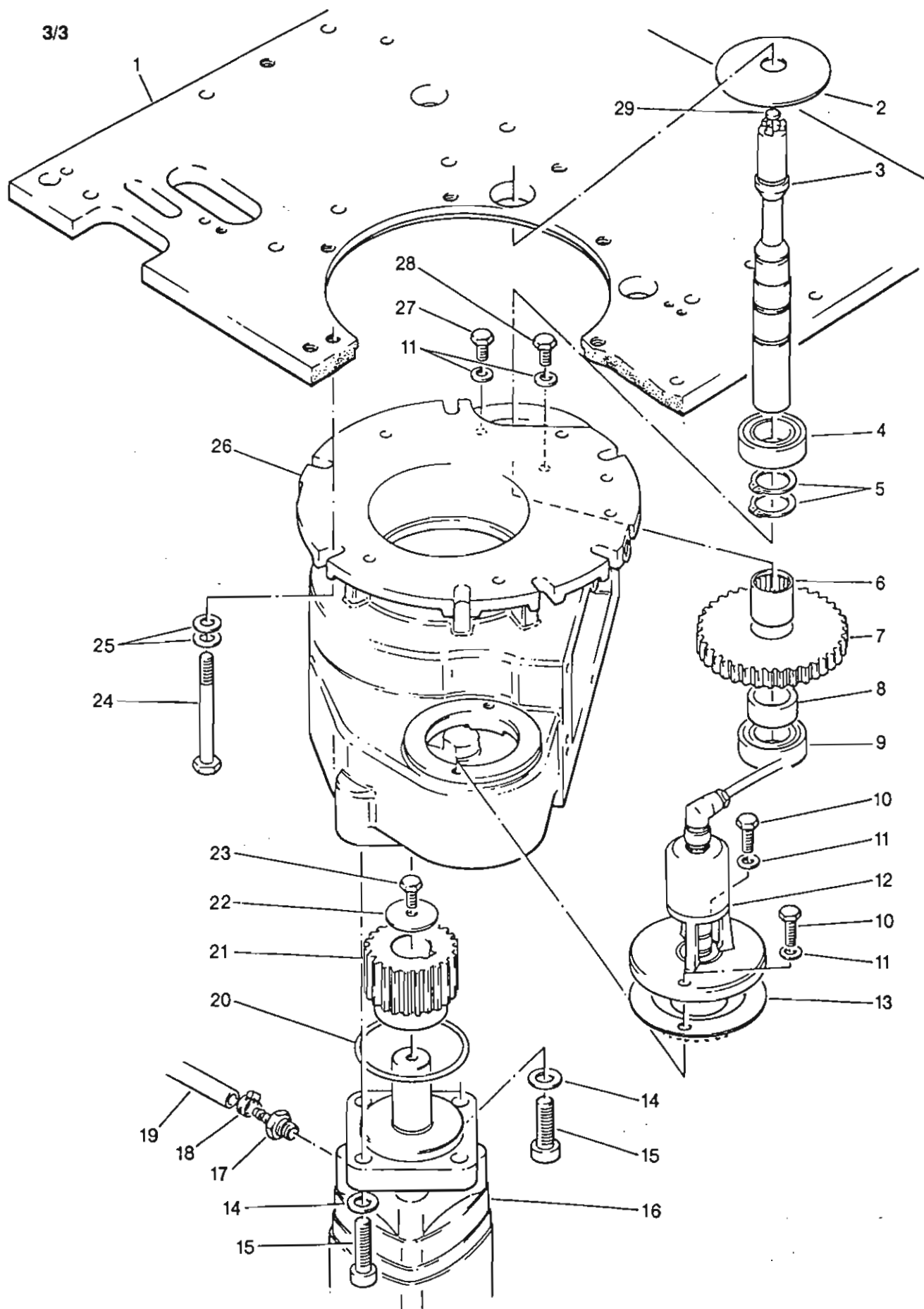
Gear cpl.
135.400.001

page 2 of 3

Item	Order no.	Quant.	Designation
1	134.410.000	1	Gear housing assembly
2	135.400.020	1	Main shaft
3	040.208.117	5	Hexagon head screw M8x20 DIN 933
4	134.200.110	1	Tube
5	067.860.606	4	Pivoting joint
6	134.200.150	1	Pressure hose
7	134.400.100	1	Cover seal
8	135.400.090	1	Gearbox cover
9	040.208.133	6	Hexagon head screw M8x25 DIN 933
10	067.150.221	1	Oil-gauge level glass
11	044.108.110	2	Threaded pin M8x20 DIN 914
12	061.502.203	1	Sealing ring A22x27x1,5
13	043.022.260	1	Oil drain plug AM22x1,5 DIN7604
14	134.400.070	1	Bush
15	135.400.140	1	Gear Z=87
16	049.020.181	1	Key B20x12x63 DIN 6885
17	134.400.030	1	Gear Z=76
18	063.062.122	1	Grooved ball bearing 6212-Z
19	040.210.135	3	Hexagon head screw M10x25 DIN 933
20	067.420.251	1m	Plastic hose
21	067.710.322	2	Hose clamp
22	134.420.000	1	Flange
23	061.007.501	1	O-ring seal OR75-3
24	061.105.009	1	Rotary seal shaft UES-1
25	134.200.160	1	Pressure hose
26	046.010.010	2	Washer 10,5

135.400.001

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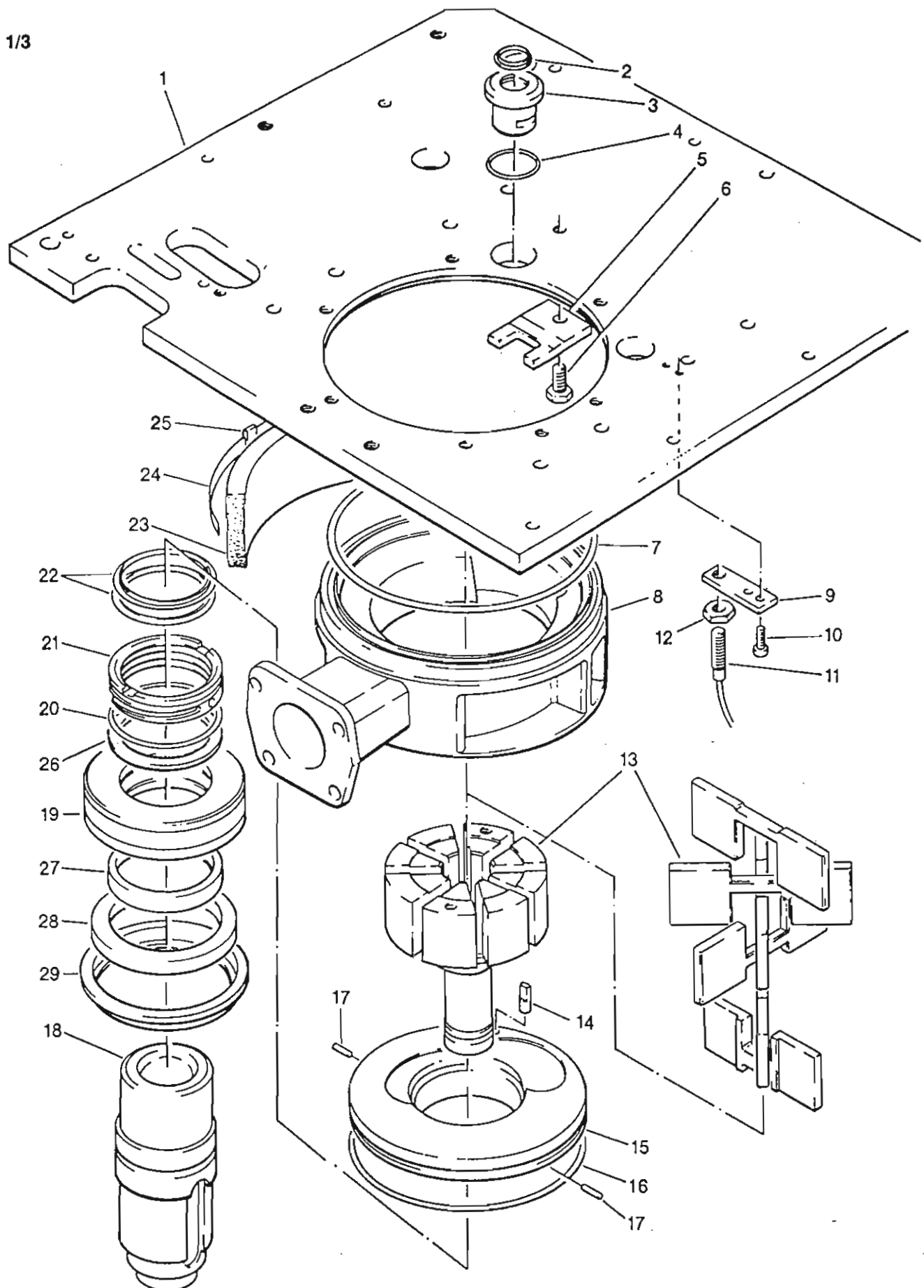
Gear cpl.**135.400.001**

page 3 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	134.400.110	1	Splashproof protection
3	135.400.060	1	Shaft
4	063.062.055	1	Grooved ball bearing 6205-2RS
5	049.310.250	2	Circlip A25x1,2 DIN 471
6	091.113.402	1	Sleeve free-wheel
7	135.400.040	1	Gear Z=36
8	135.400.160	1	Spacing collar
9	063.062.051	1	Grooved ball bearing 6205
10	040.208.135	2	Hexagonal head screw M8x25 DIN 933
11	046.008.010	4	Washer 8,4 DIN 125
12	134.430.000	1	Impulse transmitter cpl.
13	134.400.120	1	Seal
14	046.013.010	4	Washer 13 DIN 125
15	040.912.195	4	Cheese head screw M12x40 DIN 912
16	090.314.001	1	Fluid motor
17	067.690.061	1	Screw neck SAG6/R1/4"
18	067.700.141	1	Hose clamp S14/9ZY
19	067.450.062	1	Low-pressure hydraulic hose
20	061.008.202	1	O-ring seal OR82-3
21	134.400.050	1	gear Z=27
22	134.400.080	1	Disk
23	040.208.090	1	Hexagon head screw M8x16 DIN 933
24	040.110.337	7	Hexagon head screw M10x100 DIN 931
25	046.010.010	14	Washer 10,5 DIN 125
26	134.410.000	1	Gear box assembly
27	040.208.095	1	Hexagon head screw M8x16 DIN 933
28	134.400.130	1	Hexagon head screw
29	060.301.001	1	Plastic cap

135.400.002

1/3



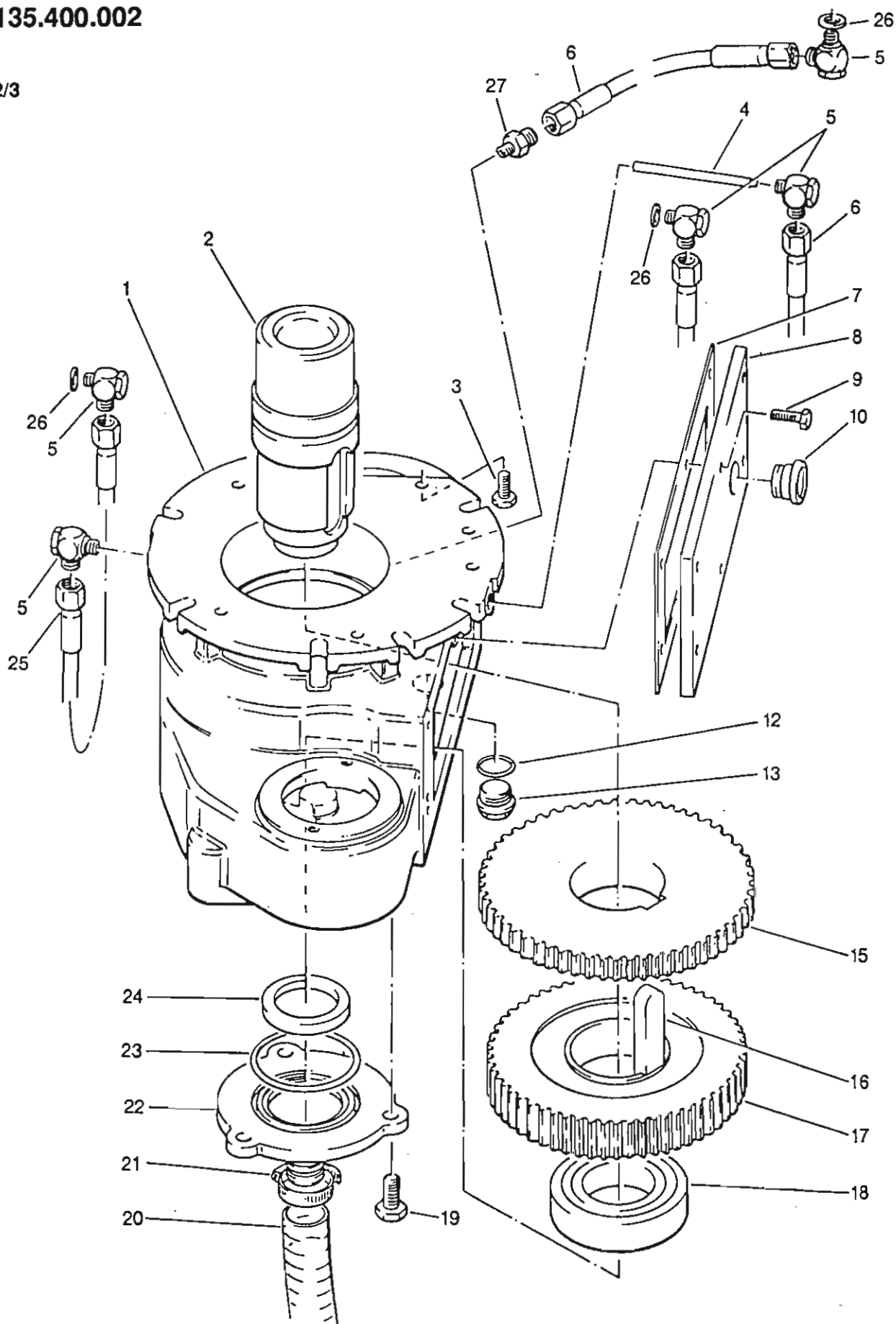
Gear cpl.
135.400.002

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	061.702.801	1	Sealing ring
3	135.400.190	1	Bush
4	061.003.704	1	O-ring seal OR 37-2
5	134.200.200	1	Tensioner
6	040.210.115	1	Hexagonal head screw M10x20 DIN 933
7	134.100.540	1	Hose ring
8	134.200.021	1	Housing (on replacement 134.200.022)
*9	134.200.211	1	Switch seat
10	040.906.115	2	Cheese head screw M6x20 DIN 912
*11	071.405.050	1	Machine protective switch
*12	045.010.085	1	Hexagonal nut M10x1 DIN 934
13	134.230.000	-	Parts of feeding mechanism
14	134.210.050	1	Cylindrical pin
15	134.220.010	1	Base plate
16	061.017.401	1	O-ring seal OR 174-3
17	047.705.125	2	Cylindrical pin 5m6x20
18	135.400.020	1	Main shaft
19	063.422.146	1	Roller bearing NU2214E
20	061.008.503	1	O-ring seal OR85-2,5
21	134.200.120	1	Sealing seating
22	061.707.001	2	Sealing ring
23	134.100.580	1	Insulation for feed element
24	096.012.803	0,97m	Fastening strap
25	096.012.804	1	Buckle
26	135.400.300	1	Spacing collar
27	135.400.470	1	Bush
28	061.108.501	1	Rotary shaft seal
29	135.400.350	1	Sealing seating
* Pos. 9;11;12 belongs to 135.870.801			

135.400.002

2/3



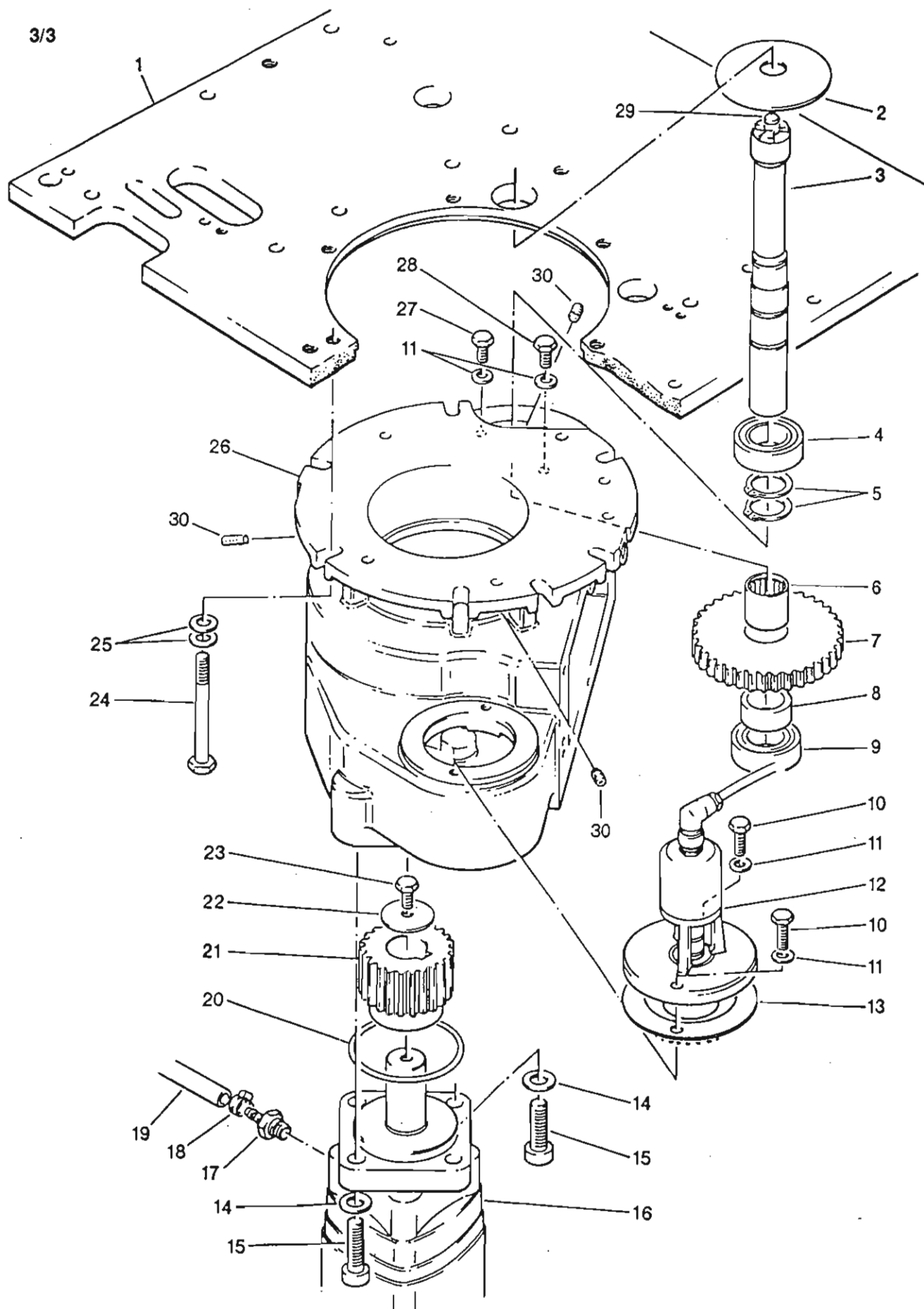
Gear cpl.
135.400.002

page 2 of 3

Item	Order no.	Quant.	Designation
1	134.410.000	1	Gear housing assembly
2	135.400.020	1	Main shaft
3	040.208.117	5	Hexagon head screw M8x20 DIN 933
4	134.200.110	1	Tube
5	067.860.606	5	Pivoting joint
6	134.200.150	2	Pressure hose, inlet
7	134.400.100	1	Cover seal
8	135.400.090	1	Gearbox cover
9	040.208.133	6	Hexagon head screw M8x25 DIN 933
10	067.150.221	1	Oil-gauge level glass
11			
12	061.502.203	1	Sealing ring A22x27x1,5
13	043.022.260	1	Oil drain plug AM22x1,5 DIN7604
14			
15	135.400.140	1	Gear Z=87
16	049.020.181	1	Key B20x12x63 DIN 6885
17	134.400.030	1	Gear Z=76
18	063.062.122	1	Grooved ball bearing 6212-Z
19	040.210.135	3	Hexagon head screw M10x25 DIN 933
20	067.420.251	1m	Plastic hose
21	067.710.322	2	Hose clamp
22	134.420.000	1	Flange
23	061.007.501	1	O-ring seal OR75-3
24	061.105.009	1	Rotary shaft seal UES-1
25	134.200.160	1	Pressure hose, return
26	046.010.010	3	Washer 10,5
27	067.810.613	1	Threaded straight joint

135.400.002

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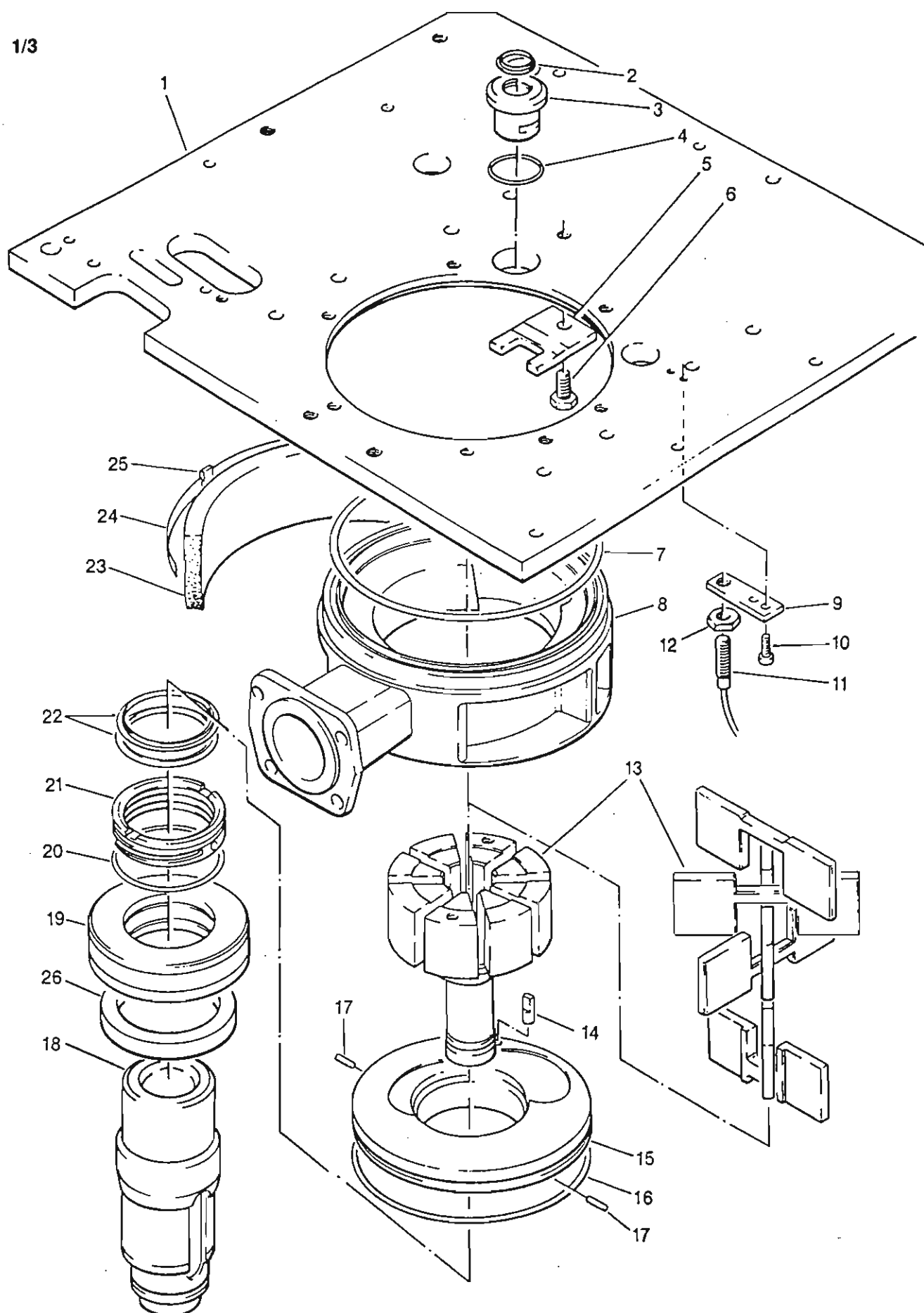
Gear cpl.
135.400.002

page 3 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	134.400.110	1	Splashproof protection
3	135.400.061	1	Shaft
4	063.062.055	1	Grooved ball bearing 6205-2RS
5	049.310.250	2	Circlip A25x1,2 DIN 471
6	091.113.402	1	Sleeve free-wheel
7	135.400.040	1	Gear Z=36
8	135.400.160	1	Spacing collar
9	063.062.051	1	Grooved ball bearing 6205
10	040.208.135	2	Hexagonal head screw M8x25 DIN 933
11	046.008.010	4	Washer 8,4 DIN 125
12	134.430.000	1	Impulse transmitter cpl.
13	134.400.120	1	Seal
14	046.013.010	4	Washer 13 DIN 125
15	040.912.195	4	Cheese head screw M12x40 DIN 912
16	090.314.001	1	Fluid motor
17	067.690.061	1	Screw neck SAG6/R1/4"
18	067.700.141	1	Hose clamp S14/9ZY
19	067.450.062	1	Low-pressure hydraulic hose
20	061.008.202	1	O-ring seal OR82-3
21	134.400.050	1	gear Z=27
22	134.400.080	1	Disk
23	040.208.090	1	Hexagon head screw M8x16 DIN 933
24	040.110.337	7	Hexagon head screw M10x100 DIN 931
25	046.010.010	14	Washer 10,5 DIN 125
26	134.410.000	1	Gear box assembly
27	040.208.095	1	Hexagon head screw M8x16 DIN 933
28	134.400.130	1	Hexagon head screw
29	060.301.001	1	Plastic cap
*30	044.208.095	3	Threaded pin M8x16 DIN 915
			* starting from machine no. 135.0222

