

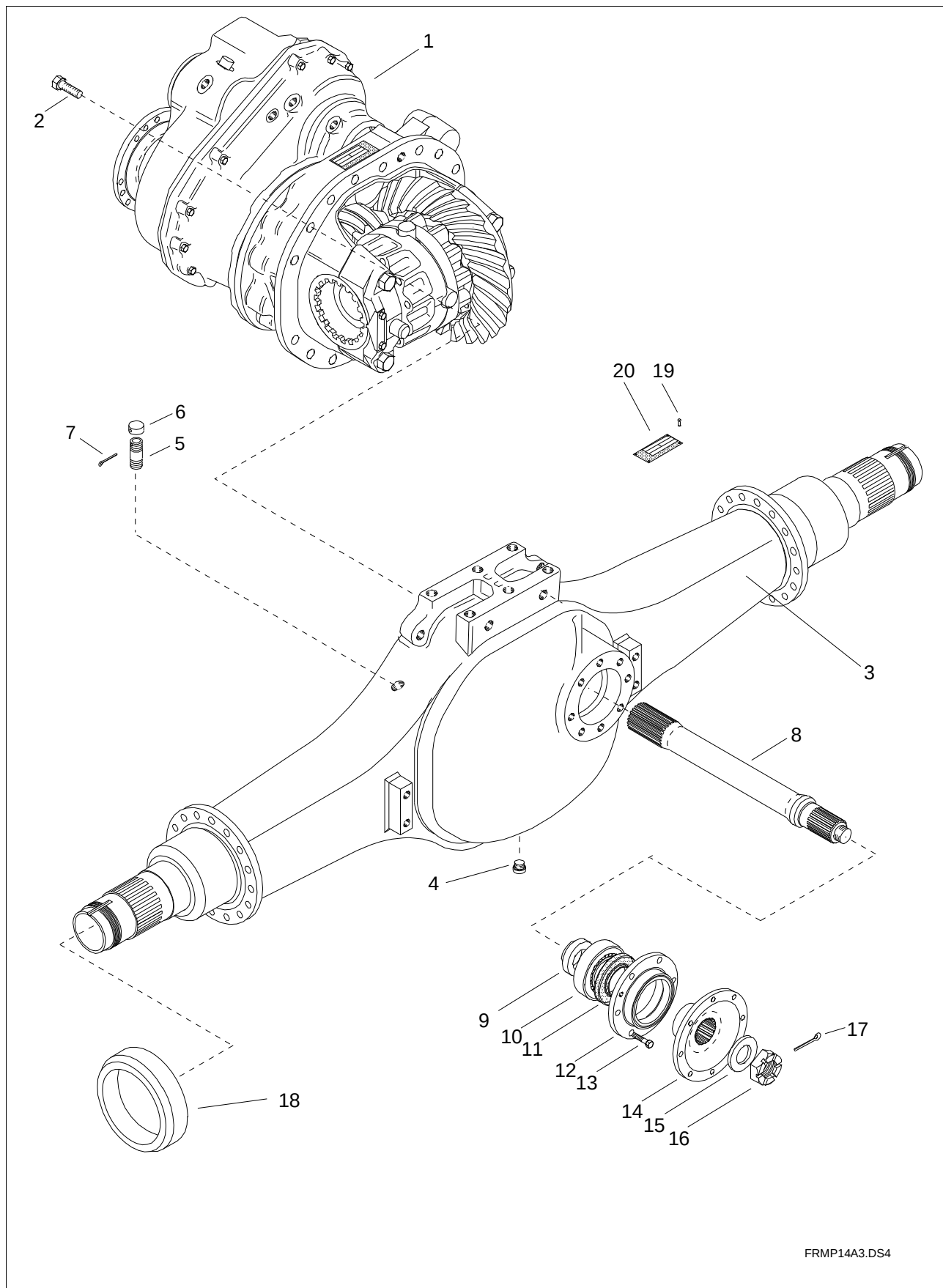
SISU AXLES

SPARE PARTS BOOK

**Foremost Tandem Axle
FRMP-14-S**

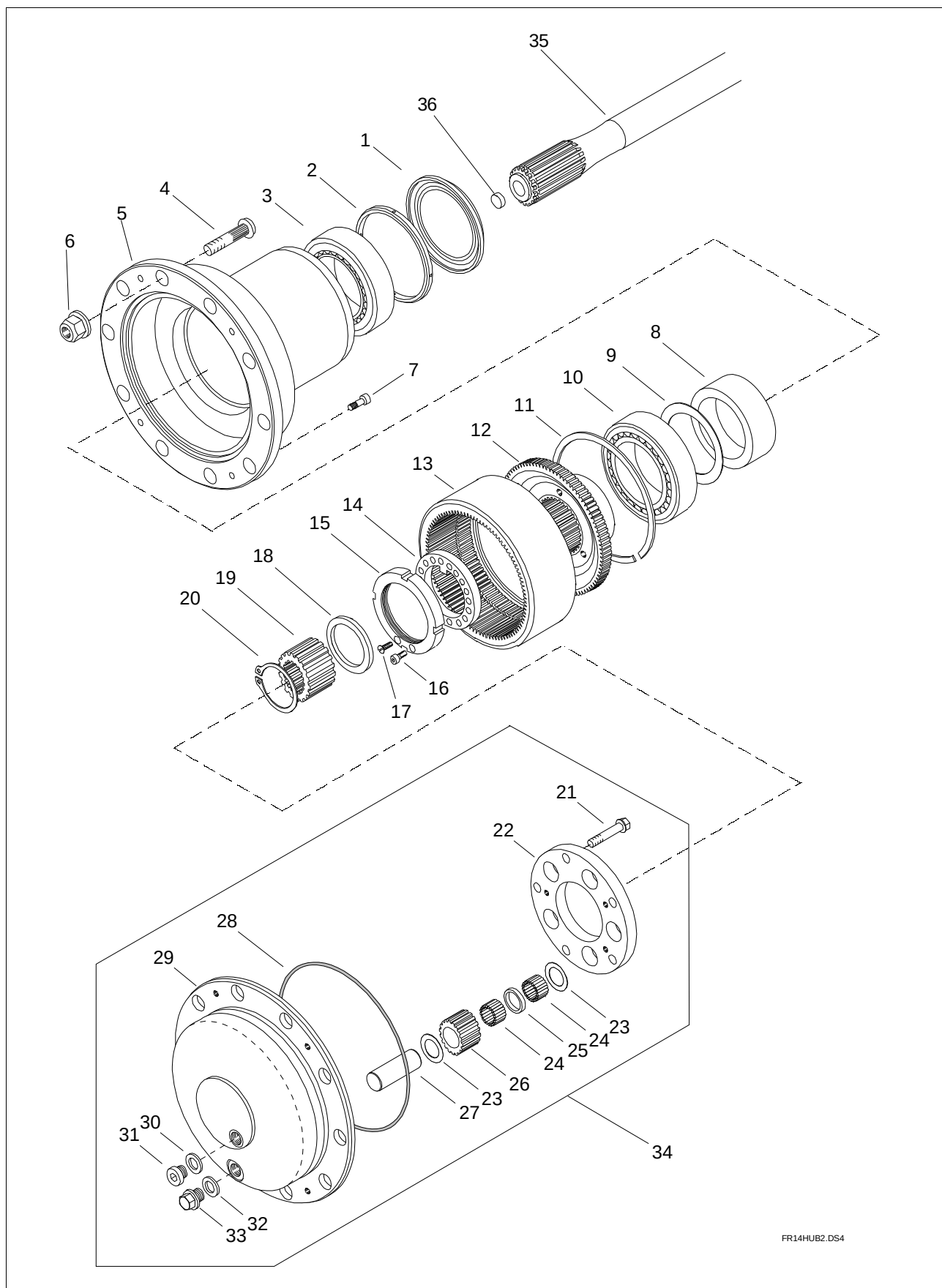
**FRMP14S0636/002
Book No. 388 (12/2008)**

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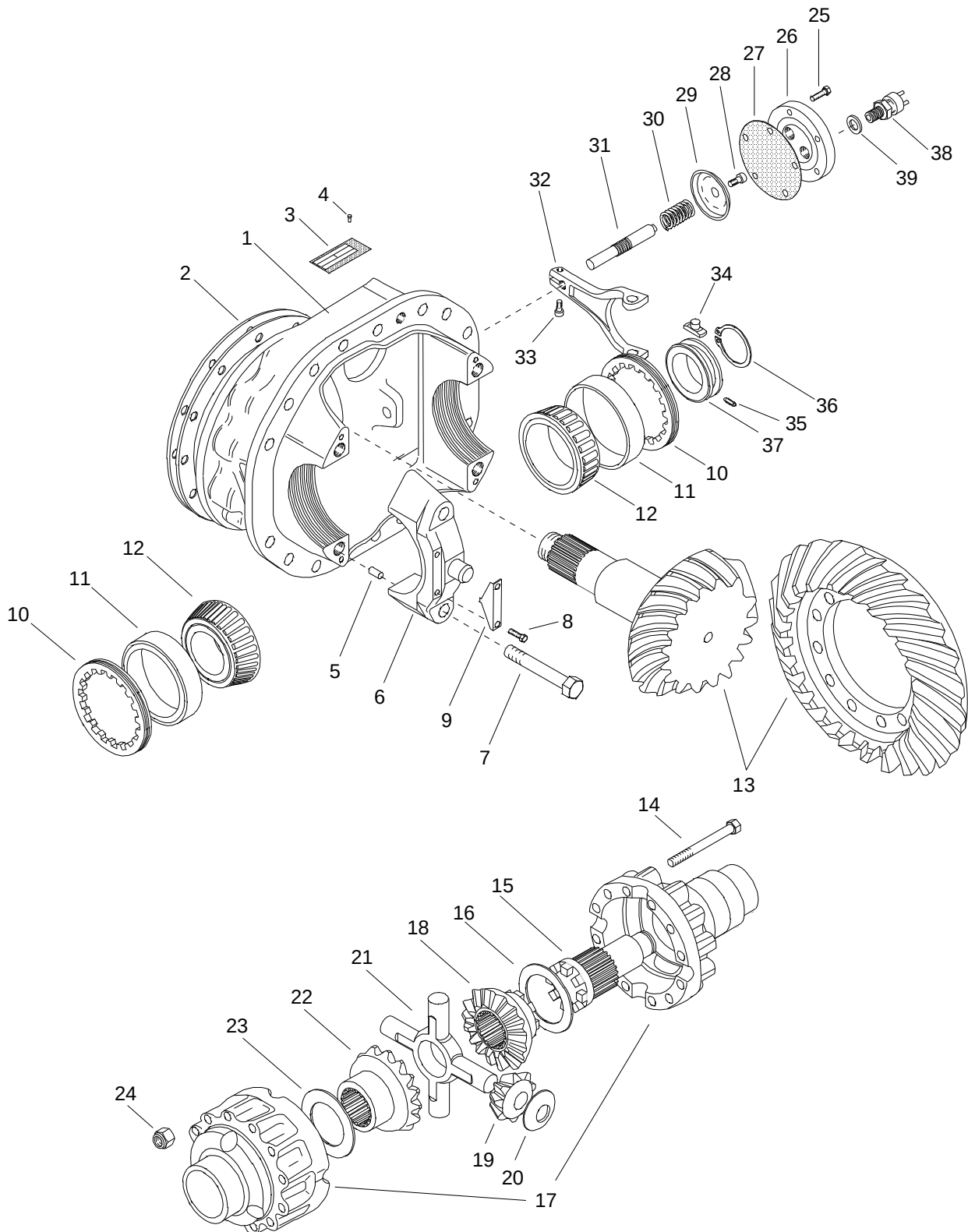
FRMP14A3.DS4

Item	Qty.	Order no.	Description	Note
1	1	544-304-6327	Diff. Carrier Assembly	i= 6.36, ISO 8667-T180 flange
2	16	90303-16407	Hex Screw	M16x40, 10.9
3	1	101-0110-327	Axle housing	
4	1	90873-22109	Oil plug	M22x1.5 - DIN908, Allen head, magnetic
4	1	91201-22150	Seal ring	D22/27x1.5 Cu
5	1	179-841-1000	Breather pipe	
6	1	179-842-0000	Breather Cover	
7	1	90621-32253	Split pin	3.2x25
8	1	144-251-3010	Output Shaft	
9	1	144-287-0310	Spacer ring	D54.6/76.4x21
10	1	91734-40651	Deep groove ball bearing	D65/120 x 23
11	1	591122-08507	Shaft seal	Cassette seal D85/120x9/20
12	1	544-321-0500	Seal housing	For cassette seal
13	8	90303-10303	Hex Screw	M10x30
14	1	538-917-2511	Output flange	ISO 8667 - T180, N55 (cassette seal)