135.400.003

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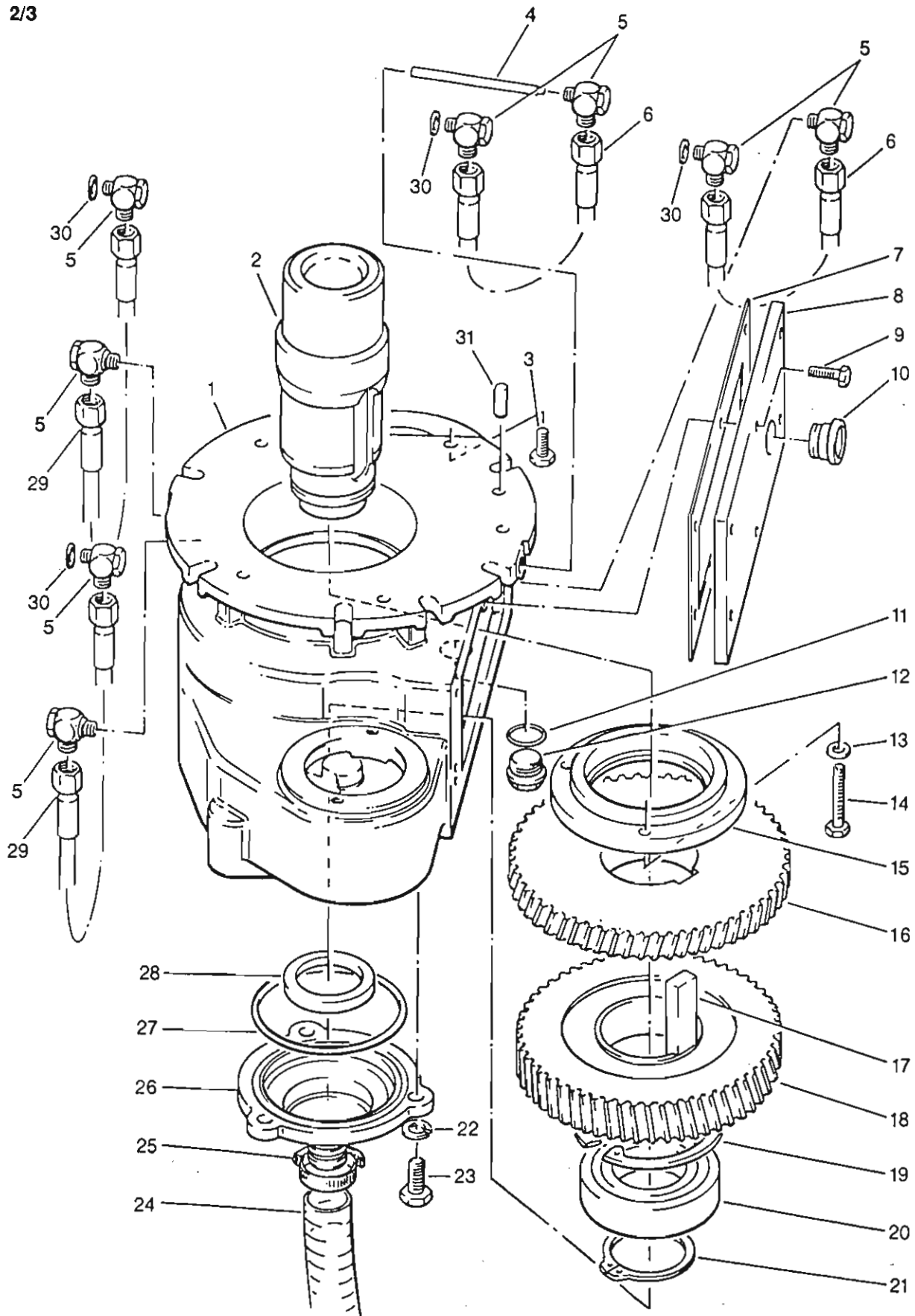
Gear cpl.
135.400.003

page 1 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	061.702.801	1	Sealing ring
3	135.400.190	1	Bush
4	061.003.704	1	O-ring seal OR 37-2
5	134.200.200	1	Tensioner
6	040.210.115	1	Hexagonal head screw M10x20 DIN 933
7	134.100.540	1	Hose ring
8	134.200.022	1	Housing assembly
*9	134.200.211	1	Switch seat
10	040.906.115	2	Cheese head screw M6x20 DIN 912
*11	071.405.050	1	Machine protective switch
*12	045.010.085	1	Hexagonal nut M10x1 DIN 934
13	134.230.000	-	Parts of feeding mechanism
14	134.210.050	1	Cylindrical pin
15	134.220.010	1	Base plate
16	061.017.401	1	O-ring seal OR 174-3
17	047.705.125	2	Cylindrical pin 5m6x20
18	135.400.021	1	Main shaft
19	063.422.146	1	Cylindrical roller bearing NU2214E
20	061.008.503	1	O-ring seal OR85-2,5
21	134.200.120	1	Sealing seating
22	061.707.001	2	Sealing ring
23	134.100.580	1	Insulation for feed element
24	096.012.803	0,97m	Fastening strap
25	096.012.804	1	Buckle
26	061.108.201	1	Rotary shaft seal 82x105x13 B2
* Pos. 9;11;12 belongs to 135.870.801			

135.400.003

2/3



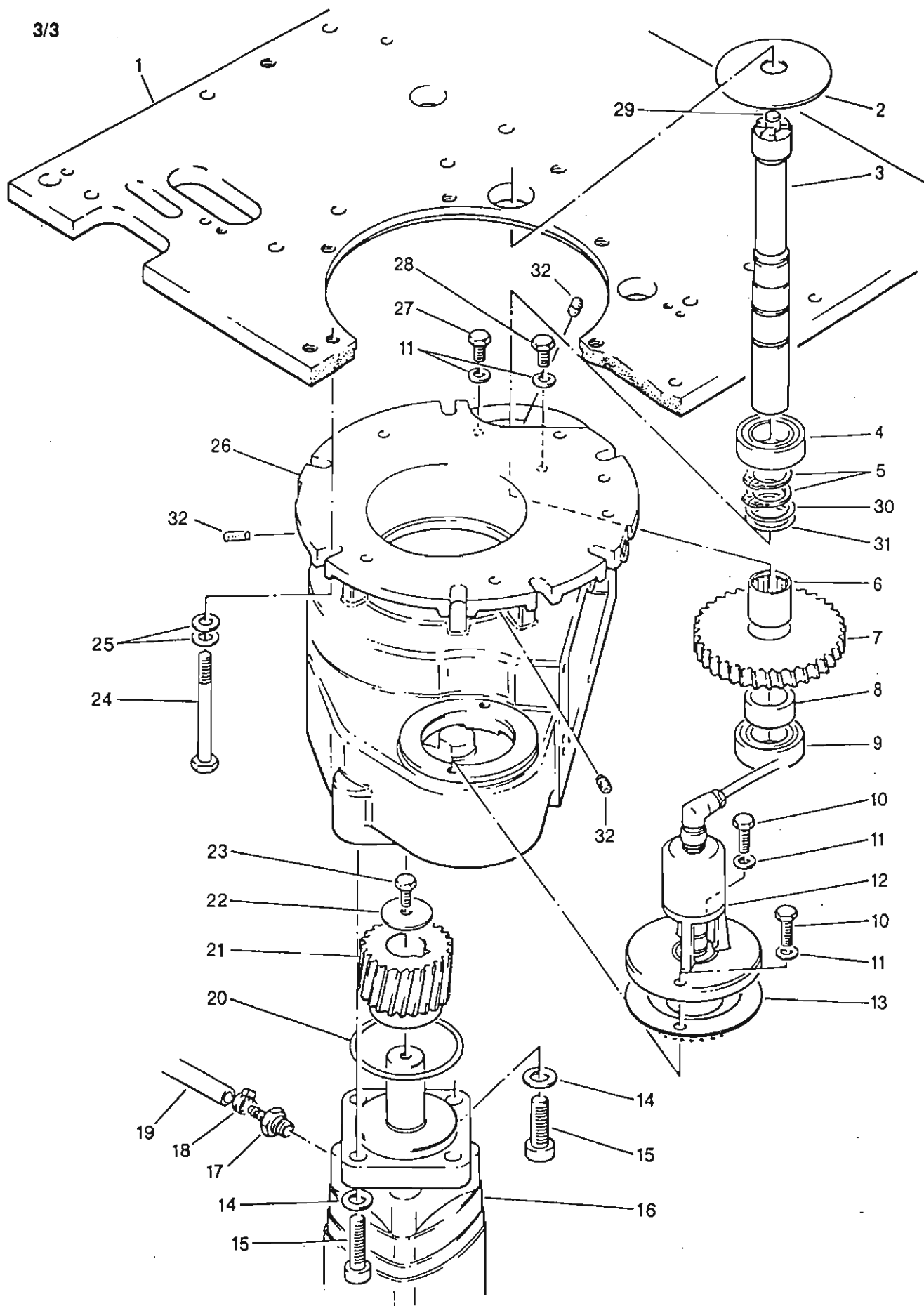
Gear cpl.
135.400.003

page 2 of 3

Item	Order no.	Quant.	Designation
1	134.410.001	1	Gear housing assembly
2	135.400.021	1	Main shaft
3	040.208.117	5	Hexagon head screw M8x20 DIN 933
4	134.200.110	1	Tube
5	067.860.606	8	Pivoting joint
6	134.200.150	2	Pressure hose, inlet
7	134.400.100	1	Cover seal
8	135.400.090	1	Gearbox cover
9	040.208.133	6	Hexagon head screw M8x25 DIN 933
10	067.150.221	1	Oil-gauge level glass
11	061.502.203	1	Sealing ring A22x27x1,5
12	043.022.260	1	Oil drain plug AM22x1,5 DIN7604
13	046.005.010	3	Washer 5,3 DIN 125
14	040.205.235	3	Hexagon head screw M5x50 DIN 933
15	135.400.600	1	Sealing seating
16	135.400.141	1	Gear Z=85
17	135.400.230	1	Key B20x12x63 DIN 6885
18	134.400.031	1	Gear Z=75
19	049.321.100	1	Circlip 110x4 DIN 472
20	063.062.122	1	Grooved ball bearing 6212-Z
21	049.310.600	1	Circlip 60x2 DIN 471
22	046.510.021	3	Spring washer B10 DIN 127
23	040.210.135	3	Hexagon head screw M10x25 DIN 933
24	067.420.251	1m	Plastic spiral hose
25	067.710.322	2	Hose clamp
26	134.420.001	1	Flange
27	061.010.801	1	O-ring seal OR103-3
28	061.105.009	1	Rotary shaft seal UES-1
29	134.200.160	2	Pressure hose, return
30	046.010.010	4	Washer 10,5
31	047.708.145	1	Cylindrical pin 8m6x24 DIN 7

135.400.003

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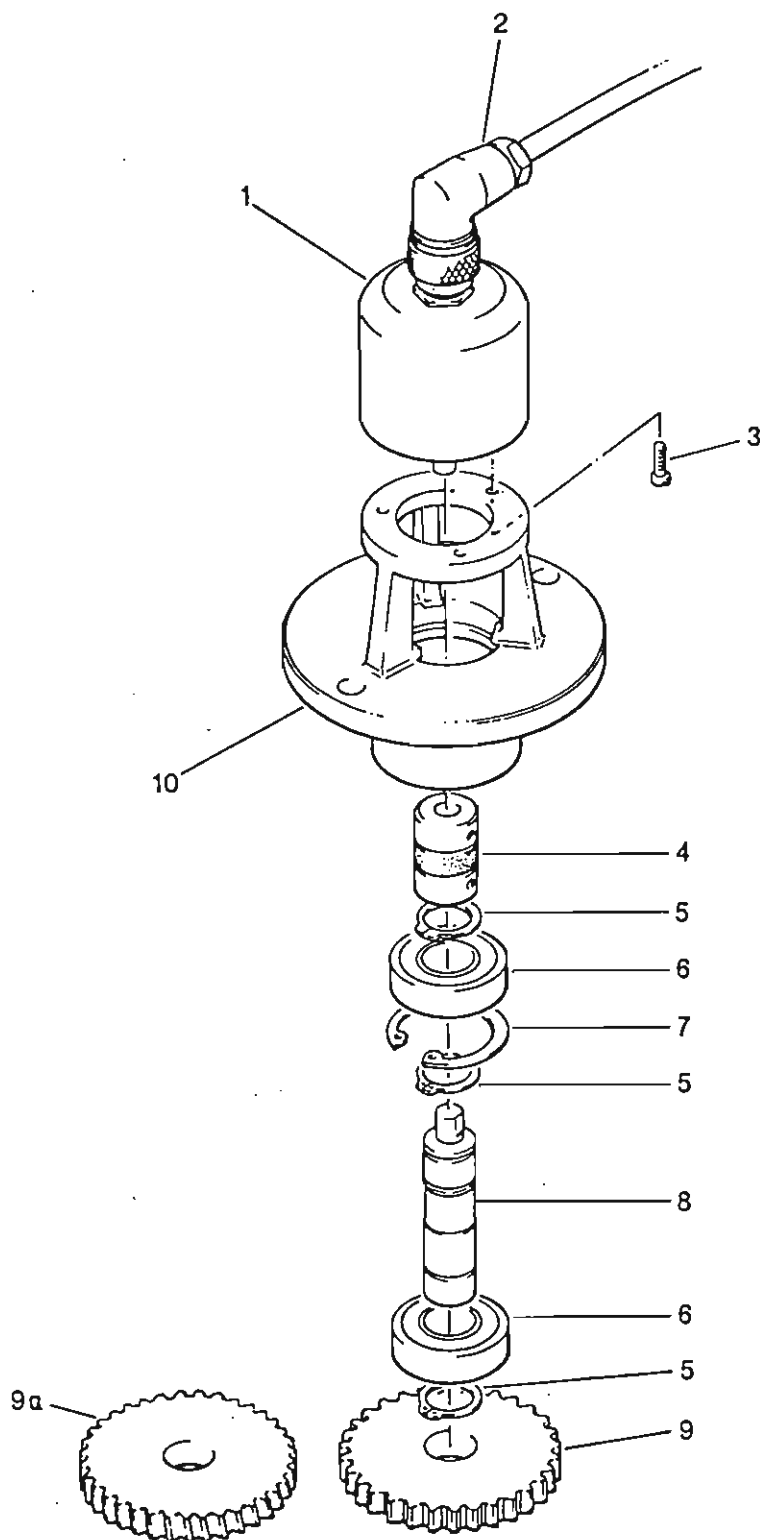
Gear cpl.
135.400.003

page 3 of 3

Item	Order no.	Quant.	Designation
1	135.100.200	1	Mounting plate
2	134.400.110	1	Splashproof protection
3	135.400.061	1	Shaft
4	063.062.055	1	Grooved ball bearing 6205-2RS
5	049.310.250	2	Circlip A25x1,2 DIN 471
6	091.113.402	1	Sleeve free-wheel
7	135.400.041	1	Gear Z=34
8	135.400.160	1	Spacing collar
9	063.062.051	1	Grooved ball bearing 6205
10	040.208.135	2	Hexagonal head screw M8x25 DIN 933
11	046.008.010	4	Washer 8,4 DIN 125
12	134.430.001	1	Impulse transmitter cpl.
13	134.400.120	1	Seal
14	046.013.010	4	Washer 13 DIN 125
15	040.912.195	4	Cheese head screw M12x40 DIN 912
16	090.314.001	1	Fluid motor
17	067.690.061	1	Screw neck SAG6/R1/4"
18	067.700.141	1	Hose clamp S14/9ZY
19	067.450.062	1	Low-pressure hydraulic hose
20	061.008.202	1	O-ring seal OR82-3
21	134.400.051	1	gear Z=26
22	134.400.080	1	Disk
23	040.208.090	1	Hexagon head screw M8x16 DIN 933
24	040.110.337	7	Hexagon head screw M10x100 DIN 931
25	046.010.010	14	Washer 10,5 DIN 125
26	134.410.001	1	Gear box assembly
27	040.208.095	1	Hexagon head screw M8x16 DIN 933
28	134.400.130	1	Hexagon head screw
29	060.301.001	1	Plastic cap
30	049.750.252	-	Seeger-shim 0,5
31	049.750.251	-	Seeger-shim 0,3
32	044.208.095	3	Threaded pin M8x16 DIN 915

134.430.000

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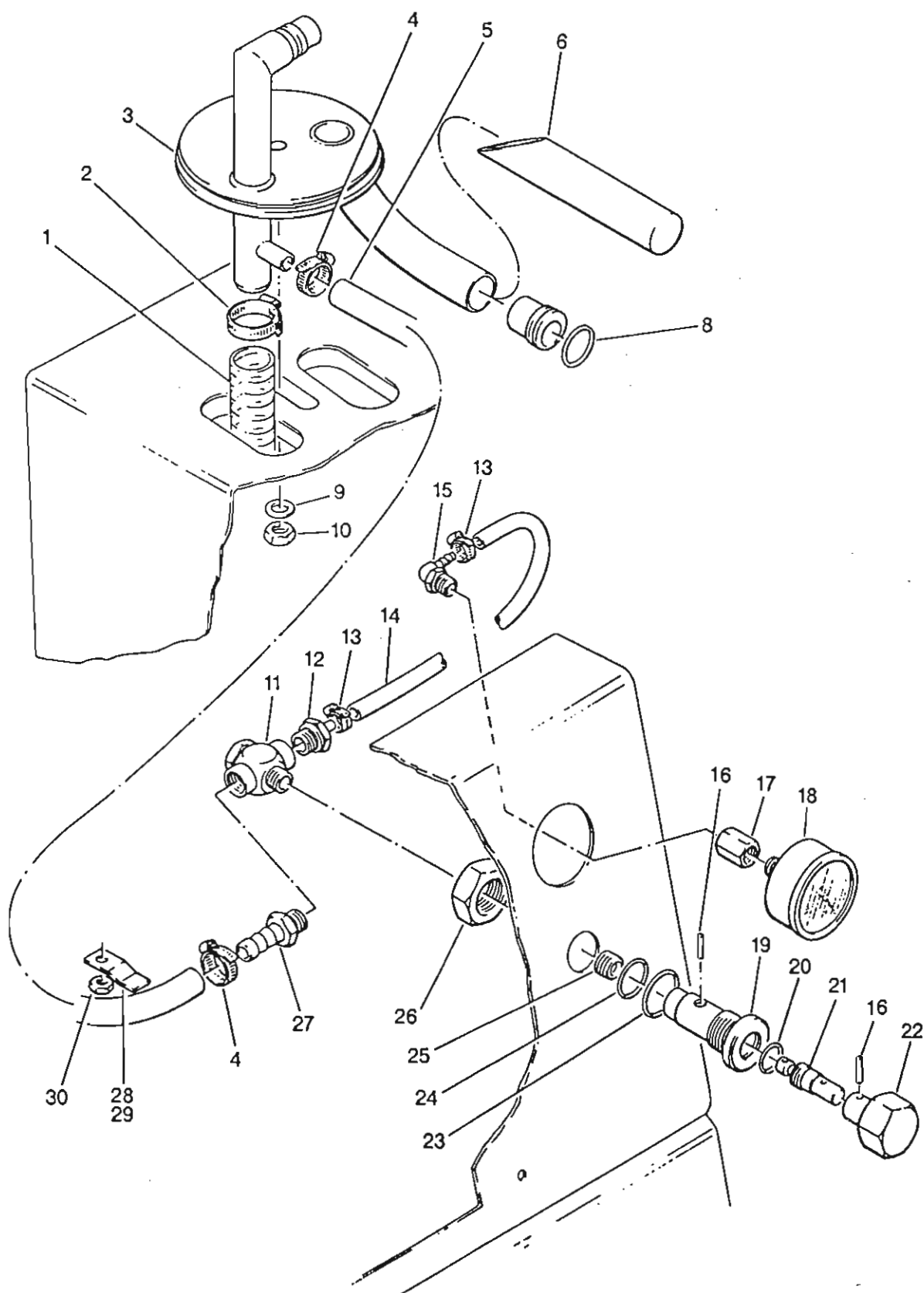
Impulse transmitter cpl.
134.430.000
Impulse transmitter cpl. (f. helical gearing)
134.430.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	072.500.005	1	Impulse transmitter
2	134.821.101	1	Wire
3	040.903.065	3	Cheese head screw M3x12 DIN 912
4	091.213.401	1	Torsionally elastic clutch
5	049.310.170	3	Seeger ring A17x1 DIN 471
6	063.060.035	2	Grooved ball bearing 6003-2RS
7	049.320.350	1	Seeger ring J35x1,5 DIN 472
8	134.430.030	1	Shaft
*9	134.430.010	1	Gear Z=27
9a	134.430.011	1	Gear Z=26
10	134.430.020	1	Flange
*for 134.430.001 Order no. 9 is - 134.430.011			