15	1	90705-43069	washer	D43/80x6
16	1	90546-42653	Nut	M42x1.5
17	1	90621-63633	Split pin	6.3x63
18	2	540-415-1910	Spacer ring	D111/127x22
19	4	90111-29054	Rivet	D2.9x5
20	1	591600-20823	Name plate	



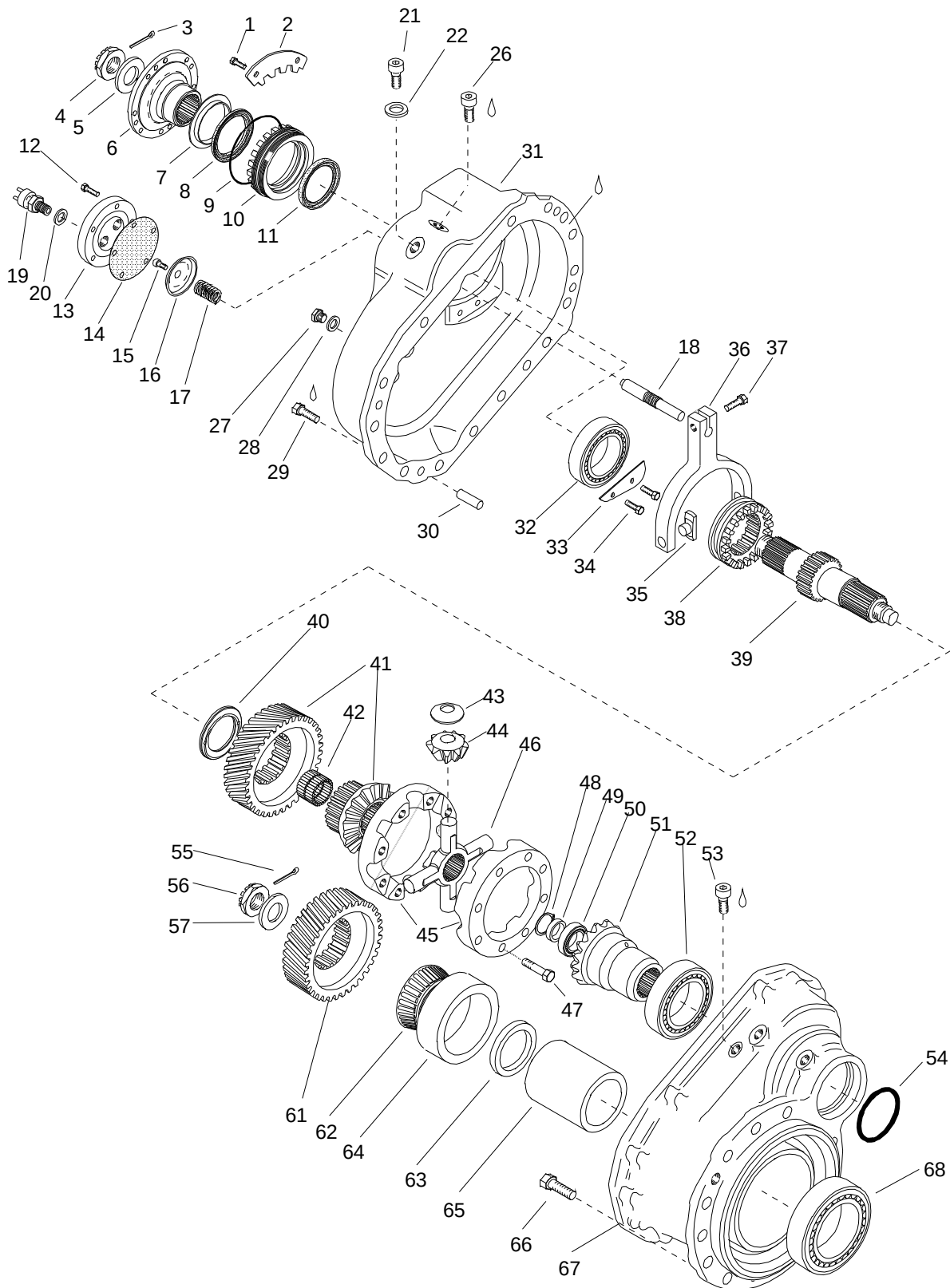
FR14HUB2.DS4

Item	Qty.	Order no.	Description	Note
1	2	591122-12702	Shaft seal	D127/160
2	NLA	540-415-2000	Spacer ring	D152/160x14, Unnecessary
3	2	91744-01051	T. Roller bearing	
4	20	140-911-2510	Wheel bolt	L=93 mm
5	2	541-411-2502	Wheel hub	FR-14
6	20	540-916-1610	Wheel nut	M22x1.5
7	8	590313-10303	Allen Screw	M10x30
8	2	543-416-0700	Spacer ring	D95/116x39
9	NLA	590731-09510	Shim	s= 0.1 mm
9	NLA	590731-09515	Shim	s= 0.15 mm
9	ar	590731-09520	Shim	s= 0.2 mm
9	ar	590731-09530	Shim	s= 0.3 mm
9	ar	590731-09550	Shim	s= 0.5 mm
10	2	91744-01201	T. Roller bearing	
11	2	91720-22001	Retainer ring	D220x3
12	2	535-271-0611	Ring gear hub	
13	2	535-261-2110	Ring gear	i=3.636, z58
14	2	143-418-0510	Lock plate	S=6 mm, punched
15	2	599-290-8004	Lock Nut	M90x2
16	2	590319-08186	Allen Screw	M8x18
17	2	590319-08126	Allen Screw	M8x12
18	2	090-721-8500	Protective cup	D60/85x10
19	2	535-211-1310	Sun gear	N55x2x26
20	2	591711-05500	Retainer ring	D55x2
21	10	590169-01670	Special screw	M16x1.5x70
22	2	535-231-1310	Planet carrier	
23	20	590-353-1100	Spacer plate	D33.5/55.5x1.47
24	480	91385-50240	Needle roller	D5x23.8
25	10	590-354-3100	Spacer ring	D33.5/42x7
26	10	535-241-1310	Planet gear	
27	10	535-251-1410	Planet gear shaft	
28	2	591109-66052	O-ring	D266x5.33
29	2	541-471-0400	Planetary gear housing	FR-14
30	2	91201-22150	Seal ring	D22/27x1.5 Cu
31	2	90873-22109	Oil plug	M22x1.5, Allen head
32	2	91201-22150	Seal ring	D22/27x1.5 Cu
33	2	90871-22193	Plug screw	M22x1.5, hex head
34	2	541-404-0161	Planetary gear	FR-14
35	1	543-512-0000	Axle Shaft	FRMP & FRFP, RH, W55x2x26, L=1245
35	1	543-512-0000	Axle Shaft	FRDP, LH, W55x2x26, L=1245
35	1	543-512-0010	Axle Shaft	FRMP & FRFP, LH, W55x2x26, L=1157
35	1	543-512-0010	Axle Shaft	FRDP, RH, W55x2x26, L=1157
36	2	140-125-0100	Thrust pin	D25