135.500.000

1/3



Vacuum system cpl.
135.500.000

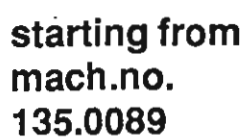
page 1 of 3

Item	Order no.	Quant.	Designation
1	067.420.251	1	Plastic spiral hose 1000 long
2	067.710.322	1	Hose clamp
3	134.512.003	1	Base plate assembly
4	067.710.251	2	Worm thread clamp SGL 16-25/9
5	068.682.802	1	Textile hose 1200 long
6	134.500.020	1	Insulating hose
7			
8	061.002.601	1	O-ring seal OR26-3
9	046.010.010	1	Washer 10,5 DIN 125
10	045.010.065	1	Hexagon nut M10 DIN 934
11	068.111.071	1	T-joint TJK-3/8
12	068.110.613	1	Quick joint connection
13	067.700.121	2	Hose clamp S12/9ZY
14	067.420.061	1	Guttasyn hose
15	067.540.062	1	Angle screw-in socket R1/4"
16	047.704.115	2	Cylindrical pin 4m6x18 DIN 7
17	068.110.851	1	Socket QM1/4-1/4
18	090.112.602	1	Vacuum gauge
19	140.510.020	1	Threaded shaft sleeve
20	061.002.002	1	O-ring seal OR20,3-2,4
21	140.511.020	1	Spindel
22	140.511.011	1	Handle
23	061.003.201	1	O-ring seal OR32,2-3
24	061.002.504	1	O-ring seal OR25,3-2,4
25	140.510.030	1	Plug screw
26	045.130.025	1	Hexagon nut M30 DIN 439
27	067.690.133	1	Screw hose union SAG13/R3/8"
28	134.100.490	2	Clamp (straight)
29	134.100.500	1	Clamp (angled)
30	045.008.065	3	Hexagon nut M8 DIN 934

 Parts connected
by welding spots

135.500.000

2/3



Vacuum system cpl.
135.500.000

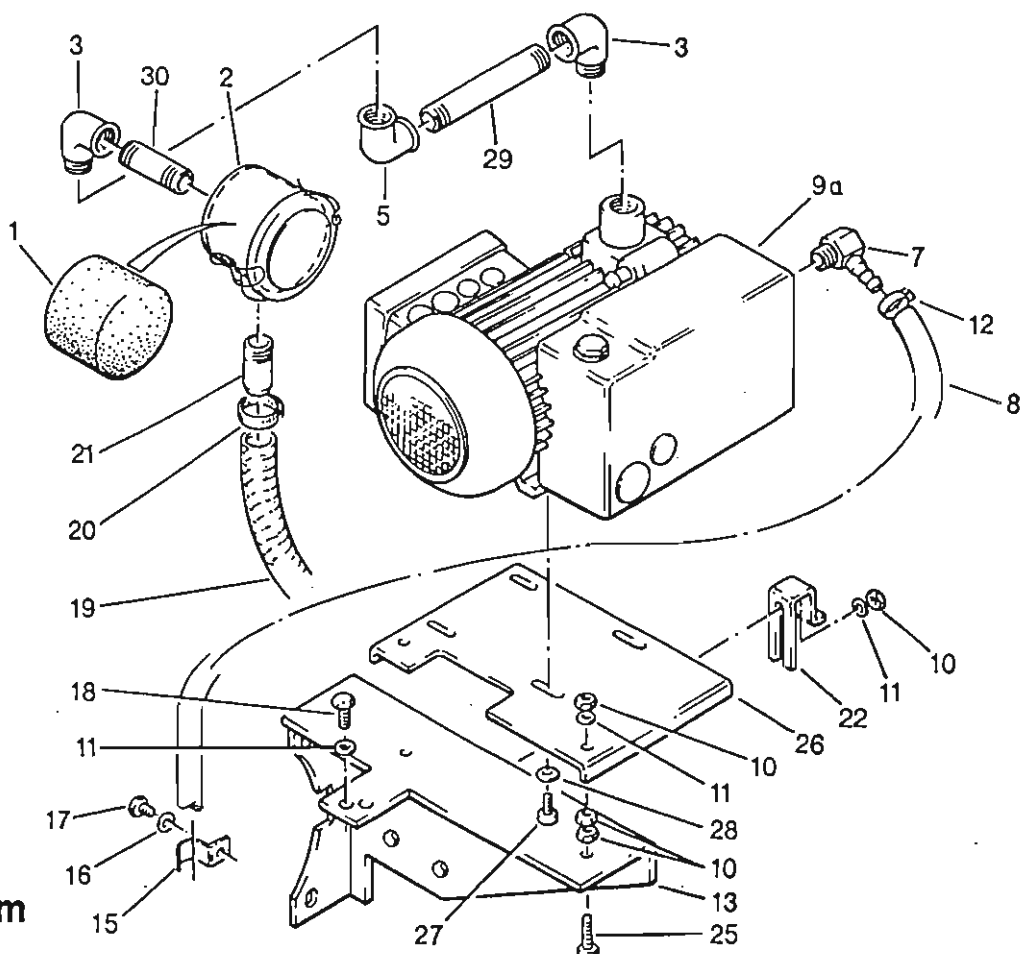
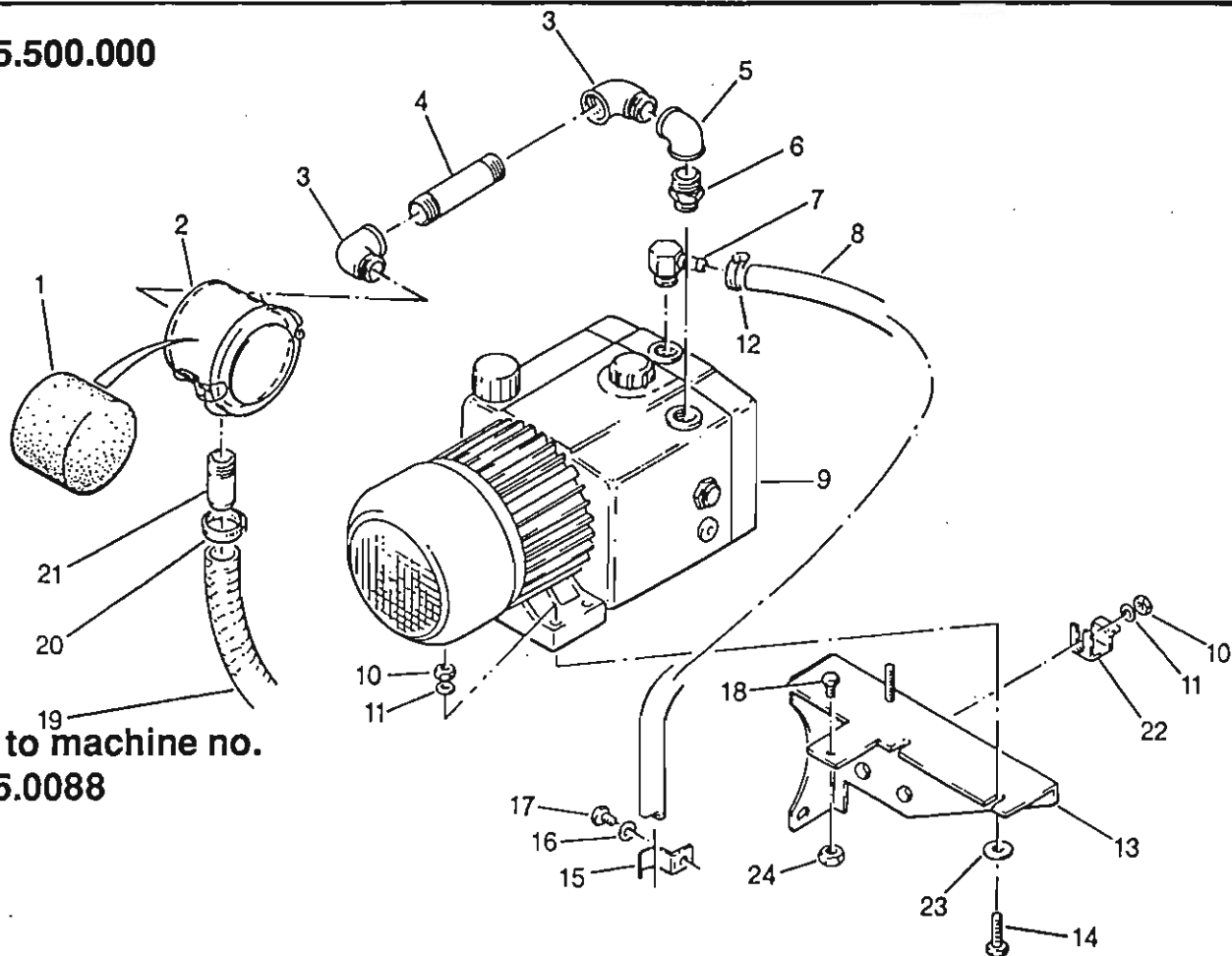
page 2 of 3

Item	Order no.	Quant.	Designation
1	096.090.004	-	Exchange cartridge
2	096.012.601	1	Air filter
3	068.410.205	2	Angle [A4] R3/4" DIN 2950
4	068.490.204	1	Tube double nipple R3/4x100 long
5	068.410.206	1	Angle 90-3/4"[A1] DIN 2950
6	068.460.206	1	Double nipple N8 R3/4xR1/2 DIN 2950
7	067.690.131	1	Screwed hose union WSAG 13/R1/2"
8	068.682.802	1	Textile hose 1,2 m long
9	134.500.220	1	Vacuum pump (Fa. Rietschle)*
9a	090.113.402	1	Vacuum pump
10	045.008.065	7	Hexagon head screw M8 DIN 934
11	046.008.010	3	Washer 8,4 DIN 125
12	067.710.251	1	Worm thread clamp SGL 16-25/9
13	135.521.000	1	Bracket assembly
14	040.108.195	1	Hexagon head screw M8x40 DIN 931
15	067.760.221	1	Clamp BSN 22x20x2
16	046.006.010	1	Washer 6,4 DIN 125
17	040.206.055	1	Hexagon head screw M6x10 DIN 933
18	040.208.115	1	Hexagon head screw M8x12 DIN 933
19	067.420.251	1	Plastic spiral hose
20	067.710.322	1	Hose clamp
21	112.400.350	1	Double nipple
22	135.530.200	1	Clamp
23	046.108.020	1	Washer B8,4 DIN 9021
24	045.010.065	1	Hexagon nut M10 DIN 934
25	040.208.175	2	Hexagon head screw M8x35 DIN 933
26	134.540.030	1	Dividing plate for vacuum pump
27	040.906.095	4	Cheese head screw M6x16 DIN 912
28	046.106.020	4	Scheibe B6,4 DIN 9021
29	068.490.208	1	Tube double nipple R3/4"x120lg.
30	068.490.202	1	Tube double nipple R3/4"x60lg.

135.500.000

3/3

up to machine no.
135.0088



starting from
mach.no.
135.0089

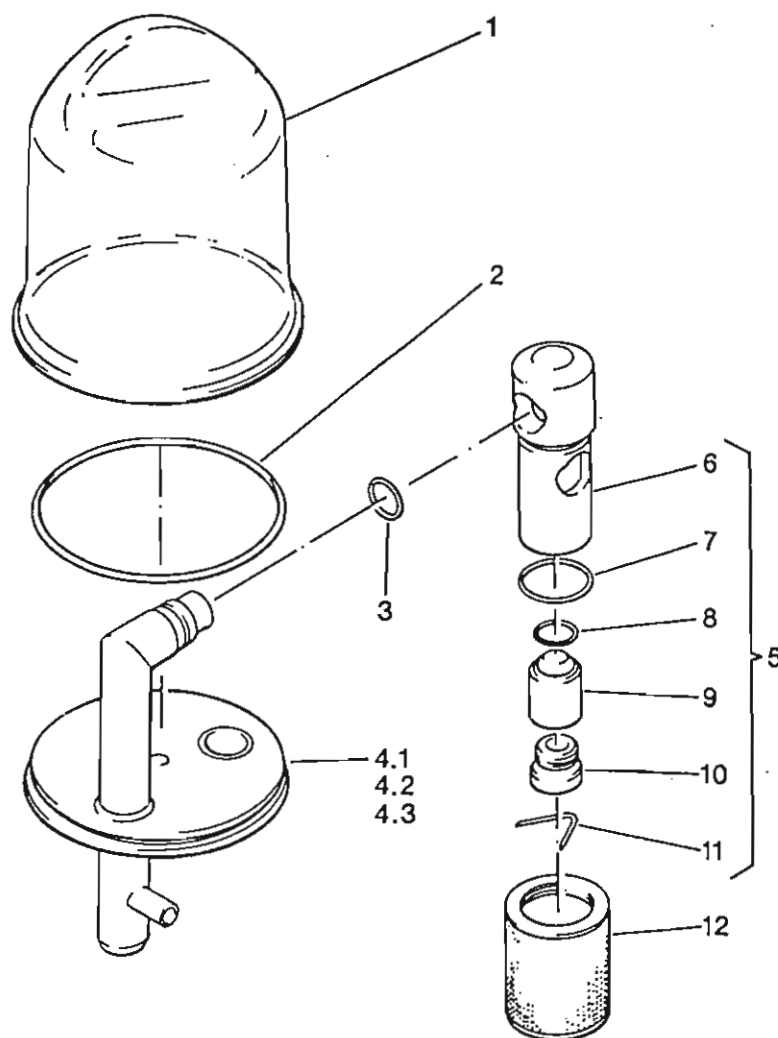
Spare parts for vacuum pump
134.500.220
090.113.402

page 3 of 3

Item	Order no.	Quant.	Designation
1	090.190.010	-	Wearing part kit for vacuum pump Fa. Rietschle (134.500.220) includes among other:
1a	090.190.903	3	Lamella
1b	063.062.051	1	Deep grooved ball bearing 25x52x15
1c	090.190.806	1	Suction sieve
1d	090.190.901	1	Air de-oil unit
1e	090.190.904	2	Hexagonal-oil-level gauge glass
1f	090.190.902	1	Cartridge
1g	063.062.045	1	Deep grooved ball bearing 20x47x14
1h	090.190.011	1	Seal set
2	090.190.015	-	Wearing part kit for vacuum pump (090.113.402) includes among other:
2a	090.190.012	1	Seal set
2b	090.190.013	3	Vane
2c	090.190.014	1	Plug screw with mit replenishing symbol
2d	090.190.017	1	Air de-oil unit
3	090.190.016	-	Maintenance kit for vacuum pump (090.113.402) includes among other:
3a	090.190.017	1	Air de-oil unit

134.510.000

1/1

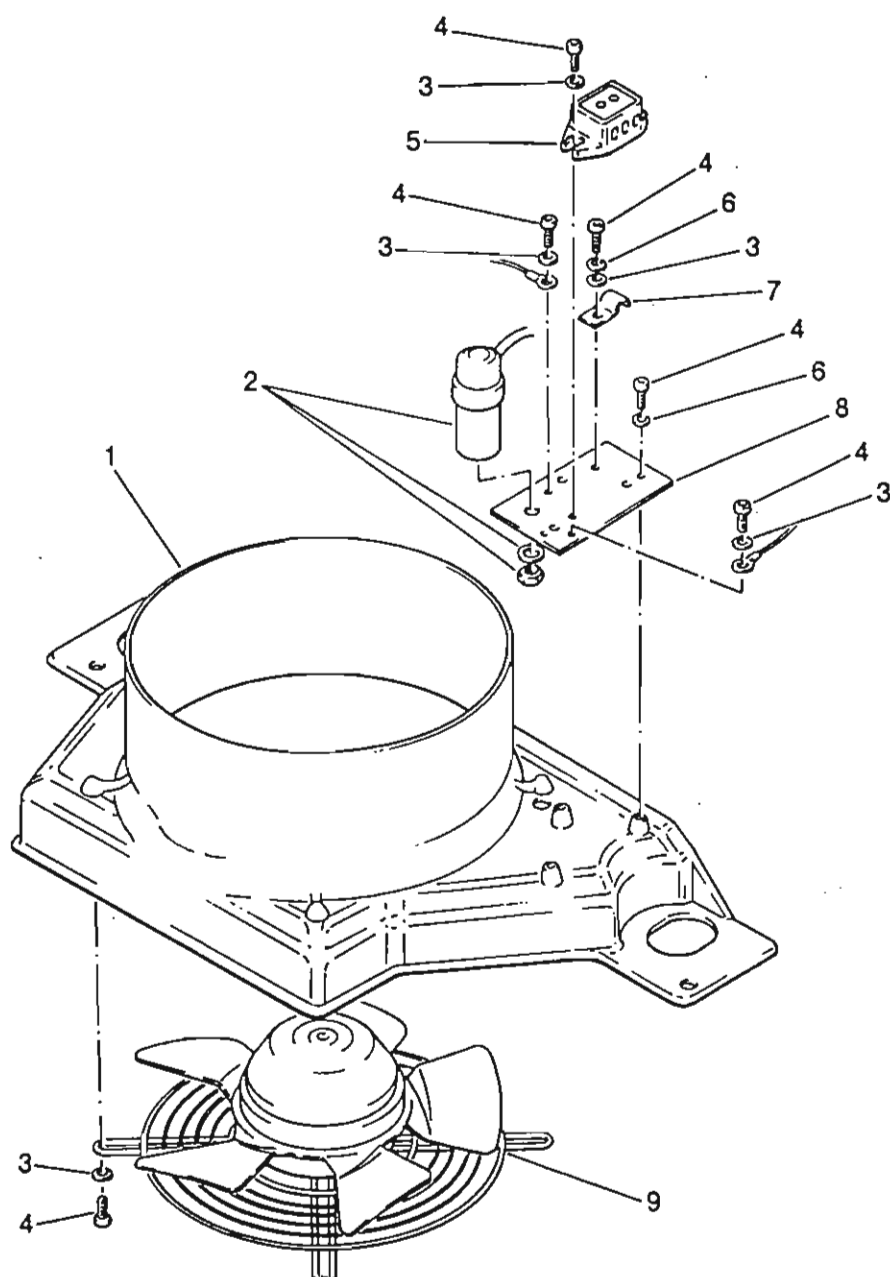


Vacuum pot cpl.
134.510.000
page 1 of 1

Item	Order no.	Quant.	Designation
1	134.511.001	1	Vacuum pot assembly
2	134.510.040	1	Hose ring
3	061.002.002	1	O-ring seal OR 20,3-2,4
4.1	134.512.001	-	Bottom plate assembly
4.2	134.512.002	-	Bottom plate assembly
4.3	134.512.003	1	Bottom plate assembly
5	126.550.000	1	Float valve cpl.
6	126.550.010	1	Valve body
7	061.003.501	1	O-ring seal OR35,2-3
8	061.001.802	1	O-ring seal OR18,2-3
9	126.552.011	1	Float
10	126.552.021	1	Float cap
11	126.550.030	1	Spring
12	126.501.002	1	Sieve assembly

135.530.001

1/1



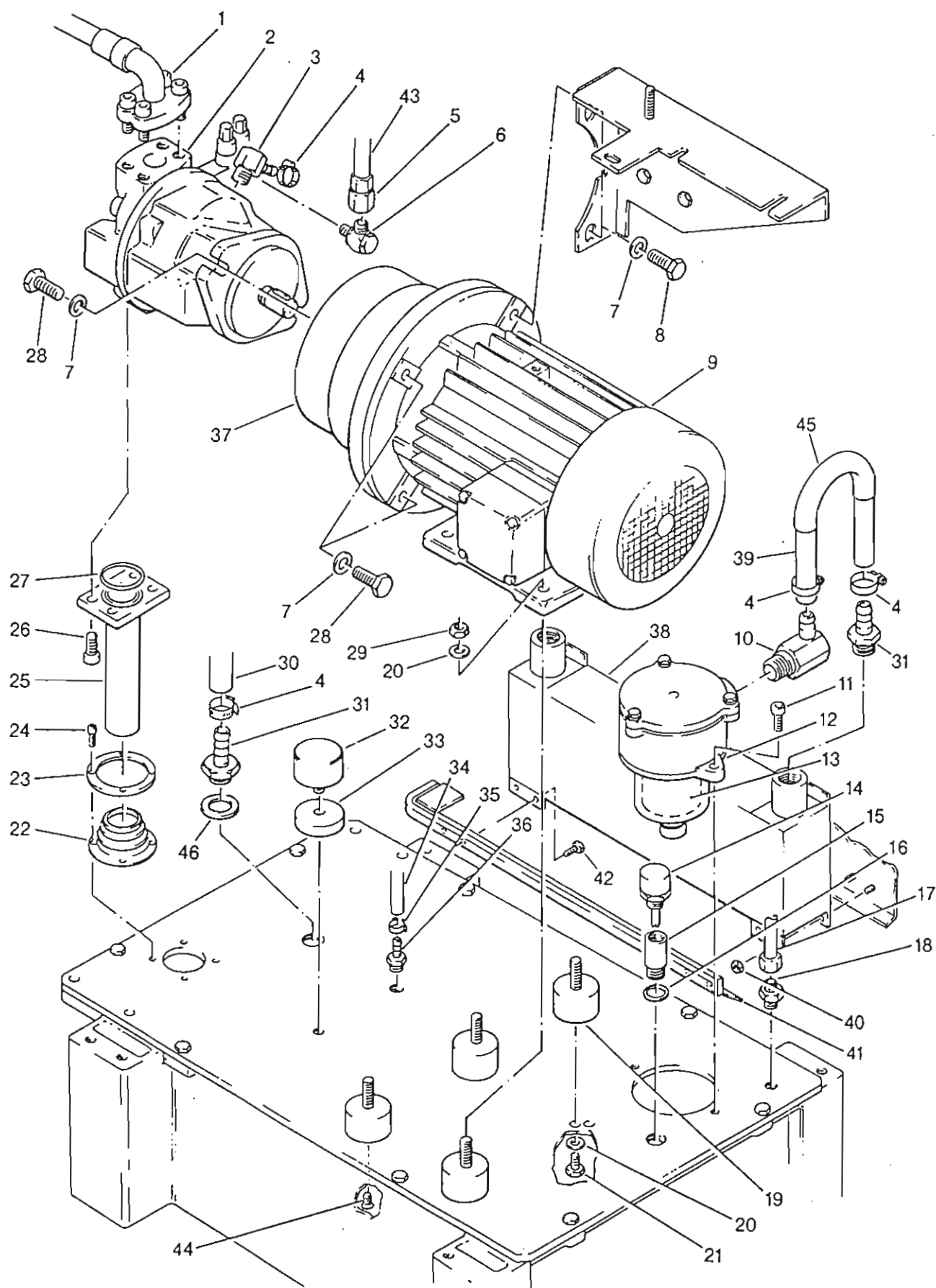
Fan cpl.
135.530.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	135.530.280	1	Fan hood
2	073.100.003	1	Capacitor
3	046.004.010	9	Washer 4,3 DIN 125
4	041.604.065	12	Cheese-head screw M4x12 DIN 84
5	075.099.026	1	Terminal strip
6	046.504.035	4	Spring washer A4 DIN 127
7	070.802.012	1	Mounting clamp
8	135.530.100	1	Mounting plate
9	093.313.501	1	Axial fan