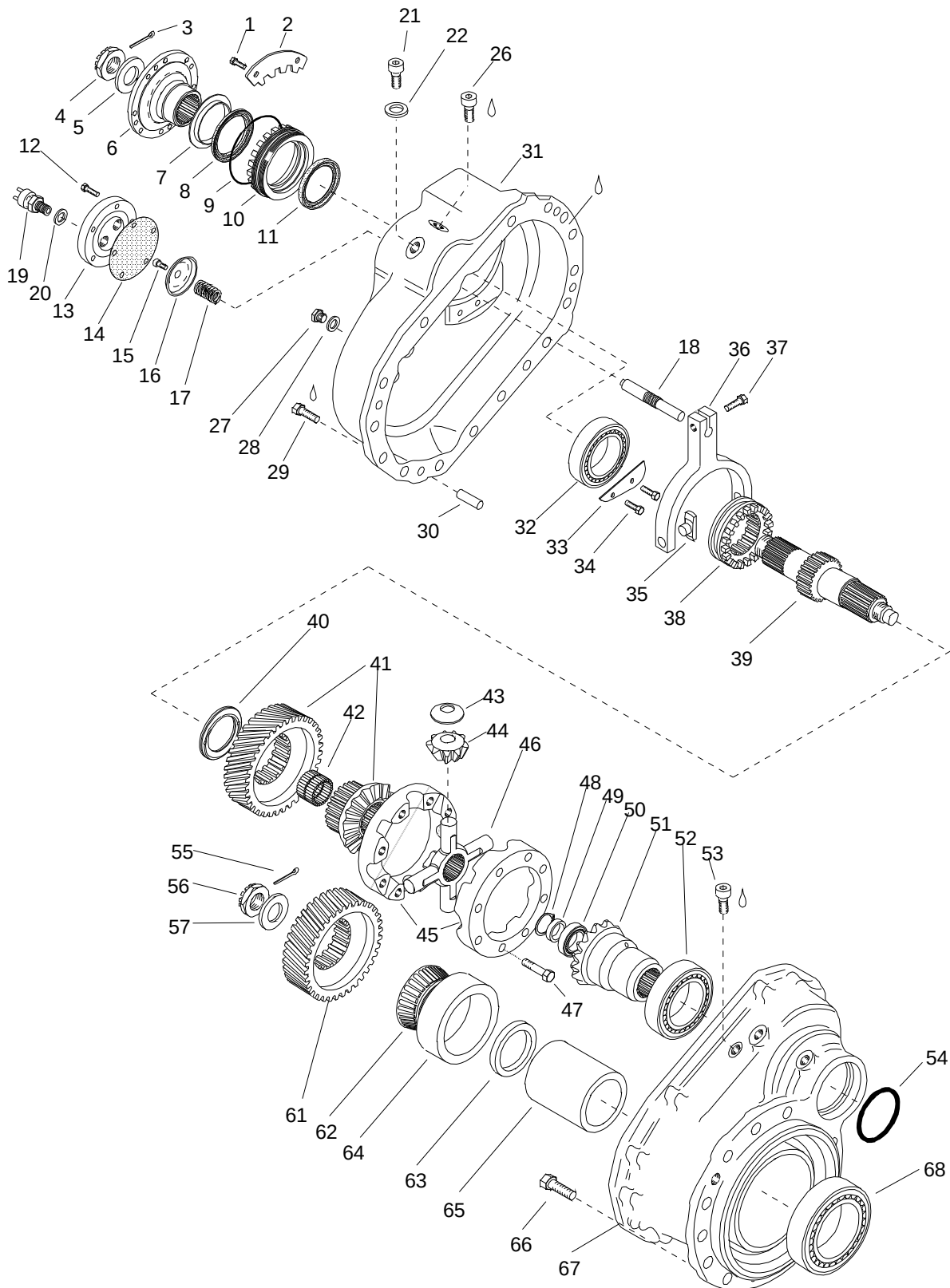
TDM2-VE1.DS4

Item	Qty.	Order no.	Description	Note
1	1	144-210-1911	Differential Carrier	Inc. Bearing Case Halfs and Bolts
2	ar	144-239-2000	Shim	(1.0 mm)
2	ar	144-239-2001	Shim	(0.5 mm)
2	ar	144-239-2002	Shim	(0.2 mm)
2	ar	144-239-2003	Shim	(0.1 mm)
3	1	591600-20823	Name plate	
4	4	90111-29054	Rivet	D2.9x5
5	4	590604-08141	Pin	8x14
6	2	143-214-2180	Bearing Case Half	Not Serviced Separately
7	4	90301-20377	Hex Screw	M20x130
8	4	90303-08103	Hex Screw	M8x10
9	2	143-227-0610	Lock plate	
10	2	143-226-0012	Adjusting nut	D149
11	2	090-121-4700	Bearing outer race	
12	2	090-110-9000	Bearing inner race	
13	1	543-240-6119	Ring and pinion gear set	14/27, FR 7.01
13	1	543-240-6129	Ring and pinion gear set	16/28, FR 6.36
13	1	543-240-6151	Ring and pinion gear set	12/29, FR 8.79
13	1	543-240-6181	Ring and pinion gear set	10/29, FR 10.55
13	1	543-240-6311	Ring and pinion gear set	25/32, FR 4.28/4.65 (FR 3.78/4.11 w/3.214 hub)
14	12	90321-16538	Hex Screw	M16x1.5
15	1	144-341-1700	Sliding Gear	
16	1	090-359-7000	Thrust washer	D97/127x3
17	1	143-310-3811	Diff. case assy	
18	1	543-351-4310	Side gear	D55/Z26
19	4	143-341-0700	Pinion gear	
20	4	143-345-0400	Thrust washer	D29/65x1.5
21	1	143-331-0603	Spider	
22	1	543-351-4210	Side gear	D55/Z26
23	1	090-357-5000	Thrust washer	D75/111x3
24	12	90556-16247	Nut	M16x1.5
25	5	90303-08203	Hex Screw	M8x20
26	1	572-161-1502	Membrane cover	For Signal Lamp Switch
27	1	172-351-1202	Membrane	
28	1	90319-08206	Screw	M8x20
29	1	172-361-0410	Push plate	D70x12
30	1	097-122-0100	Return spring	D29.5x43
31	1	172-212-1710	Sliding Shaft	D16/20x125
32	1	144-751-1210	Control fork	
33	1	90313-06208	Allen Screw	M6x20
34	2	133-348-0710	Sliding shoe	
35	1	90335-05108	Stopping screw	M5x10
36	1	91711-06500	Retainer ring	D65
37	1	144-348-0000	Sliding ring	
38	1	586-490-0381	Signal Lamp Switch	M18x1.5, connection M27x1.5
38	1	586-490-0481	Signal Lamp Switch	M18x1.5, connection DIN72585 bayonet
39	1	91201-18150	Seal ring	D18/22x1.5 Cu



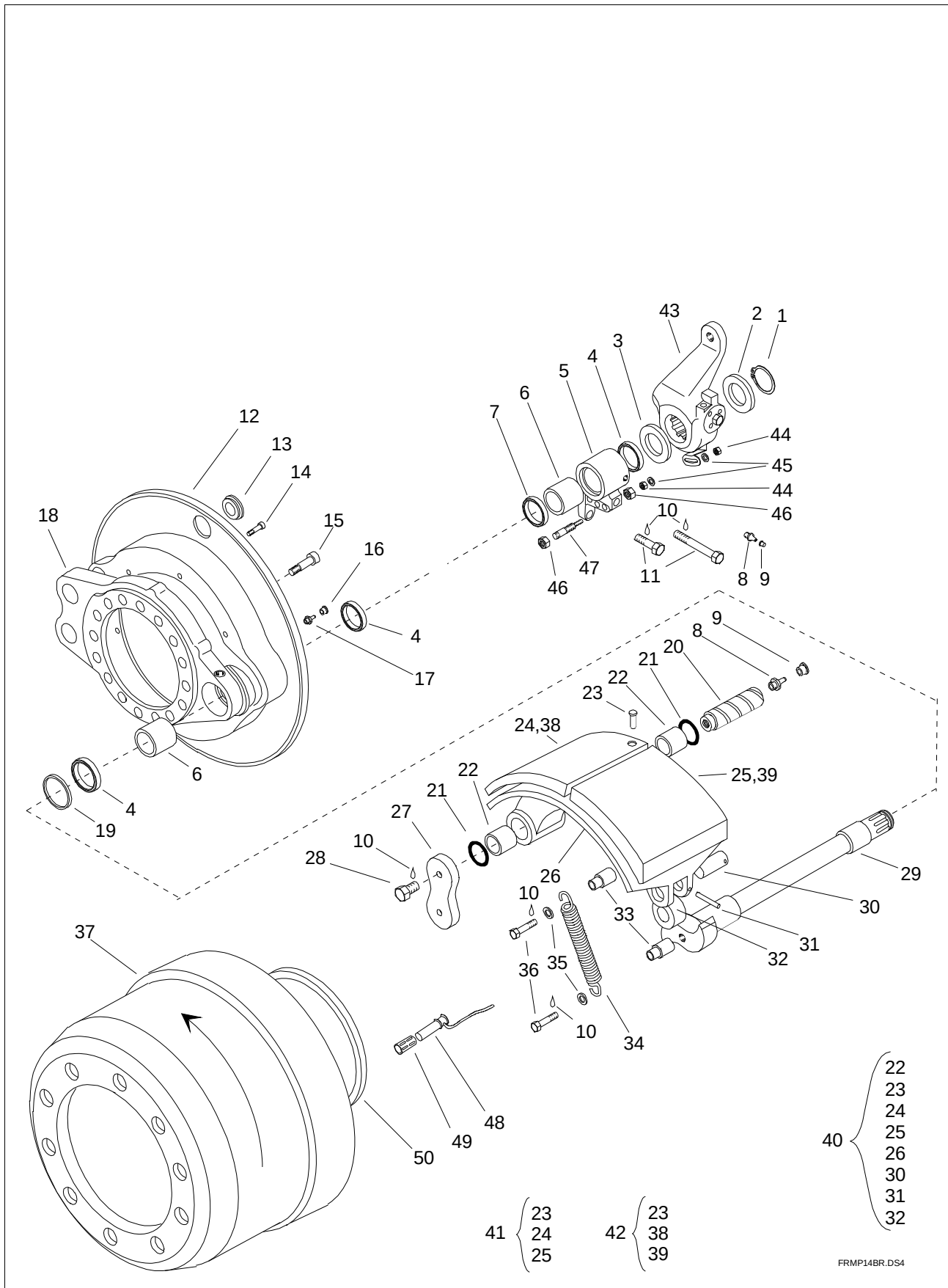