135.600.001

1/1



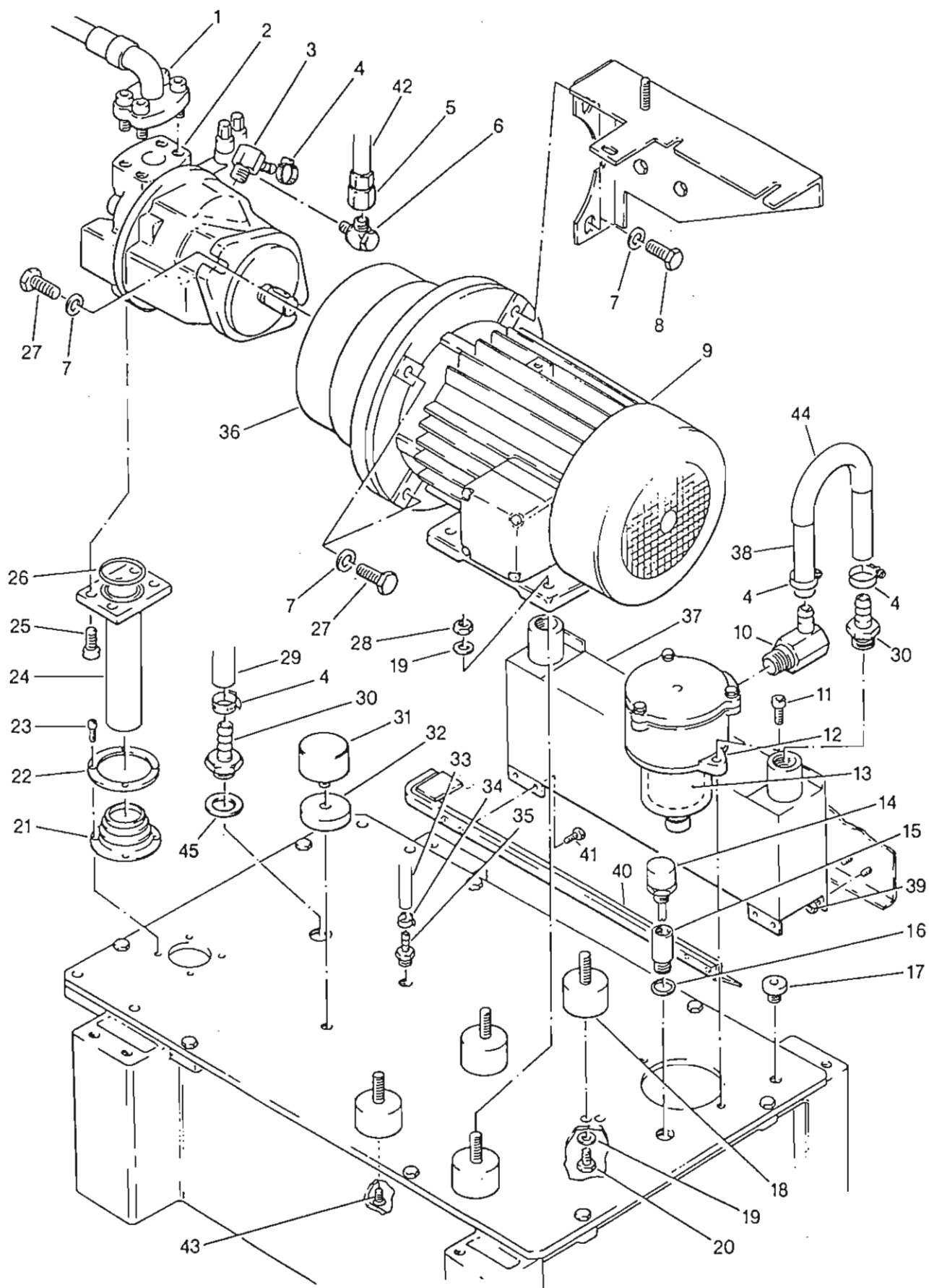
Hydraulic system with linking
135.600.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	140.618.001	1	Pressure hose assembly
2	090.213.401	1	Hydraulic adjusting pump
3	067.690.142	1	Screwed hose union WSAG13/M18x1,5
4	067.700.211	6	Hose clamp S21/9ZY
5	140.696.000	1	Threaded straightjoint assembly
6	067.860.807	1	Pivoting joint
7	046.013.010	6	Washer 13 DIN 125
8	040.212.175	2	Cheese head screw M12x35 DIN 933
9	081.441.023	1	Three phase current motor
10	067.690.131	1	Screwed hose union
11	040.908.115	2	Cheese-head screw M8x20 DIN 912
12	093.913.401	1	Return filter
13	093.913.402	-	Filter cartridge
14	093.990.003	1	Air filter with dipstick
15	134.600.410	1	Double nipple
16	061.501.801	1	Seal 18x22x1,5
17	134.600.550	1	Tube oil leakage
18	067.810.801	1	Ermeto-connector
19	066.710.503	4	Rubber-metal buffer
20	046.010.010	6	Washer 10,5 DIN 125
21	040.210.095	2	Hexagon head screw M10x16 DIN 933
22	060.503.201	1	Bellows
23	140.600.240	1	Spacing collar
24	040.904.095	4	Cheese-head screw M4x16 DIN 912
25	134.640.000	1	Suction pipe assembly
26	040.910.135	4	Cheese-head screw M10x25 DIN 912
27	061.004.002	1	O-ring seal OR40,2x3
28	040.212.151	4	Hexagon head screw M12x30 DIN 933
29	045.110.065	4	Hexagon nut M10 DIN 934
30	067.450.121	1	Low pressure hydraulic hose, 210 lg.
31	067.690.134	3	Screwed hose union SAG13/R1/2"
32	066.710.502	1	Rubber-metal buffer
33	135.600.160	1	Disk for rubber-metal buffer
34	067.450.062	1	Low pressure hydraulic hose, 420 lg.
35	067.700.141	2	Hose clamp S14/9ZY
36	067.690.061	1	Screwed hose union SAG6/R1/4"
37	090.213.402	1	Pump support
38	135.600.230	1	Oil cooler
39	067.450.121	1	Low pressure hydraulic hose, 480 lg.
40	045.006.065	4	Hexagon nut M6 DIN 934 V2A
41	135.650.000	1	Guiding plate assembly
42	040.206.065	4	Hexagon head screw M6x12 DIN 933
43	134.600.220	1	Pressure hose assembly
44	041.910.090	2	Countersunk screw M10x16, DIN 963
45	068.242.203	1	Double bend
46	046.021.010	1	Washer 21 DIN 125

135.600.002

1/1



Hydraulic system without linking

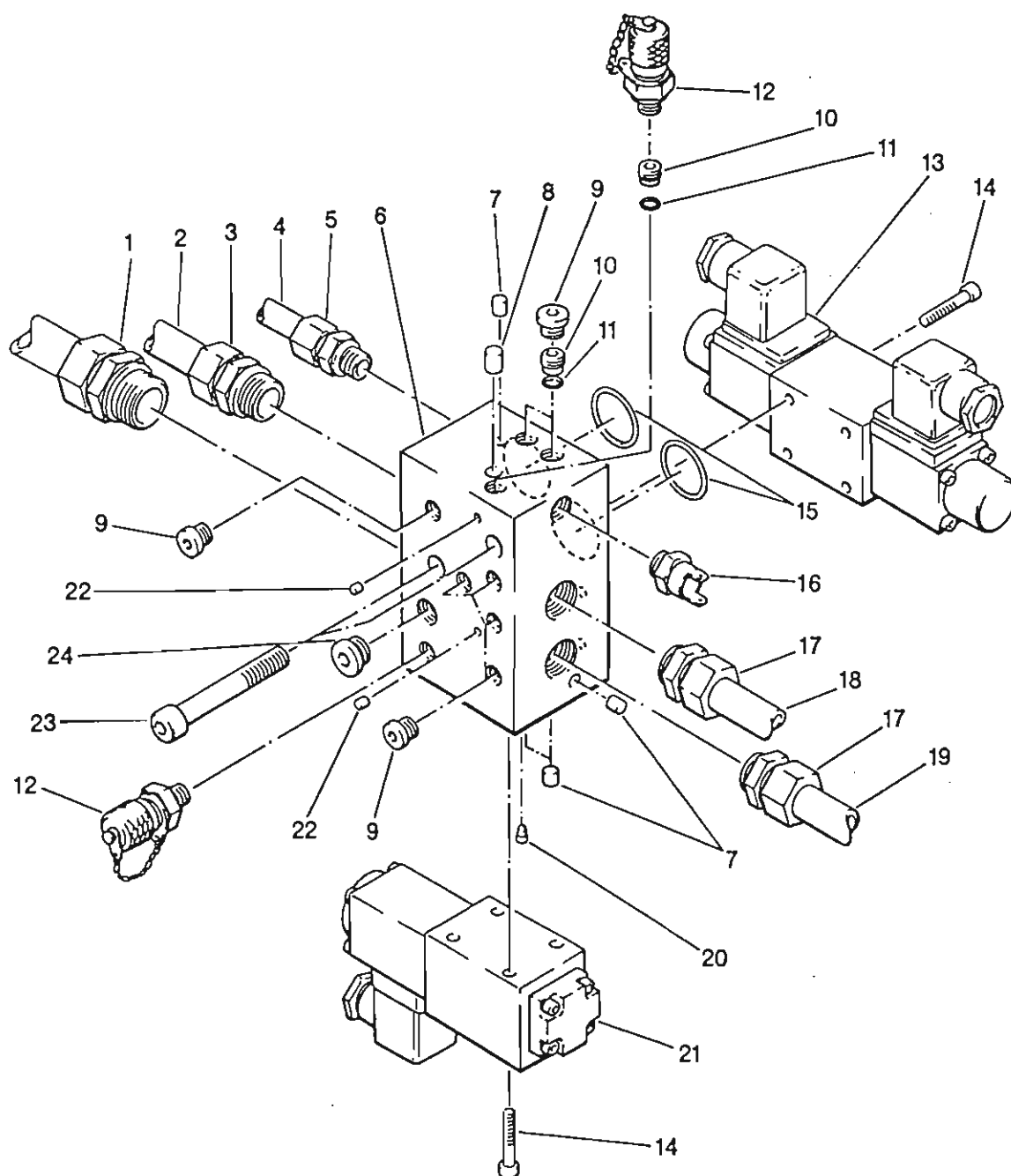
135.600.002

page 1 of 1

Item	Order no.	Quant.	Designation
1	140.618.001	1	Pressure hose assembly
2	090.213.401	1	Hydraulic adjusting pump
3	067.690.142	1	Screwed hose union WSAG13/M18x1,5
4	067.700.211	6	Hose clamp S21/9ZY
5	140.696.000	1	Threaded straightjoint assembly
6	067.860.807	1	Pivoting joint
7	046.013.010	6	Washer 13 DIN 125
8	040.212.175	2	Cheese head screw M12x35 DIN 933
9	081.441.023	1	Three phase current motor
10	067.690.131	1	Screwed hose union
11	040.908.115	2	Cheese-head screw M8x20 DIN 912
12	093.913.401	1	Return filter
13	093.913.402	-	Filter cartridge
14	093.990.003	1	Air filter with dipstick
15	134.600.410	1	Double nipple
16	061.501.801	1	Seal 18x22x1,5
17	068.050.802	1	Plug screw VSTI R1/4"-ED
18	066.710.503	4	Rubber-metal buffer
19	046.010.010	6	Washer 10,5 DIN 125
20	040.210.095	2	Hexagon head screw M10x16 DIN 933
21	060.503.201	1	Bellows
22	140.600.240	1	Spacing collar
23	040.904.095	4	Cheese-head screw M4x16 DIN 912
24	134.640.000	1	Suction pipe assembly
25	040.910.135	4	Cheese-head screw M10x25 DIN 912
26	061.004.002	1	O-ring seal OR40,2x3
27	040.212.151	4	Hexagon head screw M12x30 DIN 933
28	045.110.065	4	Hexagon nut M10 DIN 934
29	067.450.121	1	Low pressure hydraulic hose, 210 lg.
30	067.690.134	3	Screwed hose union SAG13/R1/2"
31	066.710.502	1	Rubber-metal buffer
32	135.600.160	1	Disk for rubber-metal buffer
33	067.450.062	1	Low pressure hydraulic hose, 420 lg.
34	067.700.141	2	Hose clamp S14/9ZY
35	067.690.061	1	Screwed hose union SAG6/R1/4"
36	090.213.402	1	Pump support
37	135.600.230	1	Oil cooler
38	067.450.121	1	Low pressure hydraulic hose, 480 lg.
39	045.006.065	4	Hexagon nut M6 DIN 934 V2A
40	135.650.000	1	Guiding plate assembly
41	040.206.065	4	Hexagon head screw M6x12 DIN 933
42	134.600.220	1	Pressure hose assembly
43	041.910.090	2	Countersunk screw M10x16, DIN 963
44	068.242.203	1	Double bend
45	046.021.010	1	Washer 21 DIN 125

135.620.001

1/1



Valve block cpl. with linking

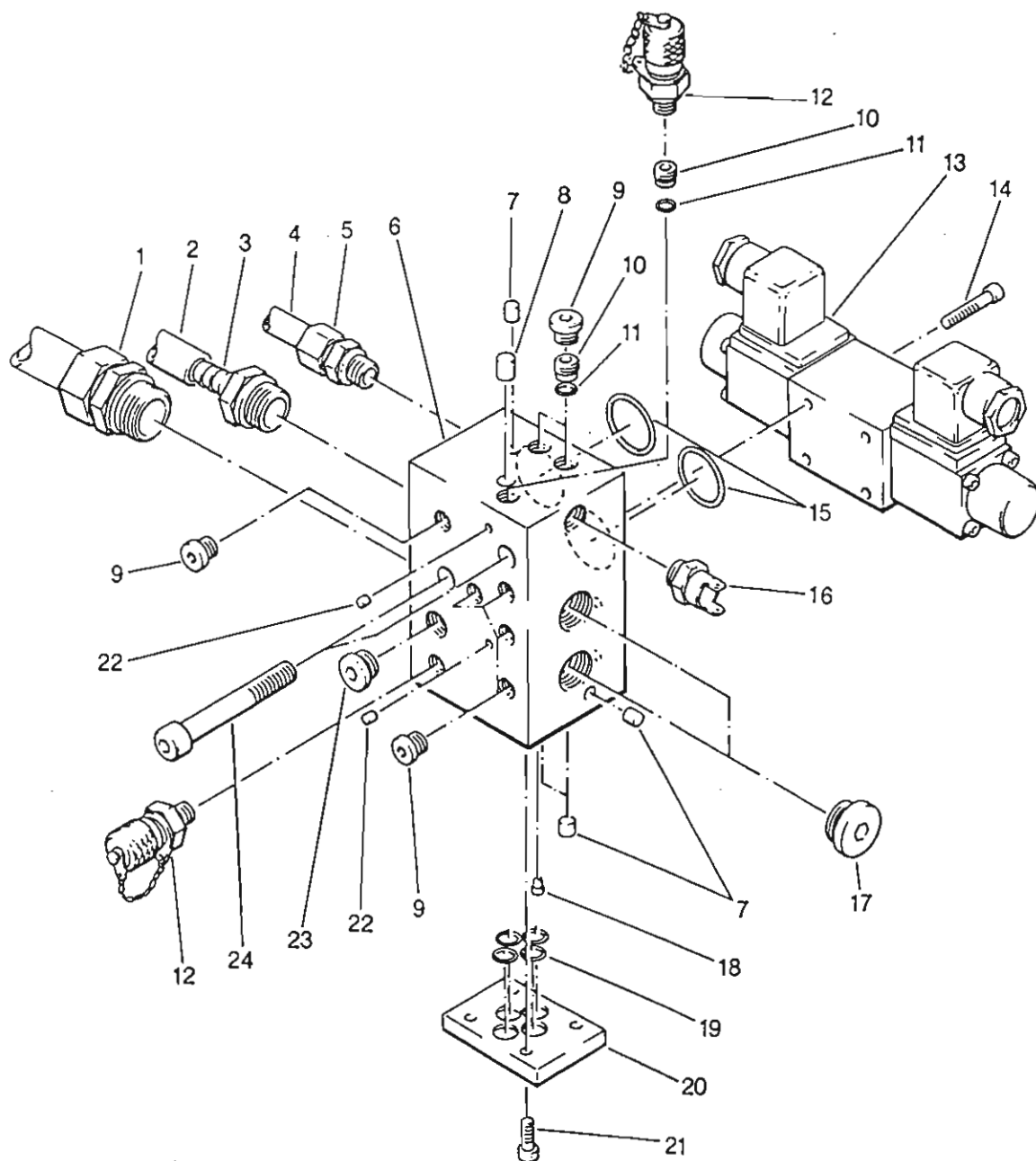
135.620.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	067.812.001	1	Threaded straight joint
2	067.450.121	1	Low- pressure hydraulic hose, 480 lg.
3	067.690.134	1	Hose connection-screw neck
4	134.600.220	1	Pressure hose assembly
5	067.810.809	1	Threaded straight joint
6	134.620.010	1	Valve body
7	060.300.701	4	Expander
8	060.300.901	1	Expander
9	068.050.603	7	Plug screw
10	090.513.401	3	Check valve
11	061.000.503	3	O-ring seal 5,5x1
12	067.930.062	2	Measuring connector G1/8
13	090.513.402	1	Proportional way-valve NG6
14	040.905.157	8	Cheese-head screw M5x30 DIN 912
15	061.002.503	2	O-ring seal OR25,2x3
16	093.014.001	1	Thermostat
17	067.811.501	2	Threaded straight joint
18	134.600.540	1	Returntube, valve body-linking motor
19	134.600.530	1	Pressure tube
20	093.912.803	1	Nozzle GR80
21	090.513.403	1	Proportional choker valve NG6
22	060.300.502	2	Expander
23	040.910.285	2	Cheese-head screw M10x75 DIN 912
24	068.051.401	1	Plug screw

135.620.002

1/1



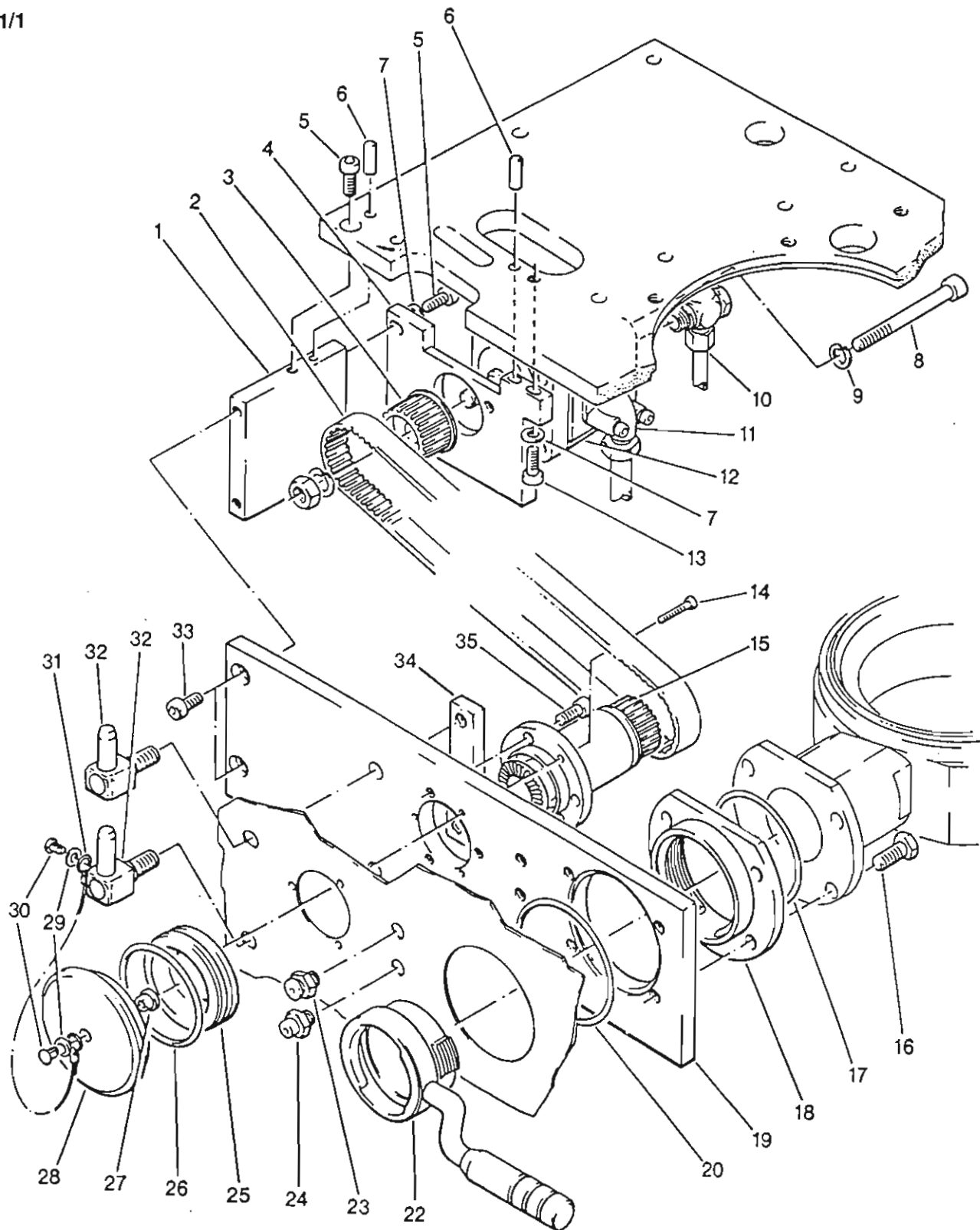
Valve block cpl. without linking**135.620.002**

page 1 of 1

Item	Order no.	Quant.	Designation
1	067.812.001	1	Threaded straight joint
2	067.450.121	1	Low- pressure hydraulic hose, 480 lg.
3	067.690.134	1	Hose connection-screw neck
4	134.600.220	1	Pressure hose assembly
5	067.810.809	1	Threaded straight joint
6	134.620.010	1	Valve body
7	060.300.701	4	Expander
8	060.300.901	1	Expander
9	068.050.603	7	Plug screw
10	090.513.401	3	Check valve
11	061.000.503	3	O-ring seal 5,5x1
12	067.930.062	2	Measuring connector G1/8
13	090.513.402	1	Proportional way-valve NG6
14	040.905.157	4	Cheese-head screw M5x30 DIN 912
15	061.002.503	2	O-ring seal OR25,2x3
16	093.014.001	1	Thermostat
17	068.051.501	2	Plug screw
18	093.912.803	1	Nozzle GR80
19	061.001.003	4	O-ring seal OR10x1,5
20	140.680.230	1	Cover plate
21	040.905.091	4	Cheese-head screw M5x16 DIN 912
22	060.300.502	2	Expander
23	068.051.401	1	Plug screw
24	040.910.285	2	Cheese-head screw M10x75 DIN 912

134.700.001

1/1



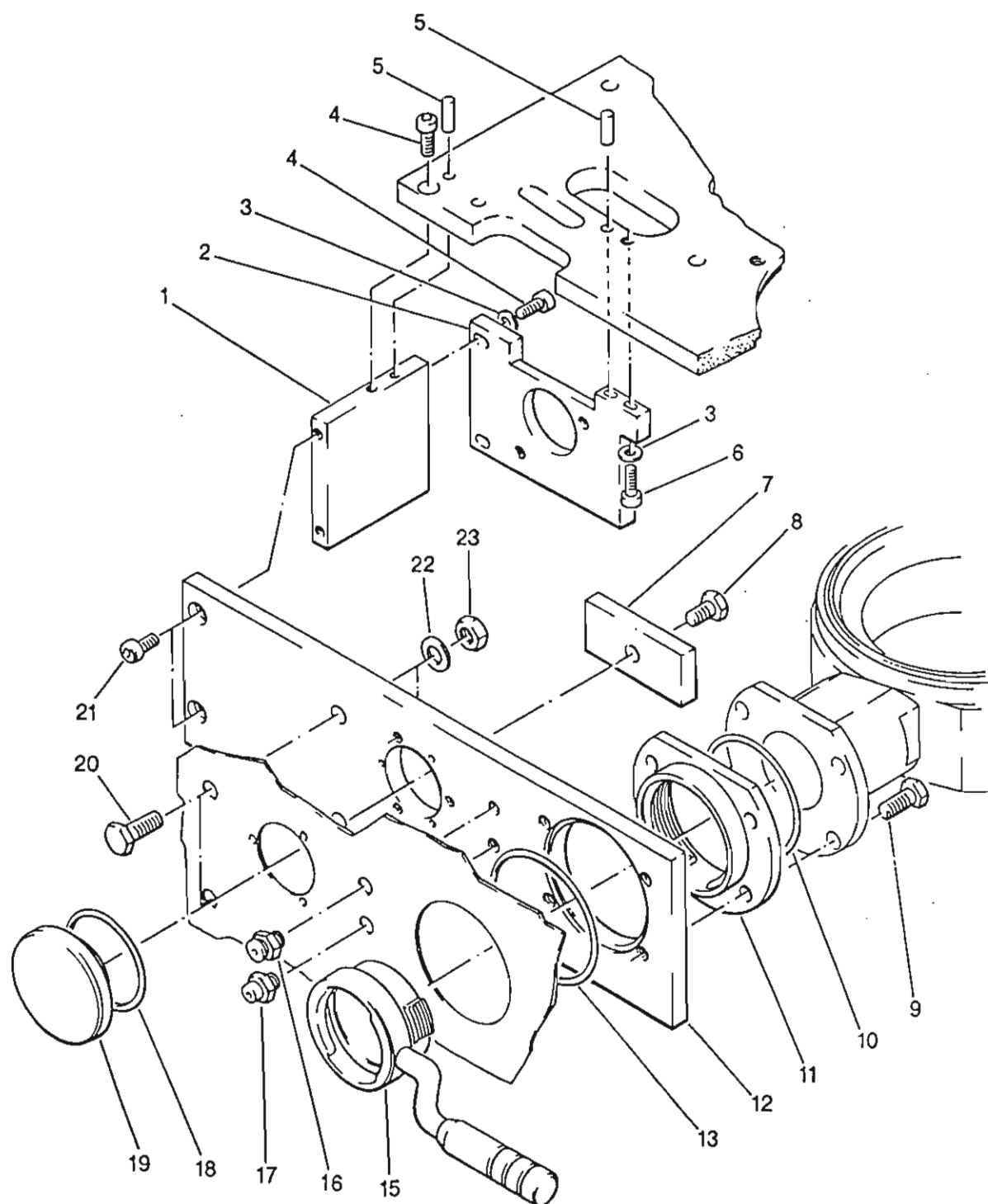
Linking drive
134.700.001

page 1 of 1

Item	Order no.	Quant.	Designation
1	134.100.230	1	Connecting plate
2	066.404.201	1	Toothed belt
3	134.751.030	1	Synchronizing disk
4	134.100.221	1	Support plate (no more available)
5	040.908.135	3	Cheese head screw M8x25 DIN 912
6	047.708.125	2	Cylindrical pin 8m6x20 DIN 7
7	046.008.010	3	Washer 8,4 DIN 125
8	040.910.337	2	Cheese head screw M10x100 DIN 912
9	046.510.021	2	Spring washer B10 DIN 127
10	067.860.809	1	Pivoting joint
11	068.011.501	2	Threaded joint
12	090.313.401	1	Gear motor
13	040.908.175	1	Cheese head screw M8x35 DIN 912
14	040.905.155	3	Cheese head screw M5x30 DIN 912
15	134.751.000	1	Cartridge assembly
16	040.210.135	4	Hexagonal head screw M10x25 DIN 933
17	061.008.601	1	O-ring seal OR86x2
18	134.100.240	1	Flange
19	134.100.210	1	Front plate
20	134.100.550	1	Hose ring
21			
22	930.101.000	1	Locking nut assembly
23	067.200.105	1	Button head lubricating nipple AM10x1 DIN 3404
24	134.100.530	1	Button head lubricating nipple
25	134.710.120	1	Collar bush
26	061.006.303	1	O-ring seal OR63,09x3,53
27	140.750.210	1	Bush
28	140.750.190	1	Cover
29	046.006.010	2	Washer 6,4 DIN 125
30	048.306.065	2	Grooved drive stud 6x10 DIN 1476
31	140.750.230	1	Holding rope assembly
32	150.754.000	2	Locating screw cpl.
33	041.008.095	2	Cheese head screw M8x16 DIN 6912
34	150.750.040	1	Tapped plate
35	040.908.115	3	Cheese head screw M8x20 DIN 912

134.700.002

1/1



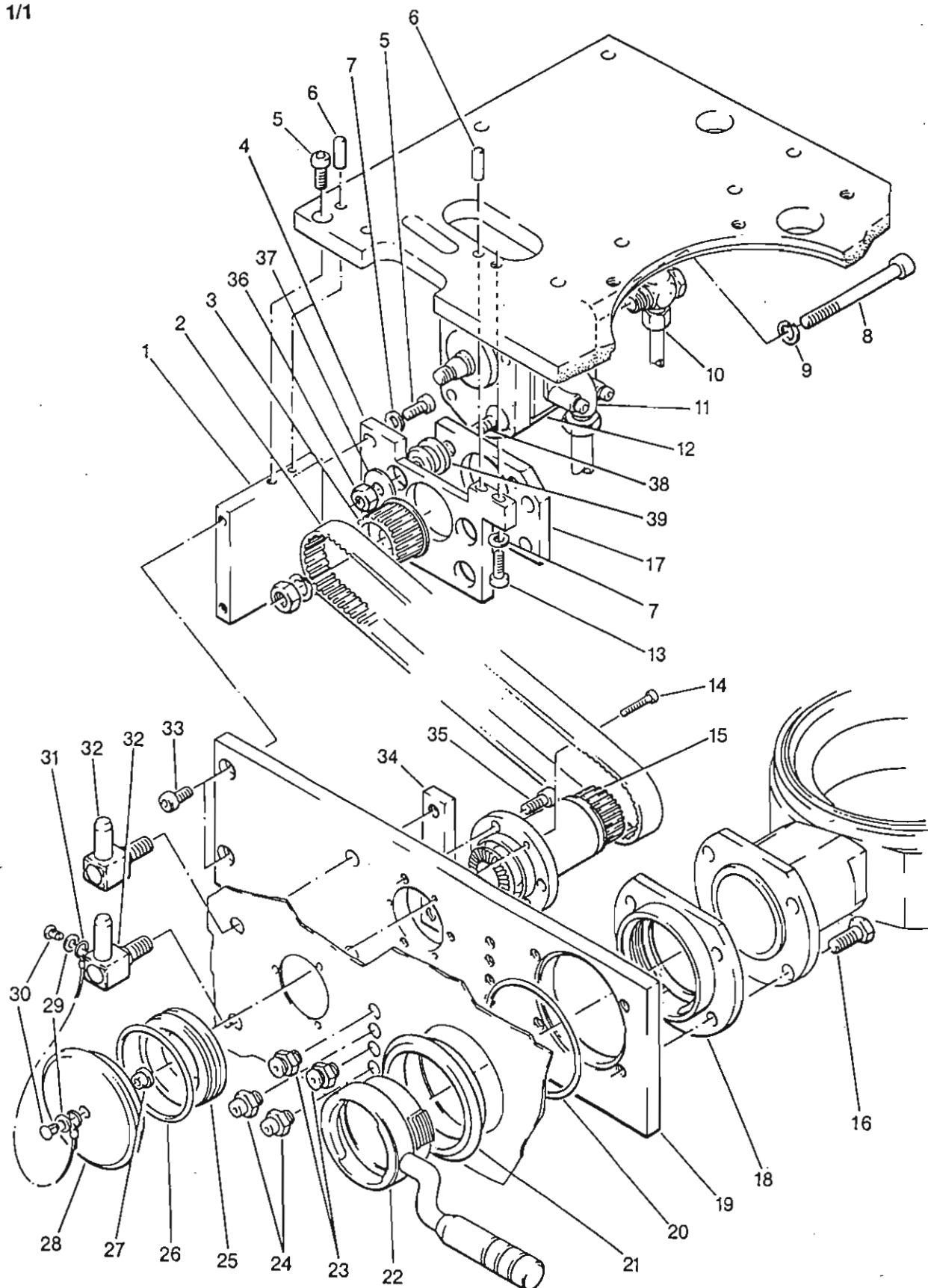
without linking drive
134.700.002

page 1 of 1

Item	Order no.	Quant.	Designation
1	134.100.230	1	Connecting plate
2	134.100.221	1	Support plate (for replacement 134.100.222)
3	046.008.010	3	Washer 8,4 DIN 125
4	040.908.135	3	Cheese-head screw M8x25 DIN 912
5	047.708.125	2	Cylindrical pin 8m6x20 DIN 7
6	040.908.175	1	Cheese-head screw M8x35 DIN 912
7	128.100.150	1	Plate
8	040.210.095	1	Hexagon head screw M10x16 DIN 933
*9	040.210.135	4	Hexagon head screw M10x25 DIN 933
*10	061.008.601	1	O-ring seal OR86x2
*11	134.100.240	1	Flange
12	134.100.210	1	Front plate
13	134.100.550	1	Hose ring
14			
15	930.101.000	1	Locking nut assembly
*16	067.200.105	1	Flat greaser AM10x1 DIN 3404
*17	134.100.530	1	Flat greaser
18	061.006.802	1	O-ring seal OR68x2
19	134.700.050	1	Dummy cover
20	134.700.010	2	Hexagon head screw
21	041.008.095	2	Cheese-head screw M8x16 DIN 6912
22	046.013.010	2	Washer 13 DIN 125
23	045.012.065	2	Hexagon nut M12 DIN 934
			* resp. see page 18.2a

134.700.005

1/1



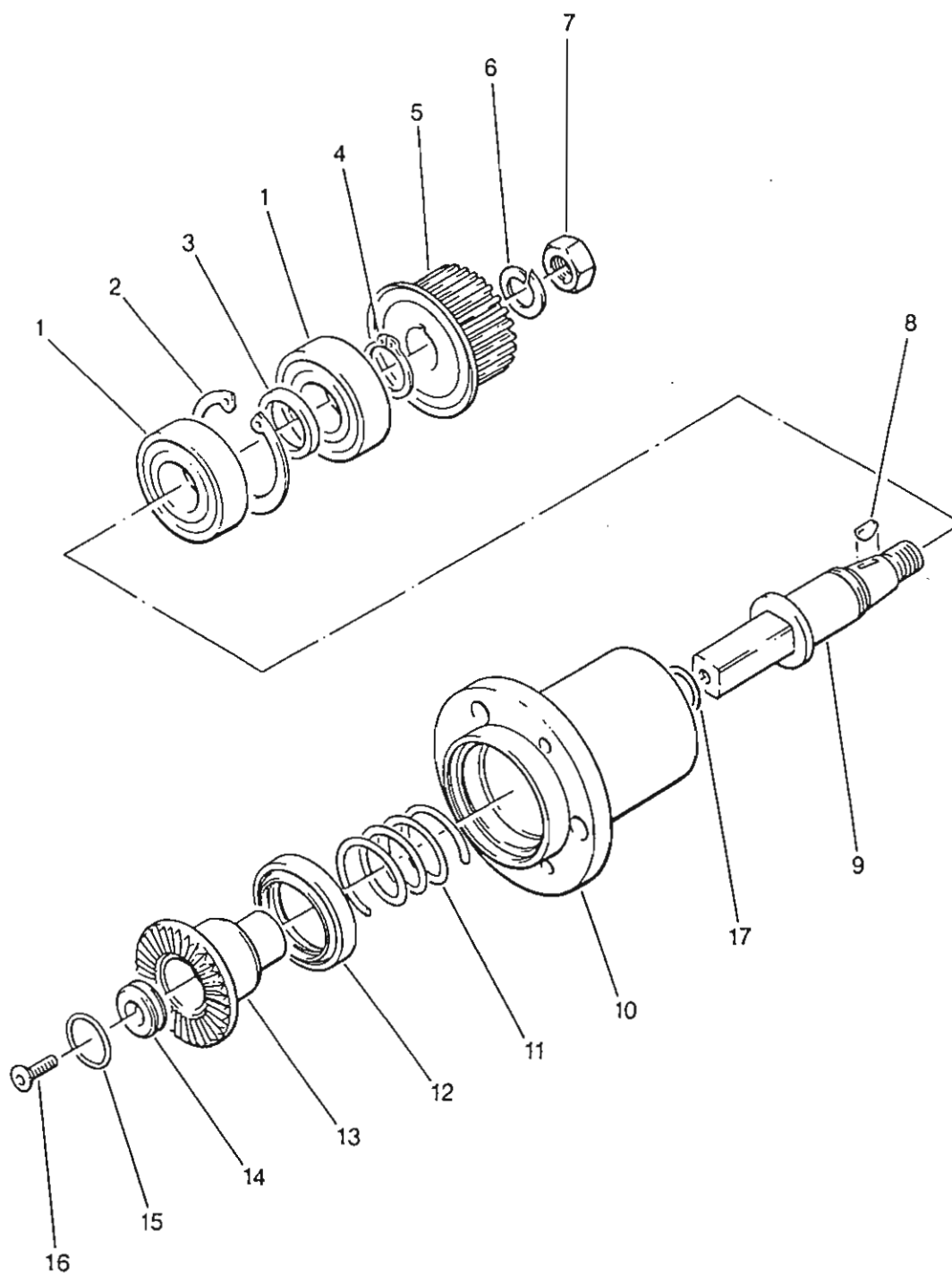
Linking drive (damped)
134.700.005

page 1 of 1

Item	Order no.	Quant.	Designation
1	134.100.230	1	Connecting plate
2	066.404.201	1	Support plate
3	134.750.030	1	Synchronizing disk
4	134.100.222	1	Support plate
5	040.908.135	3	Cheese head screw M8x25 DIN 912
6	047.708.125	2	Cylindrical pin 8m6x20 DIN 7
7	046.008.010	3	Washer 8,4 DIN 125
8	040.910.337	2	Cheese head screw M10x100 DIN 912
9	046.510.021	2	Spring washer B10 DIN 127
10	067.860.809	1	Pivoting joint
11	068.011.501	2	Joint
12	090.313.401	1	Gear motor
13	040.908.175	1	Cheese head screw M8x35 DIN 912
14	040.905.155	3	Cheese head screw M5x30 DIN 912
15	134.751.000	1	Cartridge assembly
16	040.210.156	4	Hexagonal head screw M10x30 DIN 933
17	134.750.100	1	Support
18	134.100.241	1	Threaded piece
19	134.100.210	1	Front plate
20	134.100.550	1	Hose ring
21	134.100.570	1	Angle profiled ring
22	930.101.000	1	Locking nut assembly
23	067.200.105	2	Flat greaser AM10x1 DIN 3404
24	134.100.530	2	Flat greaser
25	134.710.120	1	Collar bush
26	061.006.303	1	O-ring seal OR63,09x3,53
27	140.750.210	1	Bush
28	140.750.190	1	Cover
29	046.006.010	2	Washer 6,4 DIN 125
30	048.306.065	2	Grooved drive stud 6x10 DIN 1476
31	140.750.230	1	Holding rope assembly
32	150.754.000	2	Locating screw cpl.
33	041.008.095	2	Cheese head screw M8x16 DIN 6912
34	150.750.040	1	Tapped plate
35	040.908.115	3	Cheese head screw M8x20 DIN 912
36	045.010.065	4	Nut M10 DIN 934
37	046.110.010	4	Washer 10,5 DIN 125
38	041.110.195	4	Countersunk screw M10x40 DIN 7991
39	066.710.211	4	Bearing

134.751.000

1/1



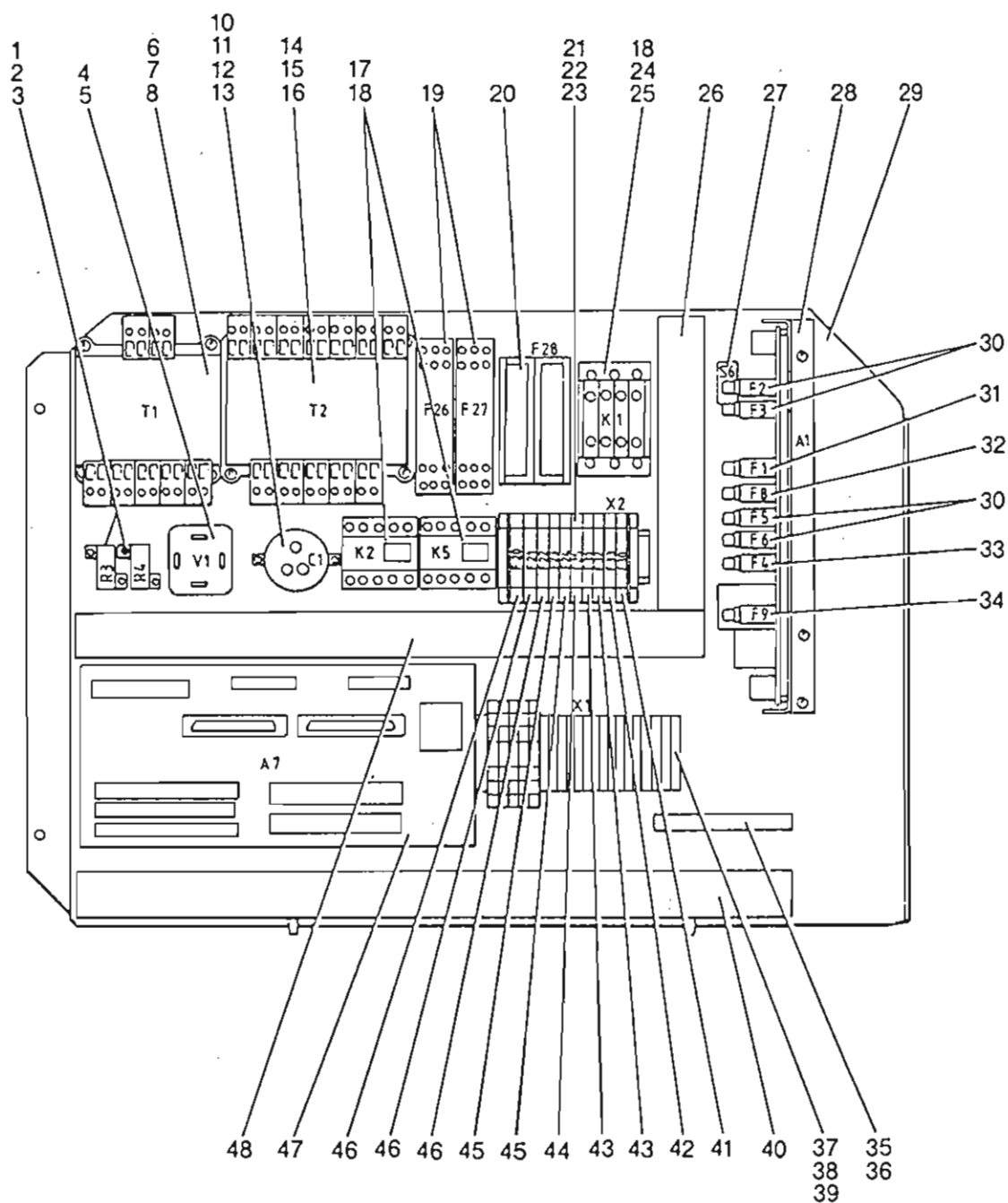
Cartridge assembly**134.751.000**

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Item	Order no.	Quant.	Designation
1	063.060.045	2	Grooved ball bearing 6004 2RS
2	049.320.420	1	Circlip J42x1,75 DIN 472
3	134.751.060	1	Spacing collar
4	049.310.205	1	Circlip A20x1,2 DIN 471
5	134.751.030	1	Synchronizing disk
6	046.512.011	1	Spring washer A12 DIN 127
7	045.112.075	1	Hexagonal nut M12x1,5 DIN 439
8	049.203.540	1	Key 3x5 DIN 6888
9	134.751.020	1	Shaft
10	134.751.010	1	Housing
11	090.713.402	1	Pressure spring
12	061.103.005	1	Rotary shaft seal 30x42x7 AB-NBR-V2A-SF
13	134.751.040	1	Gear clutch
14	134.751.050	1	Disc
15	061.001.502	1	O-ring seal OR15,3-2,4
16	041.105.095	1	Countersunk screw M5x16 DIN 7991
17	061.001.301	1	O-ring seal OR13-3

135.850.001

1/2



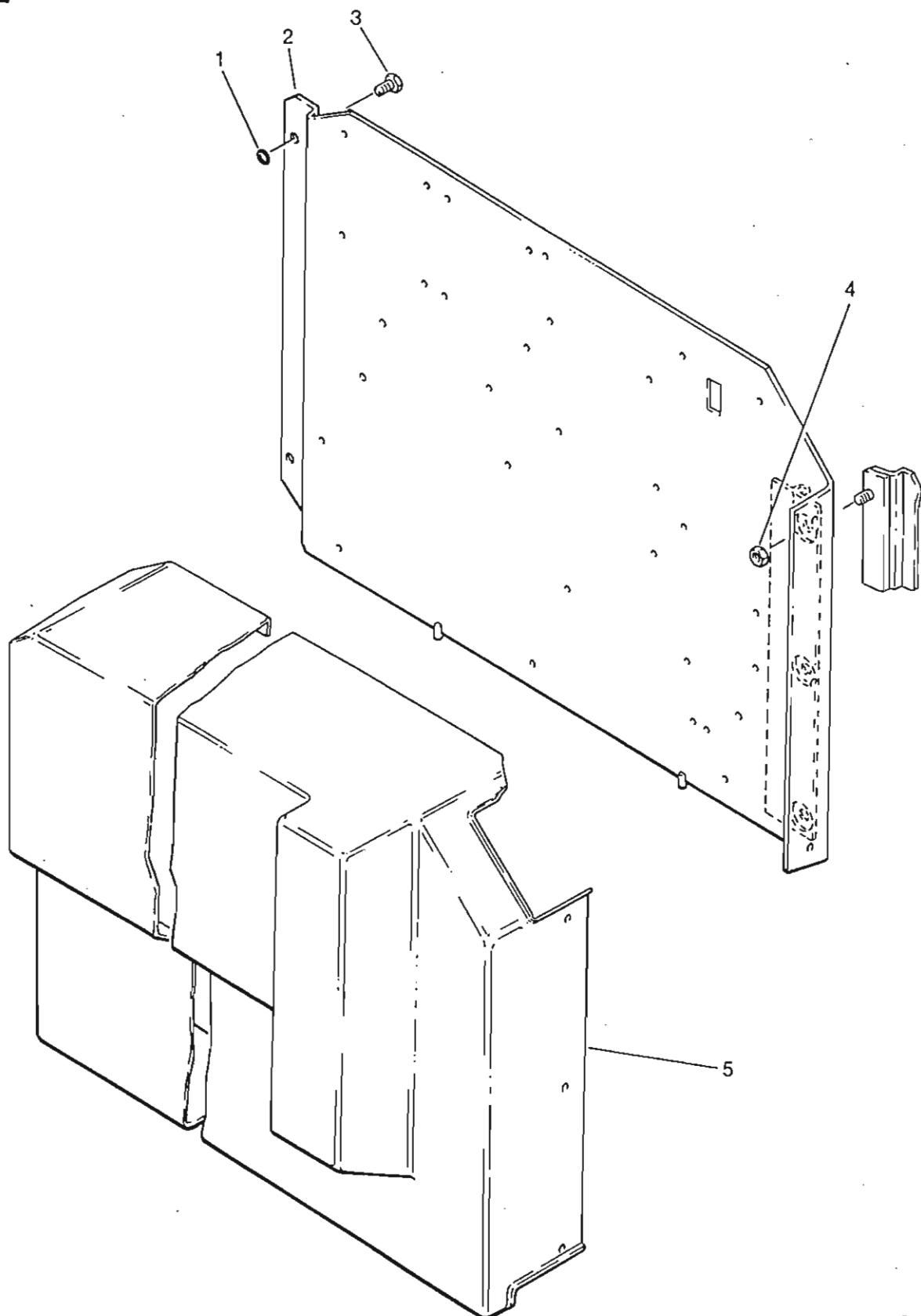
Panel cpl.
135.850.001

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Item	Order no.	Quant.	Designation
1	072.800.005	2	Resistance 25W, 18R (R3, R4)
2	041.603.025	4	Screw M3x5
3	046.603.121	4	Washer J3,2
4	073.060.012	1	Bridge rectifier
5	041.604.112	1	Screw M4x20 DIN 84
6	073.207.085	1	Power transformer (T1)
7	041.605.050	4	Screw M5x10 DIN 84
8	046.005.010	4	Washer 5,3 DIN 125
9			
10	073.163.045	1	Capacitor (C5)
11	073.163.047	1	Clamp
12	041.604.045	2	Screw M4x8 DIN 84
13	046.604.120	2	Washer J4,3 DIN 6798
14	073.207.086	1	Control transformer (T2)
15	041.605.050	4	Screw M5x10 DIN 84
16	046.005.010	4	Washer 5,3 DIN 125
17	072.060.047	2	Relay (K2, K5)
18	073.060.050	3	Quenching unit (K1, K2, K5)
19	072.160.104	2	Thermistor motor-protection
20	071.405.053	1	Control device (F28)
21	135.850.201	1	Fuse block (X2)
22	041.604.045	3	Screw M4x8
23	046.604.120	3	Washer J4,3
24	072.060.052	1	Relay (K1)
25	072.060.054	4	Control switch (for K1)
26	134.850.301	1	Cable duct
27	071.038.001	1	Rocker switch (S6)
28	871.380.002	1	Power supply board
29	135.851.001	1	Mounting plate panel assembly
30	074.139.005	4	Fuse T0,315A (F2, F3, F5, F6)
31	074.187.014	2	Fuse F3,15A (F1, F50)
32	074.187.015	2	Fuse FF3,15A (F8, F51)
33	074.187.024	1	Fuse F 0,5A (F4)
34	074.113.011	1	Fuse T2A (F9)
35	075.060.004	1	Middle conductor bar
36	041.603.065	2	Screw M3x12 DIN 84
37	135.850.101	1	Connecting strip X1
38	041.604.045	3	Screw M4x8
39	046.604.120	3	Washer J4,3
40	135.850.501	1	Cable duct
41	074.187.023	1	Fuse T0,4A (F30)
42	074.187.016	1	Fuse T5,15A (F33)
43	074.187.022	2	Fuse M2A 500V (F31, F32)
44	074.187.021	1	Fuse T1,6A (F25)
45	074.187.017	2	Fuse M2,5A 500V (F23, F24)
46	074.139.028	3	Fuse M6,3A 500V (F20, F21,F22)
47	871.390.003	1	Connecting board
48	134.850.401	1	Cable duct