MP330DG2.DS4

Item	Qty.	Order no.	Description	Note
1	2	90303-08203	Hex Screw	M8x20
2	1	143-227-0710	Lock plate	
3	1	90621-63633	Split pin	6.3x63
4	1	90546-42653	Nut	M42x1.5
5	1	90705-43069	washer	D43/80x6
6	1	538-918-1610	Flange	HS 1700/1800 L=74.5
6	1	538-918-1611	Flange	ISO 8667-T180 L=76
7		0		Not installed
8	1	591122-08507	Shaft seal	Cassette seal D85/120x9/20
9	1	91101-39530	O-ring	D139.5x3
10	1	543-226-1400	Adjusting nut	For cassette seal
11	0	0		Not installed
12	5	90303-08203	Hex Screw	M8x20
13	1	172-161-0701	Membrane cover	Only w/pressure lubrication
13	1	572-161-1502	Membrane cover	Standard, w/signal lamp switch thread
14	1	172-351-1202	Membrane	
15	1	90319-08206	Screw	M8x20
16	1	172-361-0410	Push plate	D70x12
17	1	097-122-0100	Return spring	D29.5x43
18	1	172-212-1710	Sliding Shaft	D16/20x125
19	1	586-490-0381	Signal Lamp Switch	M18x1.5, connection M27x1.5
19	1	586-490-0481	Signal Lamp Switch	M18x1.5, connection DIN72585 bayonet
20	1	91201-18150	Seal ring	D18/22x1.5 Cu
21	1	90871-18173	Plug screw	M18x1.5