135.850.001

2/2



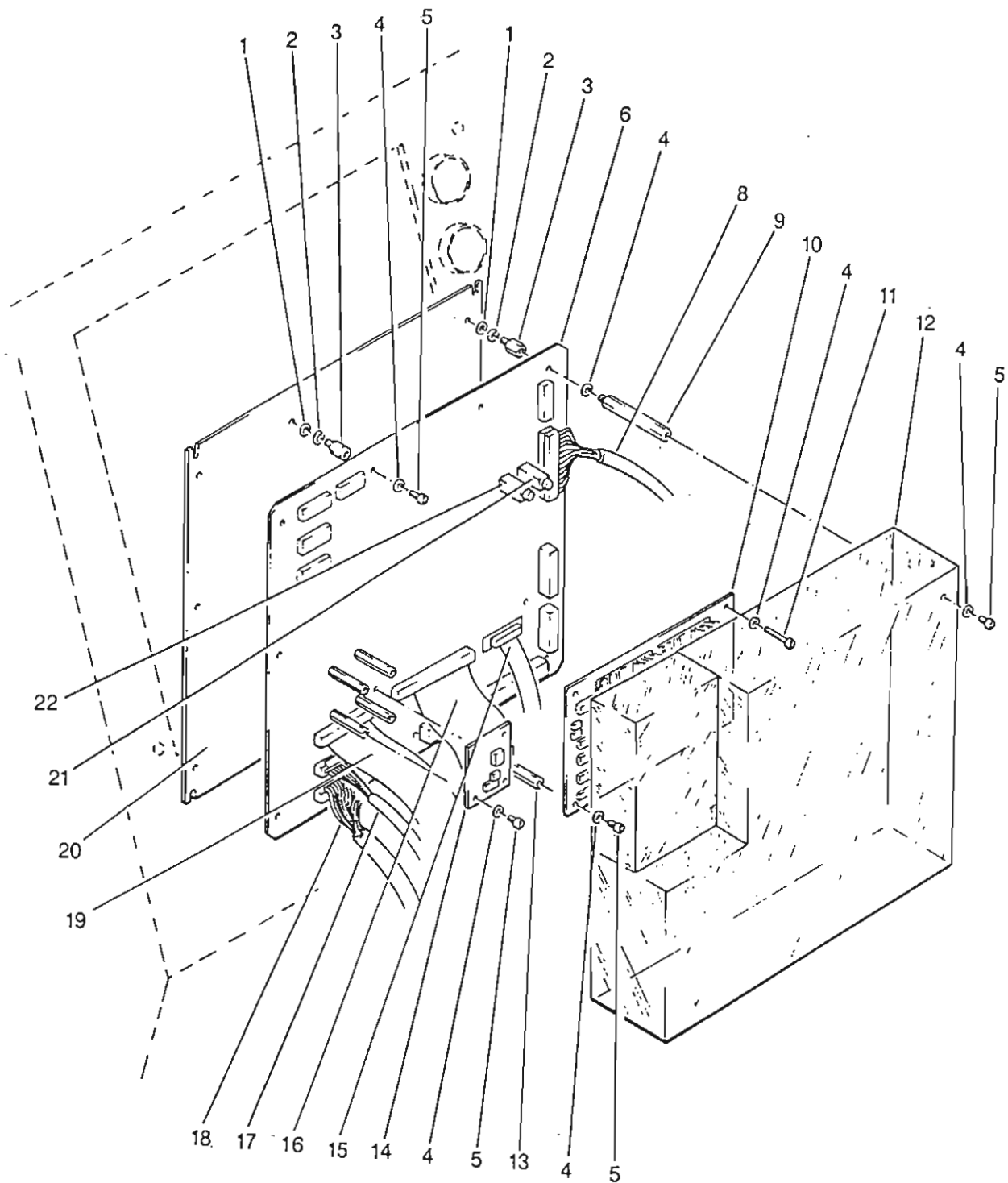
Panel cpl.**135.850.001**

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Item	Order no.	Quant.	Designation
1	061.000.401	2	O-ring seal OR4,3-2,4
2	135.851.001	1	Panel mounting plate assembly
3	040.205.065	2	Hexagonal head screw M5x12 DIN 933
4	045.006.065	3	Hexagonal nut M6 DIN 934
5	134.852.001	1	Hood

871.370.001

1/1



Power electronics cpl.

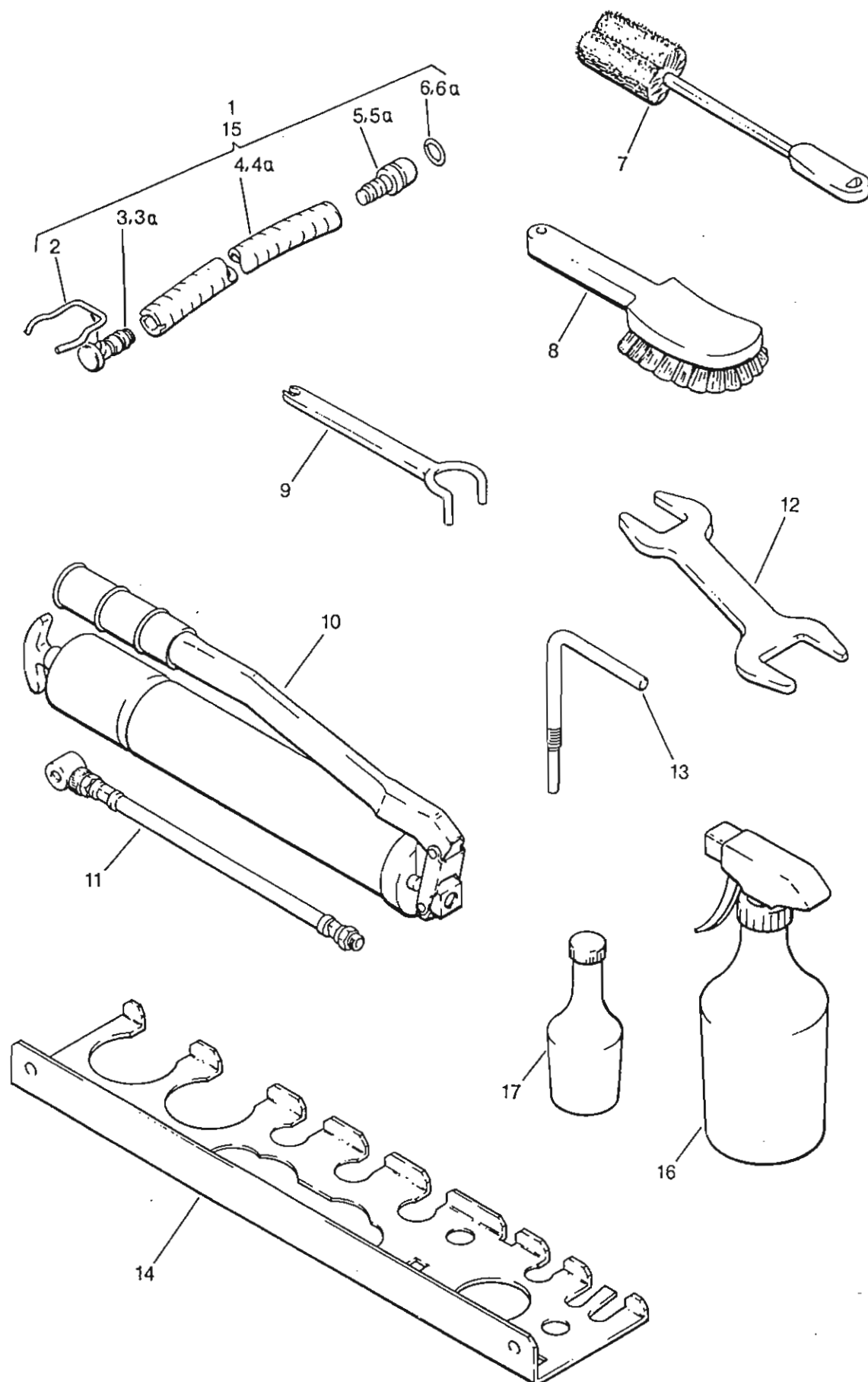
871.370.001

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Item	Order no.	Quant.	Designation
1	046.003.020	26	Washer B3,2
2	046.503.015	26	Spring washer B3
3	070.922.002	12	Spacing bolt M3x5
4	046.003.020	12	Washer B3,2
5	041.603.025	7	Cheese-head screw M3x5
6	871.371.004	1	Printed circuit board power electronics
8	134.871.901	1	Cable X11 connecting block
9	070.922.031	1	Spacing bolt M3x60
10	871.440.003	1	Proportional valve fader
11	041.602.135	2	Screw M2,5x25
12	871.370.701	1	Cover for power electronics
13	070.922.030	1	Spacing bolt M3x28
14	871.460.000	1	Code printed circuit board
15	140.820.101	1	Cable X8
16	140.820.301	1	Cable X10
17	140.870.202	1	Cable X2 connecting block
18	140.870.102	1	Cable X1 connecting block
19	140.820.201	1	Cable X9
20	871.374.001	1	Mounting plate for power electronics cpl.
21	074.187.014	1	Fuse F3, 15A (F50)
22	074.187.015	1	Fuse FF3, 15A (F51)

134.020.000

1/1



Tools and accessories

134.020.000

page 1 of 1

Item	Order no.	Quant.	Designation
1	134.021.000	1	Lever sausage stopper assembly * (includes Pos. 2, 3, 4, 5, 6)
2	134.021.030	1	Spring
3	134.021.040	1	Holder
3a	134.021.041	1	Holder
4	134.021.020	1	Hose
4a	134.021.021	1	Hose
5	134.021.010	1	Plug
5a	134.021.011	1	Plug
6	061.001.301	1	O-ring seal OR13x3
6a	061.001.501	1	O-ring seal OR15x2,5
7	096.013.401	1	Nozzle brush
8	096.014.002	1	Cleaning brush
9	892.031.000	1	Wrench for guard ring
10	067.064.001	1	Hand-lever grease gun
11	067.064.002	1	High-pressure hose 300 lg.
12	134.030.010	1	Combination spanner
13	134.030.060	1	Rotor jack
14	134.031.000	1	Tool plate
15	134.021.001	1	Lever sausage stopper assembly ** (includes Pos. 2, 3a, 4a, 5a, 6a)
16	067.287.501	1	Industrial sprayer f. 750 ml
17	052.001.021	750ml	Bone oil (white oil)

* Only for machines with housing
134.200.020 (with adapter 134.200.070)

** Only for machines with housing
134.200.021 a.134.200.022 (without adapter)

Expandable material

page 1 of 1

Item	Order no.	Quant.	Designation	Fitting position / Application
1	052.001.002	-	Oil Shell Tellus C32	Gear
2	052.001.010	-	Oil Shell Tellus T46	Hydraulic tank,
	052.001.003	-	Oil Shell Tellus C46	vakuum pump
3	052.008.026	-	White heavy-duty grease 400g cartridge (Food fat)	Sealing infeed scroll, sealing feed element
4				
5	096.090.004	-	Air filter cartridge Pico C75	Vacuum system Suction pipe
6	093.913.402	-	Return filter cartridge H814	Hydraulic system
7	126.550.000	-	Float valve	Vacuum sight glass
8	126.501.002	-	Sieve	for float valve
9	066.404.201	-	Toothed belt 20AT5/420	Linking drive
10	134.510.040	-	Hose ring	Sealing vacuum sight glass
11	061.019.501	-	O-ring seal OR195-5	Element cover
12	074.187.014	-	Fuse F 3,15A F1	Power supply
13	074.139.005	-	Fuse T 0,315A F2, F3, F5, F6	Power supply
14	074.187.024	-	Fuse F 0,315A F4	Power supply
15	074.187.015	-	Fuse FF 3,15A F8	Power supply
16	074.113.011	-	Fuse T 2A F9	Power supply
17	074.187.017	-	Fuse M 2,5A F23, F24	Panel
18	074.187.021	-	Fuse M 2,5A F25	Panel
19	074.187.023	-	Fuse T 0,4A F30	Panel
20	074.187.022	-	Fuse M 2A F31, F32	Panel
21	074.187.016	-	Fuse F 3,15A F33	Panel
22	074.187.014	-	Fuse F 3,15A F50	Power electronics
23	074.187.015	-	Fuse F 3,15A F51	Power electronics
24	074.139.008	-	Fuse M 6,3A F20, F21, F22	Panel





Lifting and tipping device type 896 for ROBBY-2

Lifting and tipping device type 896 for ROBBY-2

Spare parts list

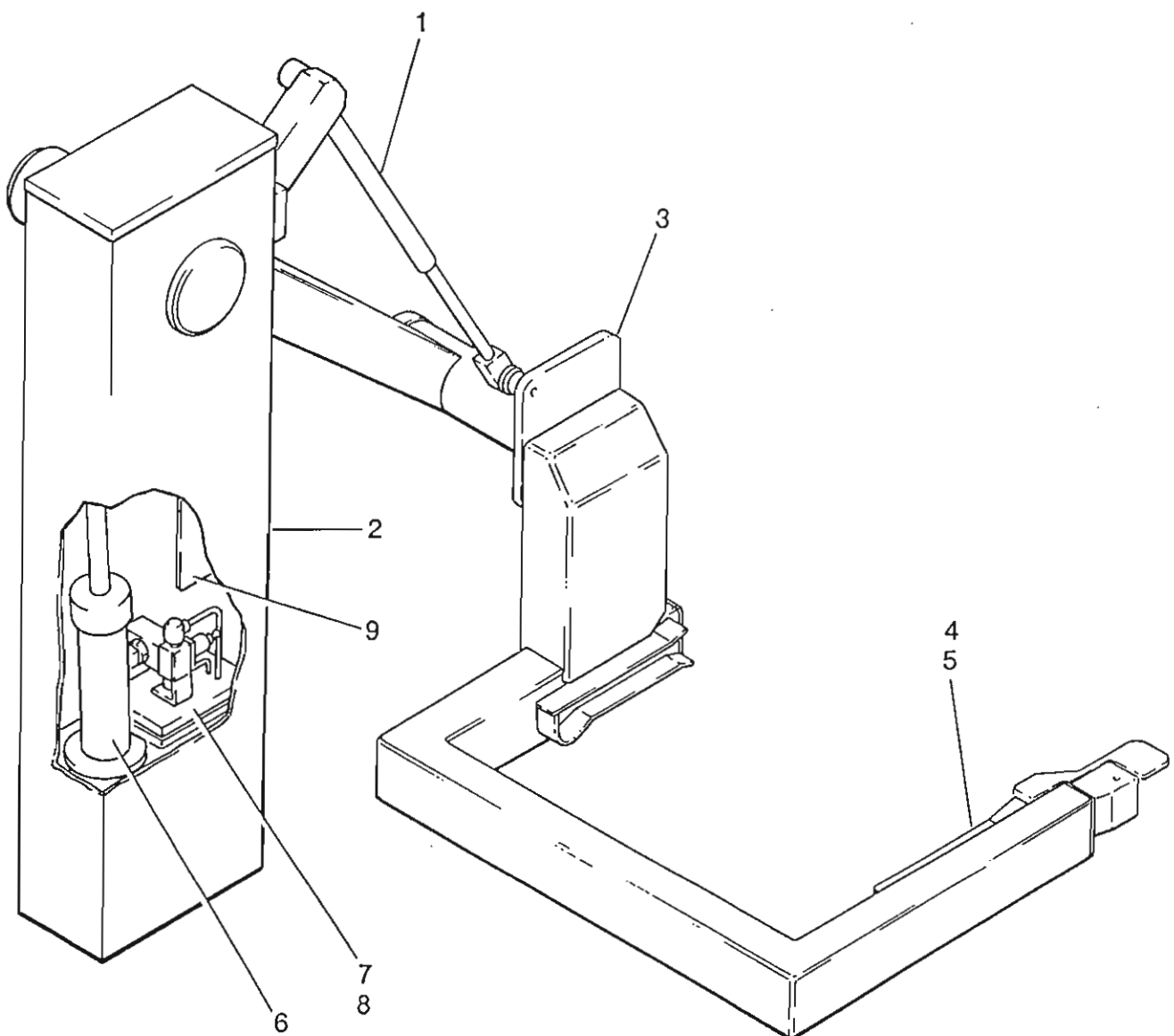
**valid from machine no. 896.0000 on
January 1995**

When ordering spare parts please always give the machine number for which the spare part is required. Also give the order-no., the quantity and the designation of the required spare part.

Order example:

Machine no.		896.xxxx
1 piece	Cone	896.380.040
2 piece	Grooved ball bearing 6003-2RS	063.060.035

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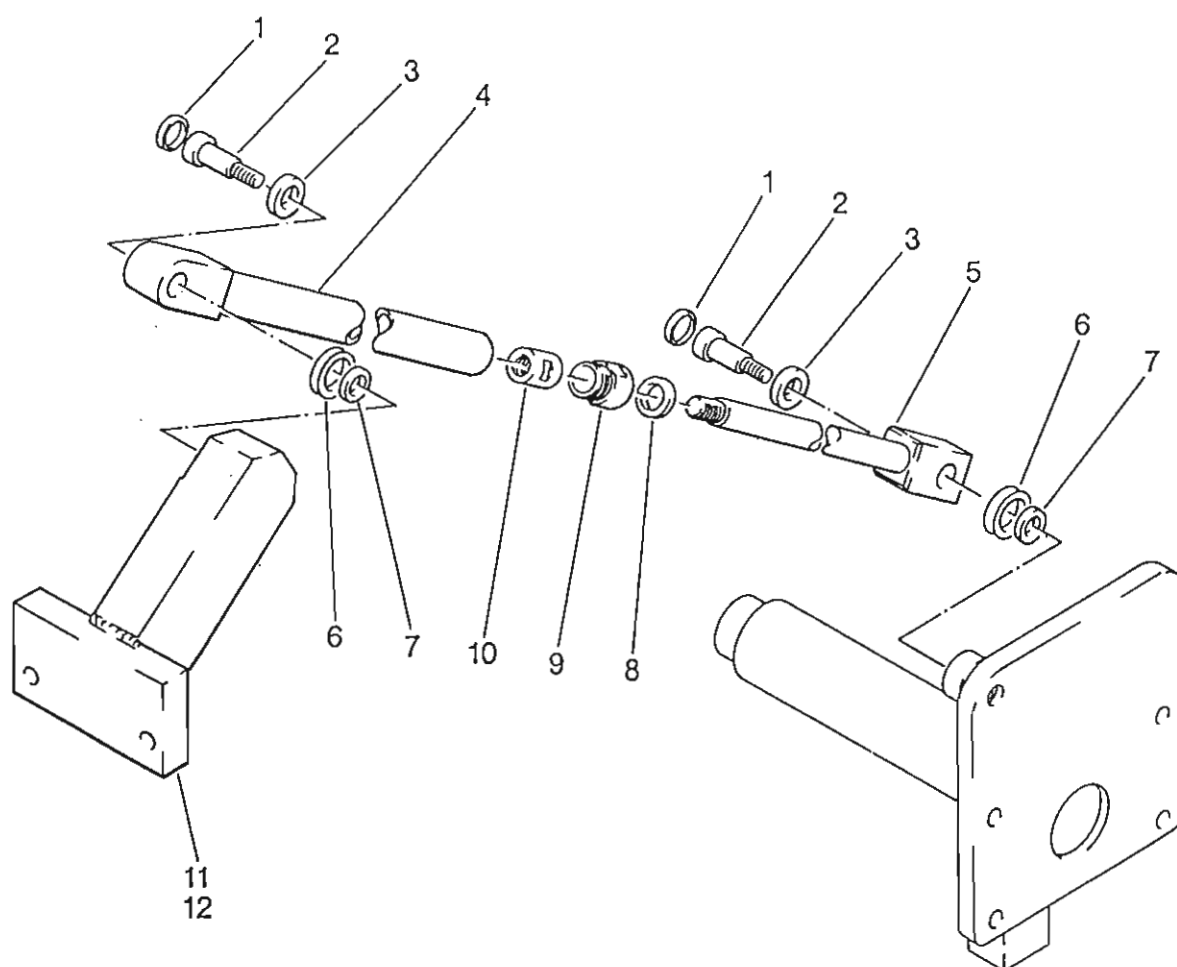
Lifting and tipping device type 896 for ROBBY-2

TABLE OF CONTENTS

Page	Group no.	Designation	Dimension of trolley	
			120l	200l
1	896.050.002	Tipping rod assembly	X	X
2	896.100.004	Drive housing cpl.	X	X
3	896.200.003	Tipping arm cpl.		X
-	896.200.004	Tipping arm cpl.	X	
4	140.440.003	Trolley lifter, side entrance		X
-	140.440.005	Trolley lifter, side entrance	X	
5	140.440.006	Trolley lifter, rear entrance		X
-	140.440.007	Trolley lifter, rear entrance	X	
6	896.400.000	Cylinder assembly	X	X
7	896.500.000	Hydraulic system cpl.	X	X
8	896.870.201	Hydraulic motor pump	X	X
9	896.850.001	Panel cpl.	X	X

896.050.002

1/1





Lifting and tipping device type 896 for ROBBY-2

1

**Tipping rod assembly
for 230l-hopper and 200l-trolley**

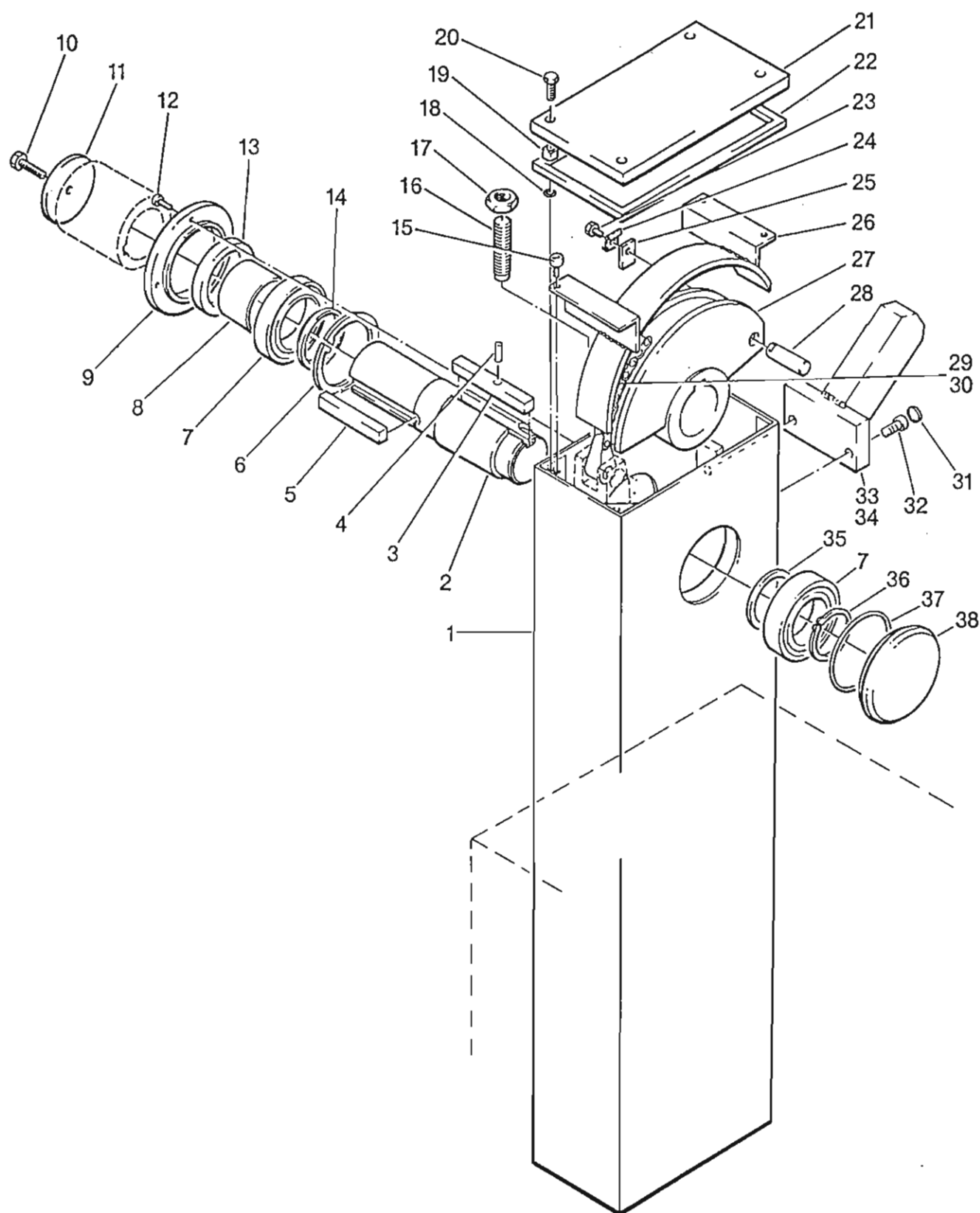
896.050.002

Page 1 of 1

Item	Order no.	Quant.	Designation
1	060.302.601	2	Cap for boring ø26
2	041.512.155	2	Dowel screw 16x30/M12
3	896.000.110	2	Washer
4	896.051.002	1	Outer rod assembly
5	896.052.001	1	Inner rod assembly
6	857.000.155	2	Sealing ring
7	857.000.145	2	Washer
8	060.102.001	1	Scraper
9	857.050.045	1	Stop bushing
10	896.050.030	1	Threaded bushing
11	896.270.001	1	Support for tilting rod (150l)
12	896.270.000	1	Support for tilting rod (230l)

896.100.004

1/2



Drive housing cpl.

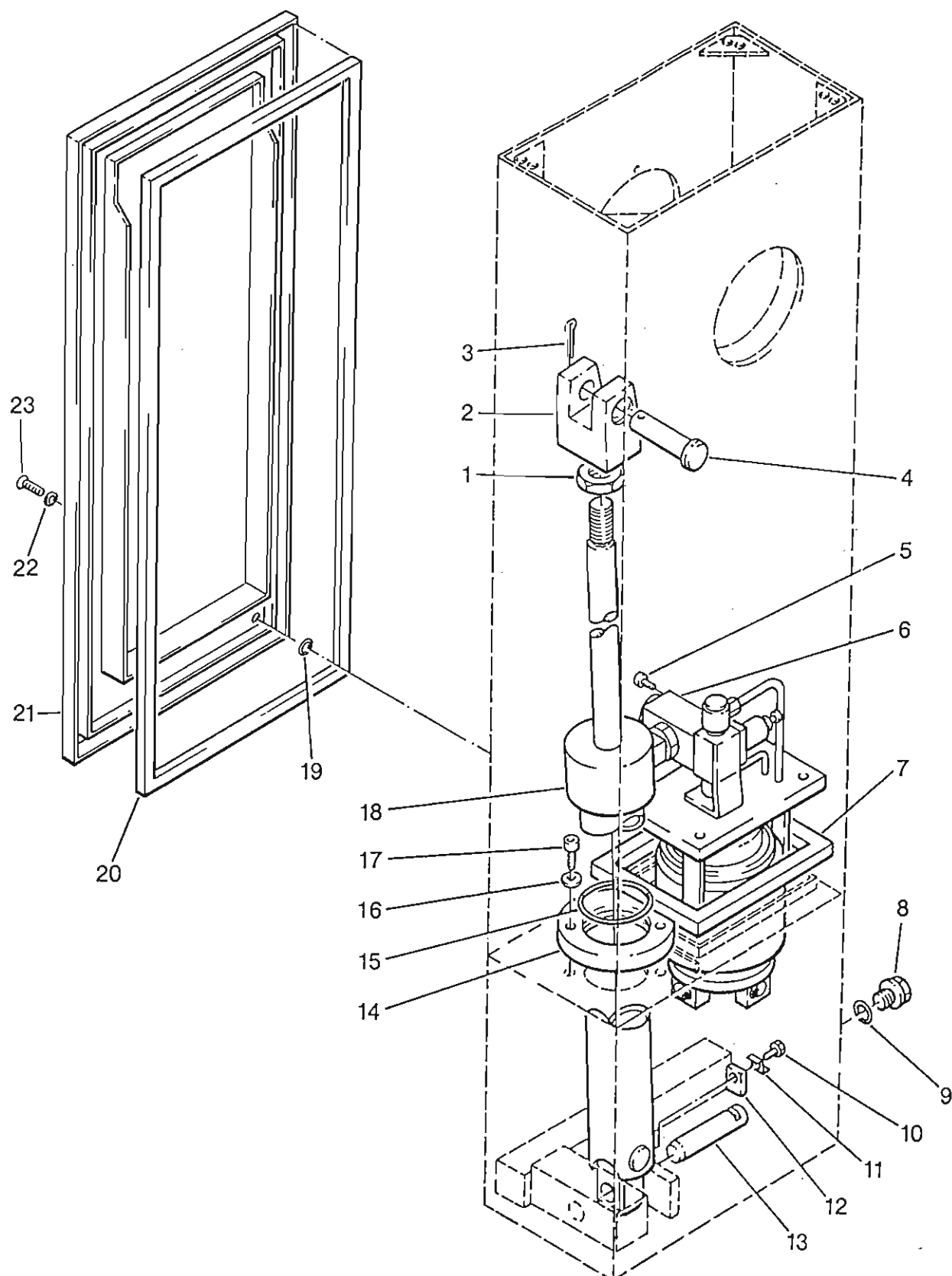
896.100.004

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Item	Order no.	Quant.	Designation
1	896.110.004	1	Housing assembly
2	896.100.164	1	Shaft
3	896.100.181	1	Key
4	047.708.140	1	Cylindrical pin 8m6x24
5	857.100.260	1	Key
6	049.321.150	1	Circlip 115x4 DIN 472
7	063.060.155	2	Groove ball bearing 6015-2RS DIN 625
8	896.100.194	1	Spacing collar
9	896.100.270	1	Ring
10	040.216.215	1	Hexagonal head screw M16x45 DIN933
11	111.500.130	1	Washer
12	040.906.095	4	Cheese head screw M6x16 DIN 912
13	061.108.502	1	Shaft seal 85x105x13 BA
14	896.100.201	1	Spacing collar
15	040.208.065	4	Hexagonal head screw M8x12
16	044.220.310	2	Hex-socket set screw M20x90 DIN 915
17	045.020.065	2	Hexagonal nut M20 DIN 934
18	061.000.601	4	O-ring OR6,3x2,4
19	061.700.701	4	Rectangular profile ring
20	040.208.155	4	Hexagonal head screw M8x30
21	896.120.000	1	Cover assembly upper part
22	061.201.202	1	Sealing profile 12x10x1030
23	040.206.060	1	Hexagonal head screw M6x12 DIN 933
24	046.706.010	1	Locking plate 6,4 DIN 93
25	896.100.430	1	Axle bracket
26	896.150.001	1	Chain guide assembly
27	896.180.002	1	Pulley assembly
28	896.100.070	1	Bolt
29	052.008.021	0,1kg	Molykote MKL3 for flyer chain
30	096.089.602	1	Flyer chain 8x8, p=3/4" Order.-No. 14 000 54
31	060.302.001	2	Cap for boring ø20
32	040.912.135	2	Ceese head screw M12x25
33	896.270.000	1	Support for tilting rod (200l-Wagen)
34	896.270.001	1	Support for tilting rod (120l-Wagen)
35	896.100.211	1	Spacing collar
36	049.310.750	1	Circlip 75x2,5 DIN 471
37	061.010.801	1	O-ring OR108x3
38	896.100.330	1	Cover

896.100.004

2/2



Drive housing cpl.

896.100.004

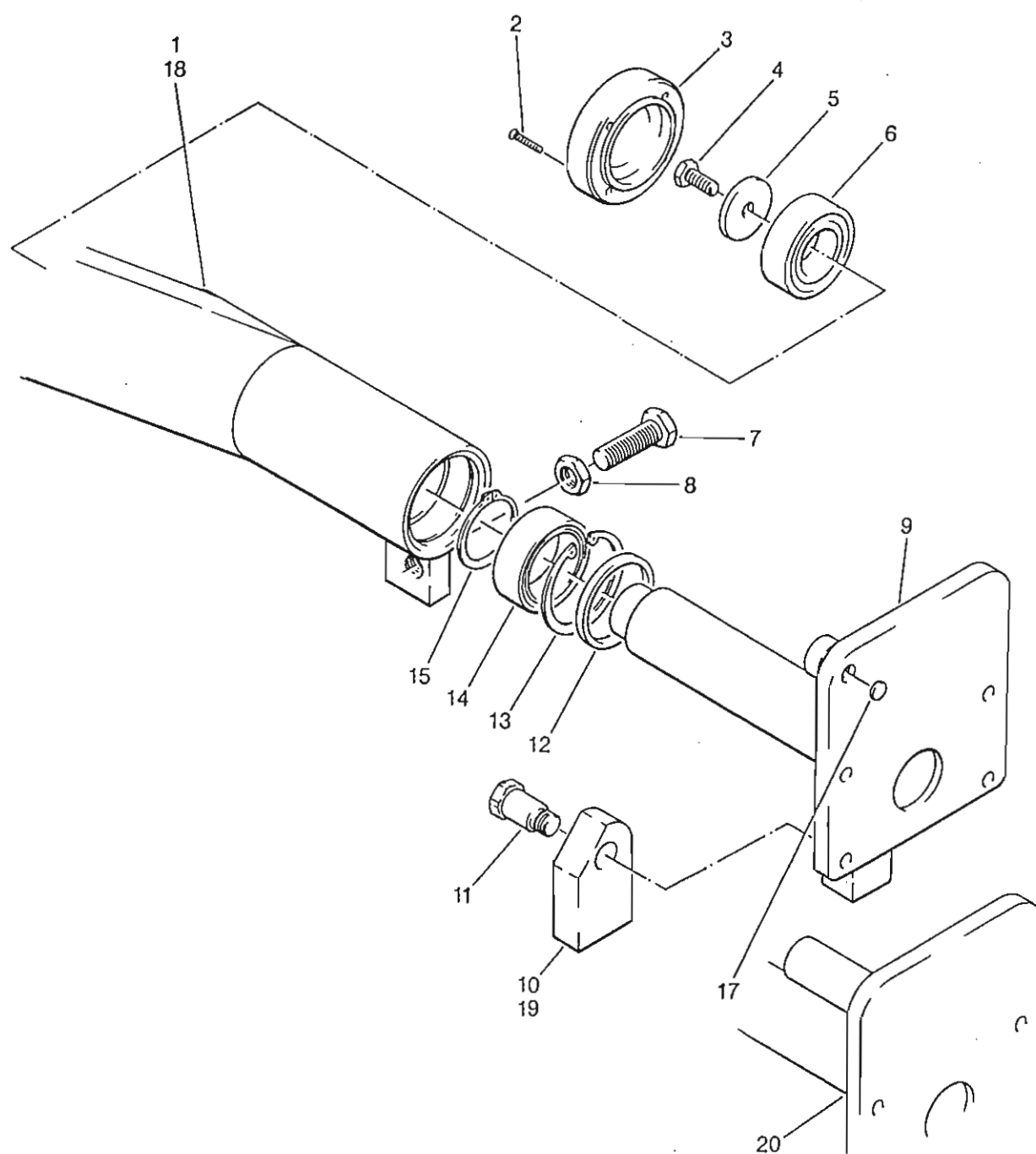
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Item	Order no.	Quant.	Designation
1	045.124.060	1	Hexagonal nut M24 DIN 963
2	896.100.104	1	Pivot arm
3	048.505.170	1	Forelock 5x30 DIN 94
4	047.118.276	1	Bolt with head 18h 11x70x60 DIN 1434
5	040.906.130	2	Cheese head screw M6x25 DIN 912
6	896.500.000	1	Pumping set cpl.
7	061.201.202	1	Sealing profile 12x10x730 lg
8	043.022.215	1	Plug screw M22x1,5
9	061.502.201	1	Seal C22x27 DIN 7603
10	040.206.060	1	Hexagonal head screw M6x12 DIN 933
11	046.706.010	1	Locking plate 6,4 DIN 93
12	896.100.430	1	Axle bracket
13	896.100.420	1	Bolt
14	896.100.381	1	Ring
15	061.006.401	1	O-ring OR64,2x5,7
16	046.106.020	2	Washer B6,4 DIN 9021
17	040.906.110	2	Cheese head screw M6x20 DIN 912
18	896.400.002	1	Cylinder assembly
19	061.000.601	6	O-ring OR6,3x2,4
20	061.201.202	1	Sealing profile 12x10x2030
21	896.130.000	1	Cover assembly front part
22	067.110.071	6	Plastic washer 7,5x15x1
23	042.108.115	6	Countersunk screw M8x20

896.200.003

896.200.004

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Tipping arm cpl. for 230l-hopper and 200l-trolley

896.200.003

Tipping arm cpl. for 150l-hopper and 120l-trolley

896.200.004

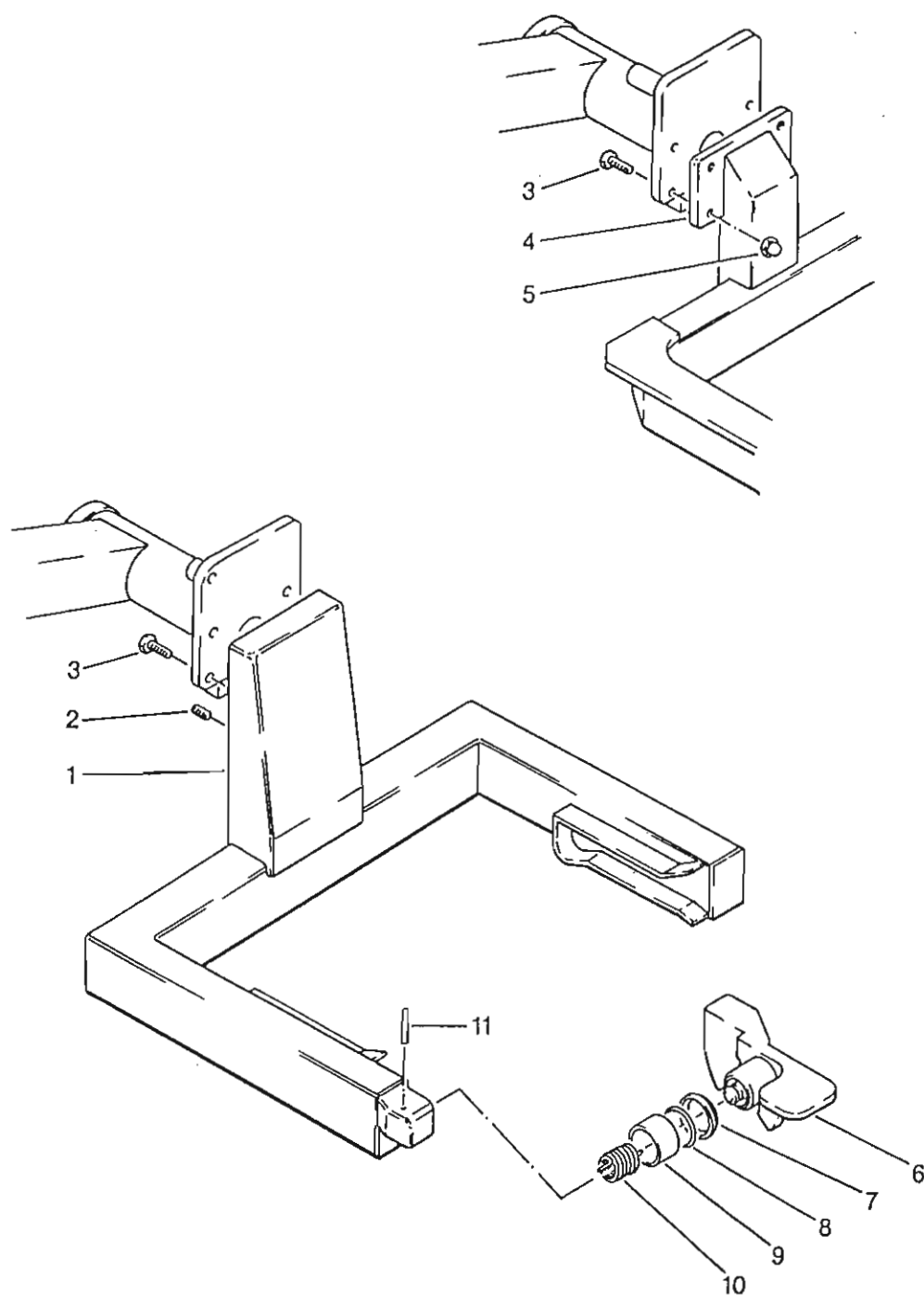
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Item	Order no.	Quant.	Designation
1	896.210.003	1	Tipping arm assembly (230l)
2	042.105.155	4	Oval head countersunk screw M5x30 DIN 964
3	140.420.060	1	Cover
4	040.212.150	1	Hexagonal head screw M12x30 DIN 933
5	111.540.120	1	Washer
6	063.042.091	1	Double row grooved ball bearing 4209
7	040.220.255	1	Hexagonal head screw M20x60 DIN 933
8	045.120.025	1	Hexagonal nut M20 DIN 439
9	896.220.000	1	Bearing bolt assembly (230l)
10	896.200.033	1	Buffer (230l)
11	857.400.025	1	Collar bolt
12	061.107.003	1	Rotary seal 70x85x7 BA
13	049.320.850	1	Circlip J85x3 DIN 472
14	063.449.121	1	Needle bearing NA4912
15	049.720.600	1	Circlip SW 60
16	052.008.001	120g	Gear oil Retinax G
17	060.301.501	1	Cap for boring ø15
18	896.210.004	1	Tipping arm assembly (150l)
19	857.400.036	1	Buffer (150l)
20	896.220.001	1	Bearing bolt assembly (150l)

140.440.003

140.440.005

1/1





Lifting and tipping device type 896 for ROBBY-2

4

Trolley hoist cpl., side entrance, 200l-trolley
Trolley hoist cpl., side entrance, 120l-trolley

140.440.003
140.440.005

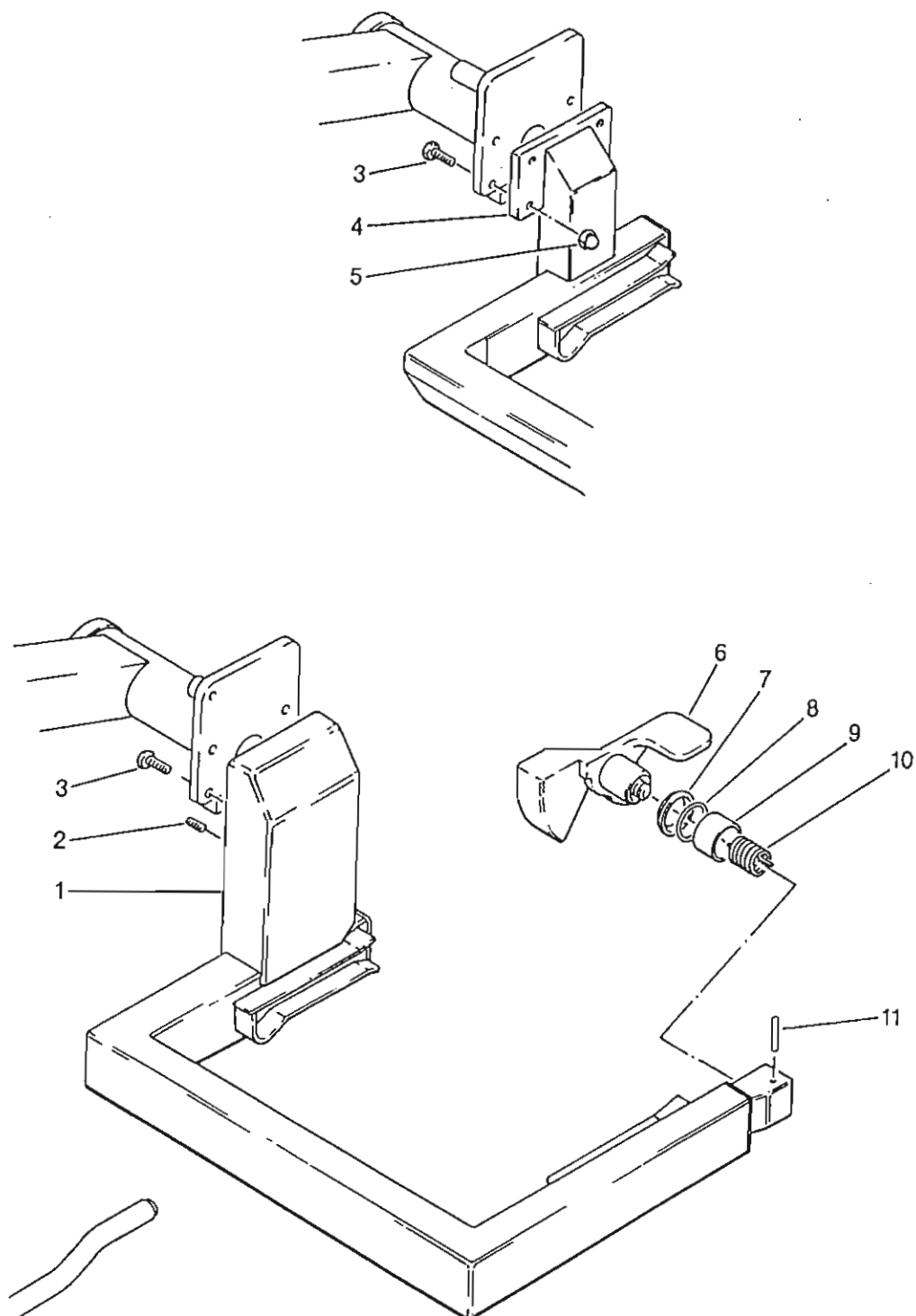
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Item	Order no.	Quant.	Designation
1	140.441.003	1	Trolley hoist assembly (200l)
2	044.012.255	2	Threaded pin M12x25 DIN 913
3	040.212.195	4	Hexagonal head screw M12x40 DIN 933
4	140.441.005	1	Trolley hoist assembly (120l)
5	045.312.065	4	Cap nut M12 DIN 1587
6	140.443.001	1	Locking unit
7	060.104.001	1	Scraper ASOB 40-48-4/7
8	061.004.002	1	O-ring OR40,2x3
9	064.920.404	1	Bushing Permaglide PAP4028P11
10	140.440.100	1	Leg spring
11	047.705.255	1	Cylindrical pin 5m6x60 DIN 7