22	1	91201-18150	Seal ring	D18/22x1.5 Cu
26	1	90873-10053	Plug screw	M10x1, Allen head
27	1	90871-22193	Plug screw	M22x1.5, hex head
28	1	91201-22150	Seal ring	D22/27x1.5 Cu
29	16	90303-12308	Hex Screw	M12x30
30	2	90604-10201	Cotter Pin	D10x20
31	1	144-221-0600	Diff. Carrier Cover	
32	1	91744-00704	T. Roller bearing	
33	1	546-167-1101	Oil Plate	
34	2	90303-08203	Hex Screw	M8x20
35	2	133-348-1701	Sliding shoe	
36	1	144-751-1300	Control fork	
37	1	90313-08208	Allen Screw	M8x20
38	1	544-274-0910	Sliding Ring	
39	1	144-251-3300	Intermediate Shaft	

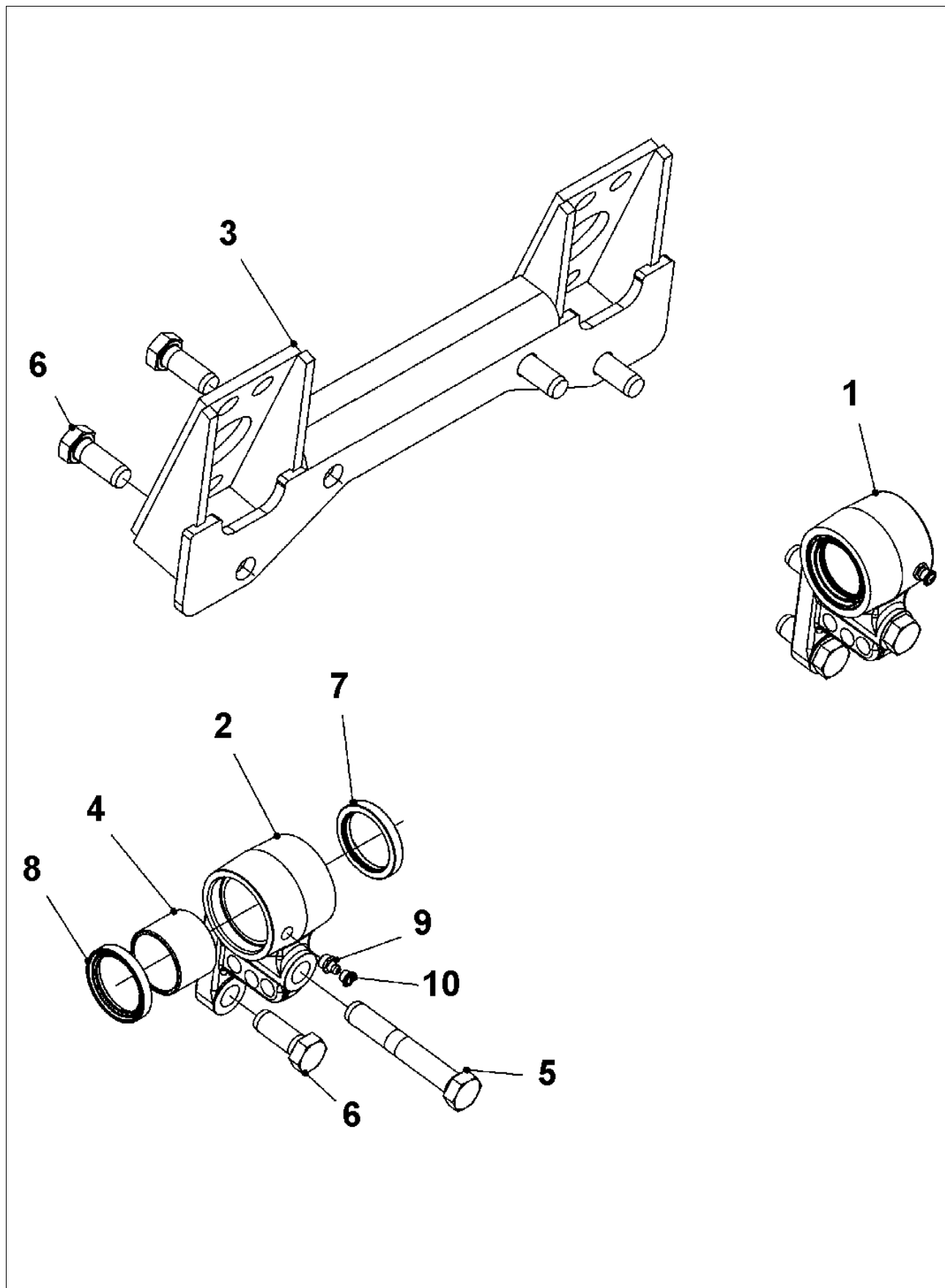


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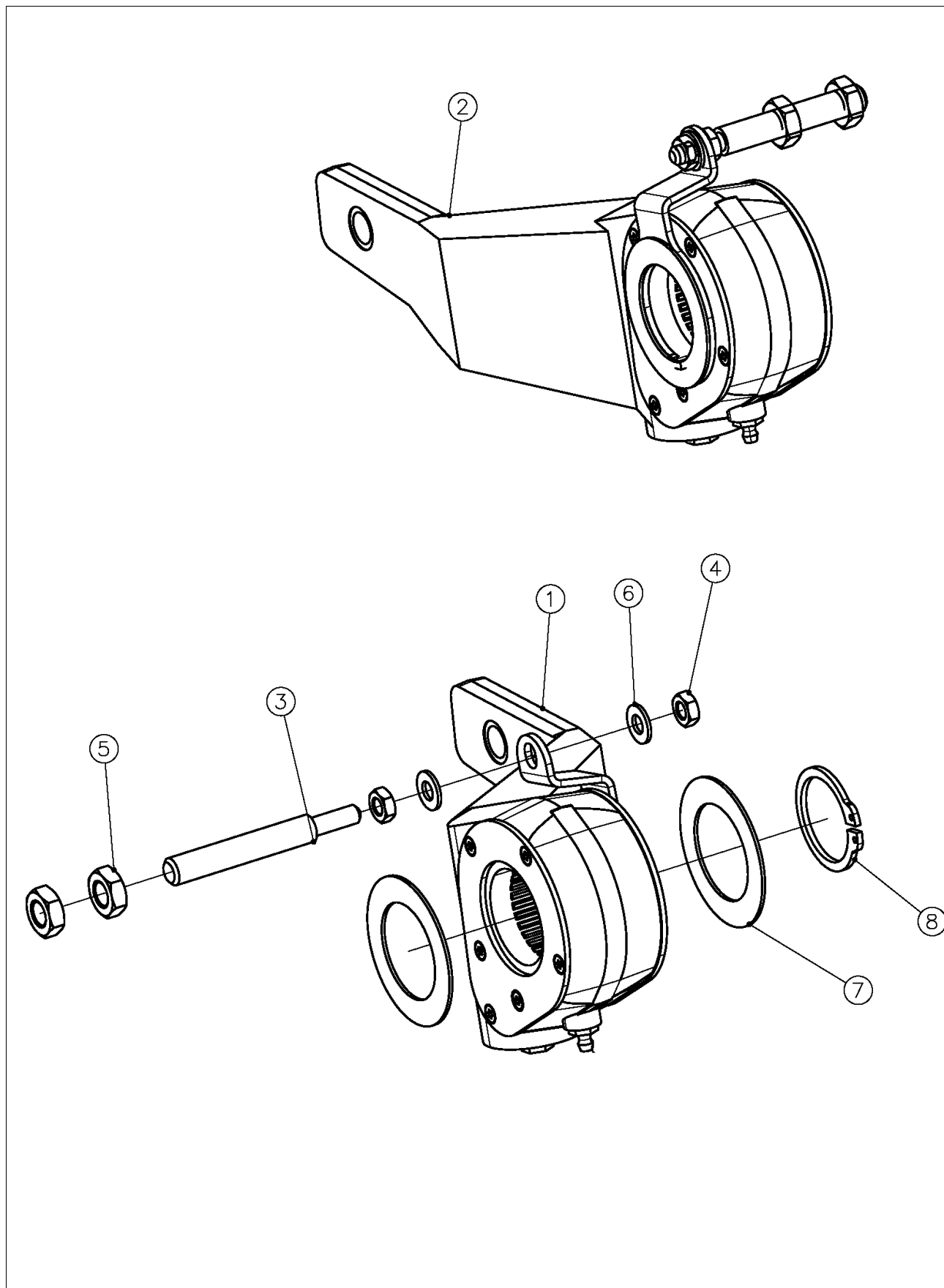
Item	Qty.	Order no.	Description	Note
40	1	144-282-0013	Thrust washer	D64/99x6
41	1	544-269-1610	Gear assembly	z28, ratio 1:1
42	1	91738-40621	Needle bush	
43	4	143-345-0400	Thrust washer	D29/65x1.5
44	4	143-341-0700	Pinion gear	
45	1	143-310-3611	Diff. case assy	
45		543-301-4211	Differential case set	Includes items 43 - 47