140.440.006

140.440.007

1/1



Trolley hoist cpl., rear entrance, 200l-trolley
Trolley hoist cpl., rear entrance, 120l-trolley

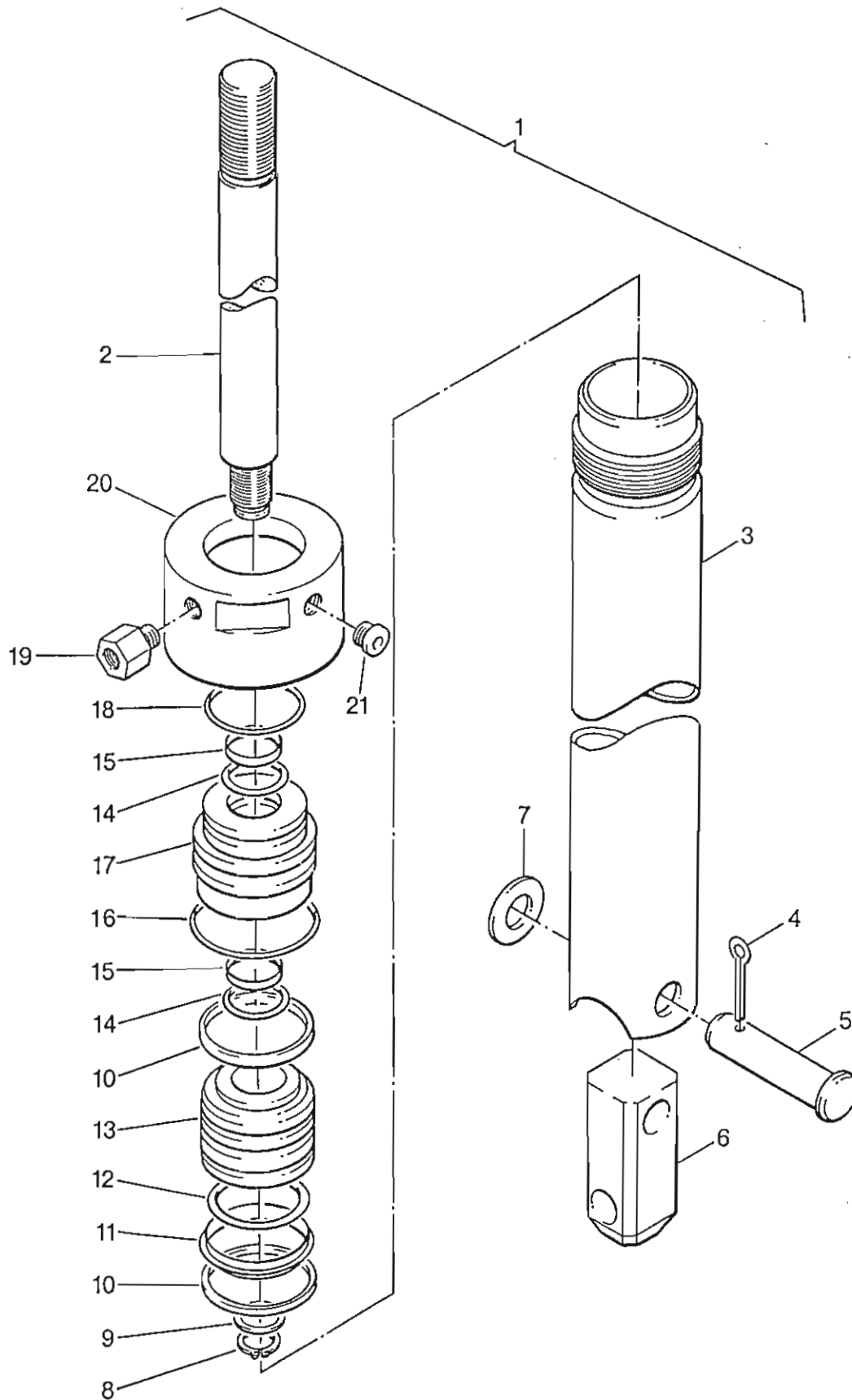
140.440.006
140.440.007

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Item	Order no.	Quant.	Designation
1	140.441.006	1	Trolley hoist assembly (200l)
2	044.012.255	2	Threaded pin M12x25 DIN 913
3	040.212.195	4	Hexagonal head screw M12x40 DIN 933
4	140.441.007	1	Trolley hoist assembly (120l)
5	045.312.065	4	Cap nut M12 DIN 1587
6	140.443.001	1	Locking unit
7	060.104.001	1	Scraper ASOB 40-48-4/7
8	061.004.002	1	O-ring OR40,2x3
9	064.920.404	1	Bushing Permaglide PAP4028P11
10	140.440.100	1	Leg spring
11	047.705.255	1	Cylindrical pin 5m6x60 DIN 7

896.400.002

1/1



Cylinder assembly

896.400.002

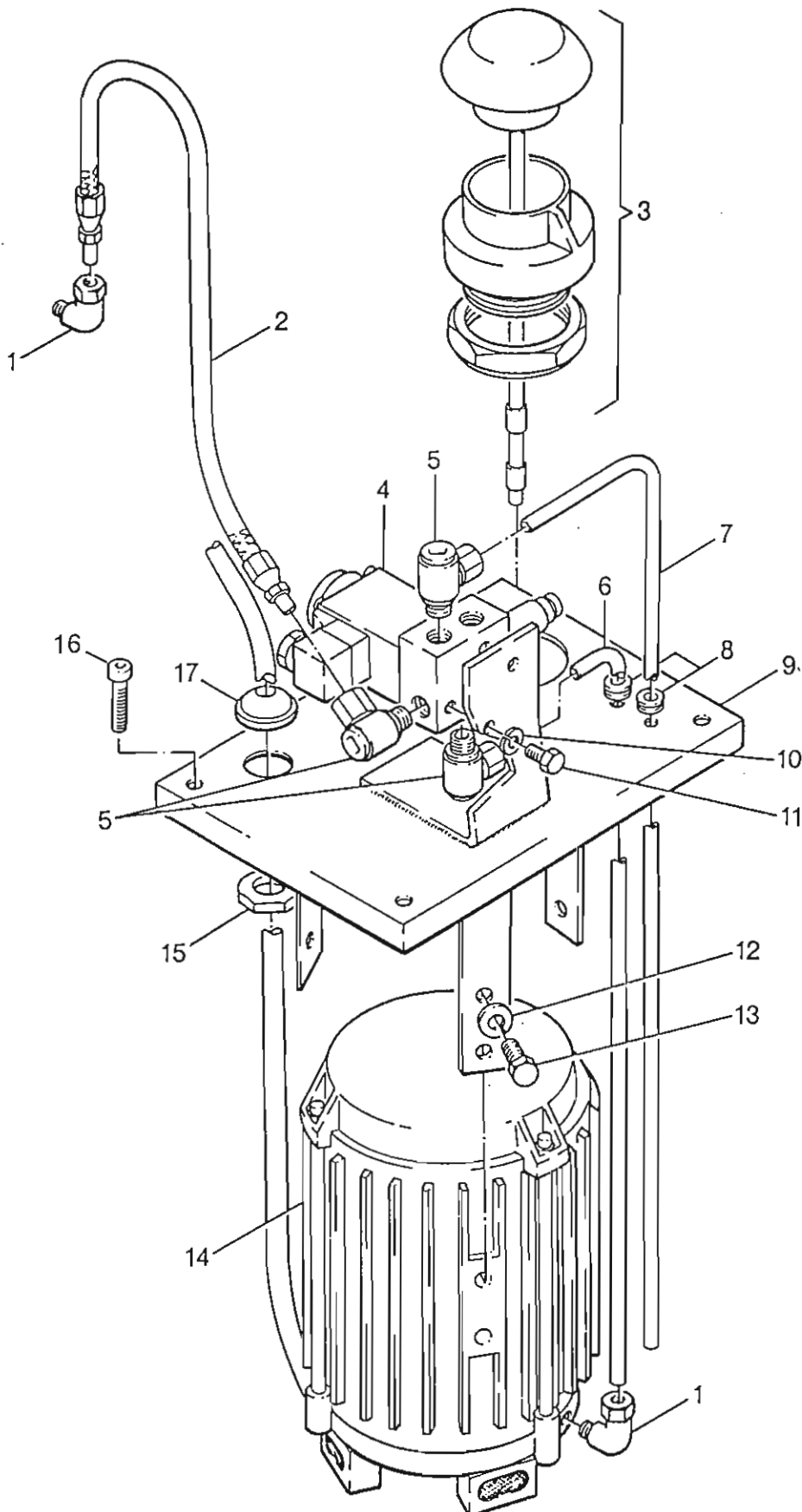
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Item	Order no.	Quant.	Designation
1	896.420.002	1	Pneumatic cylinder cpl.
2	896.420.012	1	Piston rod
3	896.420.122	1	Tube
4	048.505.170	1	Forelock 5x30 DIN 94 *
5	047.118.291	1	Bolt 18h 11x80x72 DIN 1434 *
6	896.400.131	1	Pivot arm *
7	046.019.010	1	Washer A19 DIN 125 *
8	049.310.200	1	Circlip A20x1,2 DIN 471
9	049.750.203	1	Seeger-shim PS 20x28x1
10	067.060.551	2	Guide ring BS5073-0550-A-47
11	060.904.401	1	Gas ring GS55014-0550-46K
12	061.004.402	1	ARP-O-ring-222-8307 OR44,05-3,53
13	896.420.031	1	Piston
14	061.002.801	2	ARP-O-ring-122-8307 OR28,24-2,62
15	060.902.501	2	Gas ring GS55015-0250-46K
16	061.006.202	1	O-ring OR62,2-3
17	896.420.021	1	Bushing
18	061.004.202	1	O-ring OR42,2-3
19	896.400.090	1	Stop plug*
20	896.420.081	1	Nut
21	068.050.603	1	Plug screw VST 3 R 1/8-ED

* not included in item no. 1

896.500.000

1/1



Hydraulic system cpl.

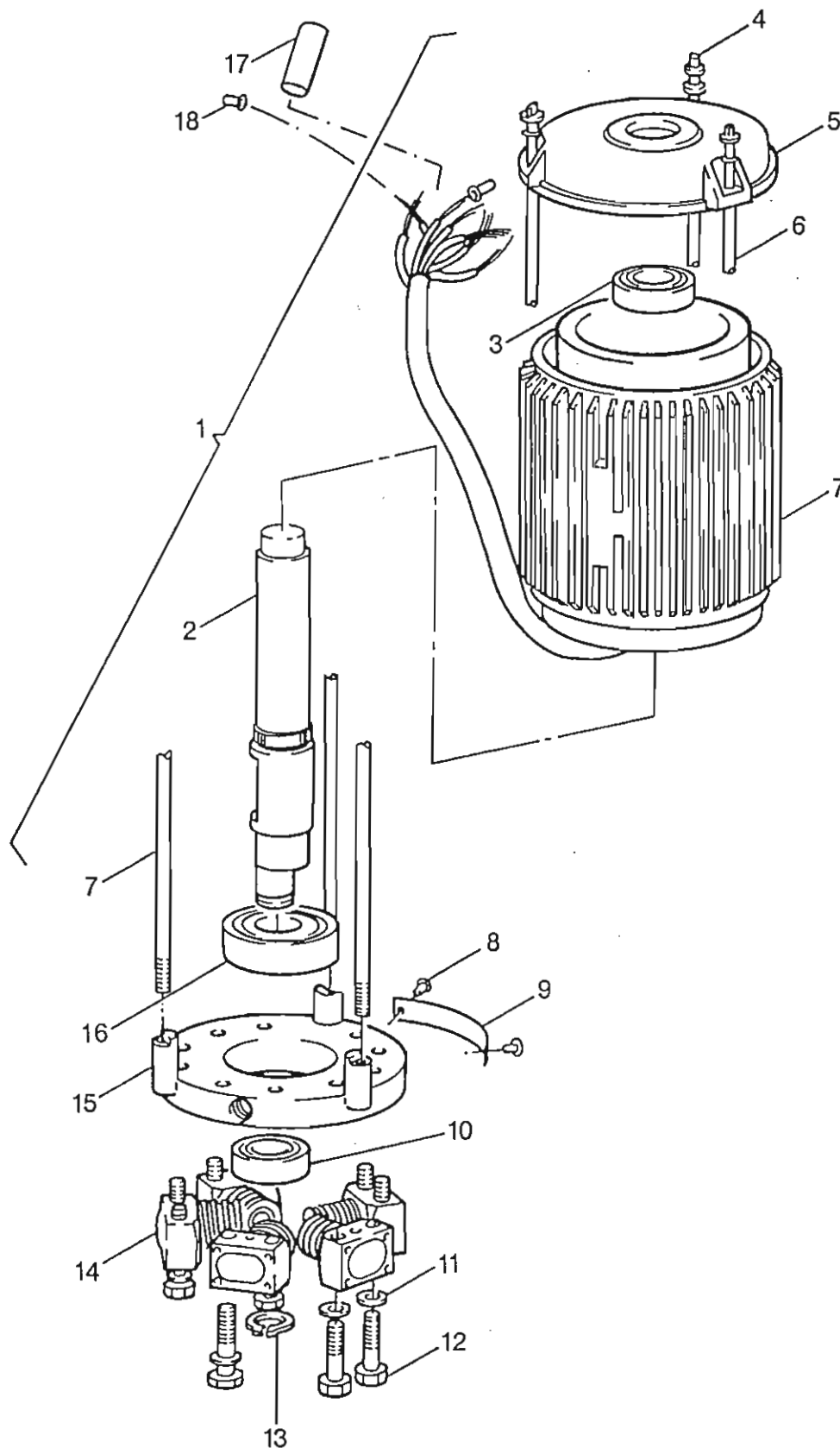
896.500.000

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Item	Order no.	Quant.	Designation
1	067.810.610	2	Angle WE6 - LR (R1/8"Keg.)
2	090.485.501	1	Medium pressure wire braid reinforced hose, Part-No. 2651-4 cpl. assembled, with two medium pressure fittings, Part.-No. 07.004-6-4, 500 lg.
3	896.500.270	1	Filler nozzle with air filter and level plunger
4	090.585.502	1	Solenoid valve block with directional seat, control and pressure control valve WN 1 R1/4 S-165 G24
5	067.860.604	3	Swivelling screw fitting DSVW-6PSR
6	896.500.150	1	Tube 6x1 (compressed air piping)
7	896.500.160	1	Tube 6x1 (return pass)
8	070.840.003	2	Form nozzle D6/27
9	896.510.000	1	Hydraulic cover assembly
10	046.505.017	2	Spring washer A5 DIN 127
11	040.205.045	2	Hexagonal head screw M5x8 DIN 933
12	046.506.021	6	Spring washer A6 DIN 127
13	040.206.060	6	Hexagonal head screw M6x12 DIN 933
14	896.870.103	1	Hydraulic motor pump type MP 12/H1.1 3 Y 380V, 50Hz, 2850 RpM, 0,37kW
15	070.802.048	1	Counter nut Pg 13,5
16	040.906.155	4	Cheese head screw M6x30 DIN 912
17	070.802.053	1	Twist nipple Pg 13,5

896.870.201

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Hydraulic motor pump

896.870.201

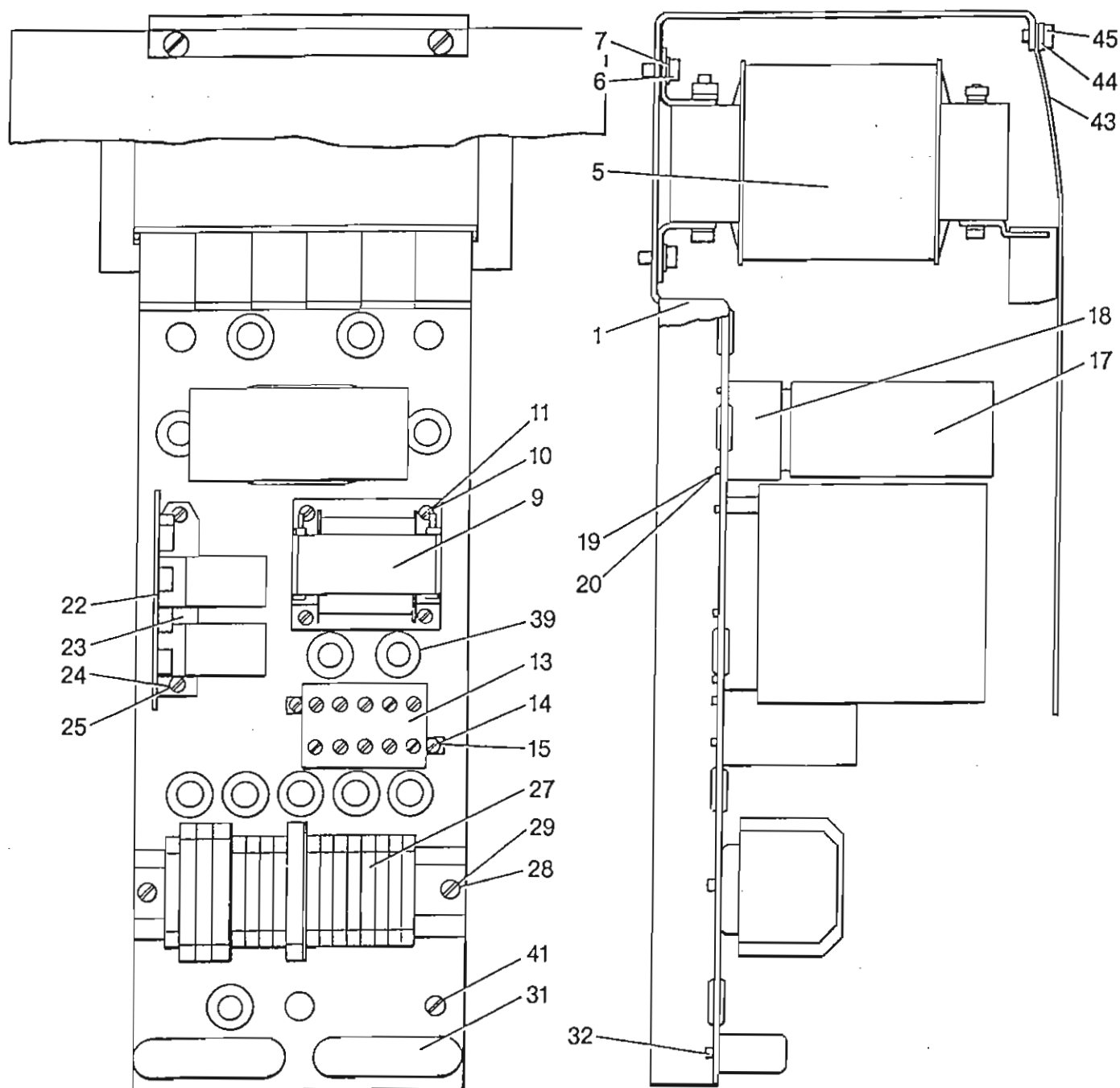
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Item	Order no.	Quant.	Designation
1	090.285.503	1	Hydraulic motor pump type MP12/H1.1 3Y 380V, 50Hz, 2850Rpm, 0,37kW
2	x	1	Shaft 72 01 004
3	x	1	Roller bearing No. 16002
4	046.504.010	3	Spring washer A4 DIN 127
5	x	1	Plug-in type bearing 72 01 021
6	x	3	Screw 72 01 020
7	090.290.201	1	Three phase current motor 2-channel (MP12) 72 01 023 Y 380V, 50 Hz, 0,37kW
8	x	2	Grooved drive stud $\varnothing 2,3 \times 5$ DIN 1476
9	x	1	Rating plate 72 01 009
10	x	1	Roller bearing No. 6300 DIN 625
11	046.506.010	6	Spring washer A6 DIN 127
12	040.106.150	6	Hexagonal head screw M6x30 DIN 931
13	049.310.100	1	Circlip A10x1 DIN 471
14	090.285.504	3	Pump element MPE 8 6550 800/1
15	x	1	Flange 72 01 100
16	x	1	Roller bearing No. 6202 DIN 625
17	070.804.002	1	Flexible insulating tubing Gr. 3*
18	070.885.002	4	Protection sleeve*

x these parts are not deliverable off the shelf.
* not included in item no. 1

896.850.001

1/1



Panel cpl.

896.850.001

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Item	Order no.	Quant.	Designation
1	896.850.101	1	Mounting plate
5	073.207.061	1	Three phase transformer T1, 220/380/415/460 600 VA
6	041.605.050	4	Screw M5x10 DIN 84
7	046.605.050	4	Toothed washer J 5,3 DIN 6798
9	073.207.045	1	Control transformer T2, primary 220/380/415/440, secondary 24V - 15VA
10	041.603.025	4	Screw M3x5 DIN 84
11	046.603.025	4	Toothed washer J 3,2 DIN 6798
13	072.060.039	1	Air gap relay K1, 3TJ 5000 - 0ab0
14	041.603.025	2	Screw M3x5 DIN 84
15	046.603.121	2	Toothed washer J 3,2 DIN 6798
17	072.535.039	1	Time lag relay KA10 117-2-01-2-060-24
18	072.535.027	1	Relay socket Z 342
19	041.603.105	2	Screw M3x18 DIN 84
20	046.603.121	2	Toothed washer J 3,2 DIN 6798
22	855.822.001	1	Switching unit A1
23	075.074.004	1	Socket terminal strip 16pol
24	870.810.301	2	Spacing bolt M3x5
25	041.603.025	2	Screw M3x5 DIN84
27	896.850.201	1	Terminal strip cpl. X1
28	041.604.645	2	Screw M4x8 DIN 84
29	046.604.120	3	Toothed washer J 4,3 DIN 6798
31	070.802.212	2	Double clip Gr. 0
32	041.604.095	2	Screw M4x16 DIN 84
39	070.840.001	12	Form nozzle HV 1203
41	041.604.025	1	Screw M4x5 DIN 84
43	896.850.301	1	Guard plate, rubber 1mm
44	896.850.401	1	Rail
45	041.605.040	2	Screw M5x8 DIN 84