46	1	143-331-1900	Spider	
47	8	90301-12703	Hex Screw	M12x70
48	1	91711-05600	Retainer ring	D56x2
49	ar	90731-03510	Shim	(0.1 mm)
49	ar	90731-03520	Shim	(0.2 mm)
49	ar	90731-03550	Shim	(0.5 mm)
49	ar	90732-03510	Shim	(1.0 mm)
50	1	91744-00351	T. Roller bearing	
51	1	143-351-3700	Side gear	
52	1	91744-00951	T. Roller bearing	
53	1	90873-10053	Plug screw	M10x1, Allen head
54	1	591106-99532	O-ring	D99.5x3
55	1	90621-63633	Split pin	6.3x63
56	1	90546-42653	Nut	M42x1.5
57	1	90705-43069	washer	D43/80x6
61	1	544-261-3010	Gear	z28, ratio 1:1
62	1	591744-10754	Bearing inner race	
63	ar	590731-07510	Shim	s=0.10 mm
63	ar	590731-07530	Shim	s=0.30 mm
63	ar	590731-07550	Shim	s=0.50 mm
64	1	591744-21451	Bearing outer race	
65	ar	543-261-1300	Spacer ring	L=89.00 mm
65	ar	543-261-1301	Spacer ring	L=89.02 mm
65	ar	543-261-1302	Spacer ring	L=89.05 mm
65	ar	543-261-1303	Spacer ring	L=89.08 mm
66	12	90303-16407	Hex Screw	M16x40, 10.9
67	1	544-211-1900	Diff. Carrier Housing	
68	1	591744-00760	T. Roller bearing	



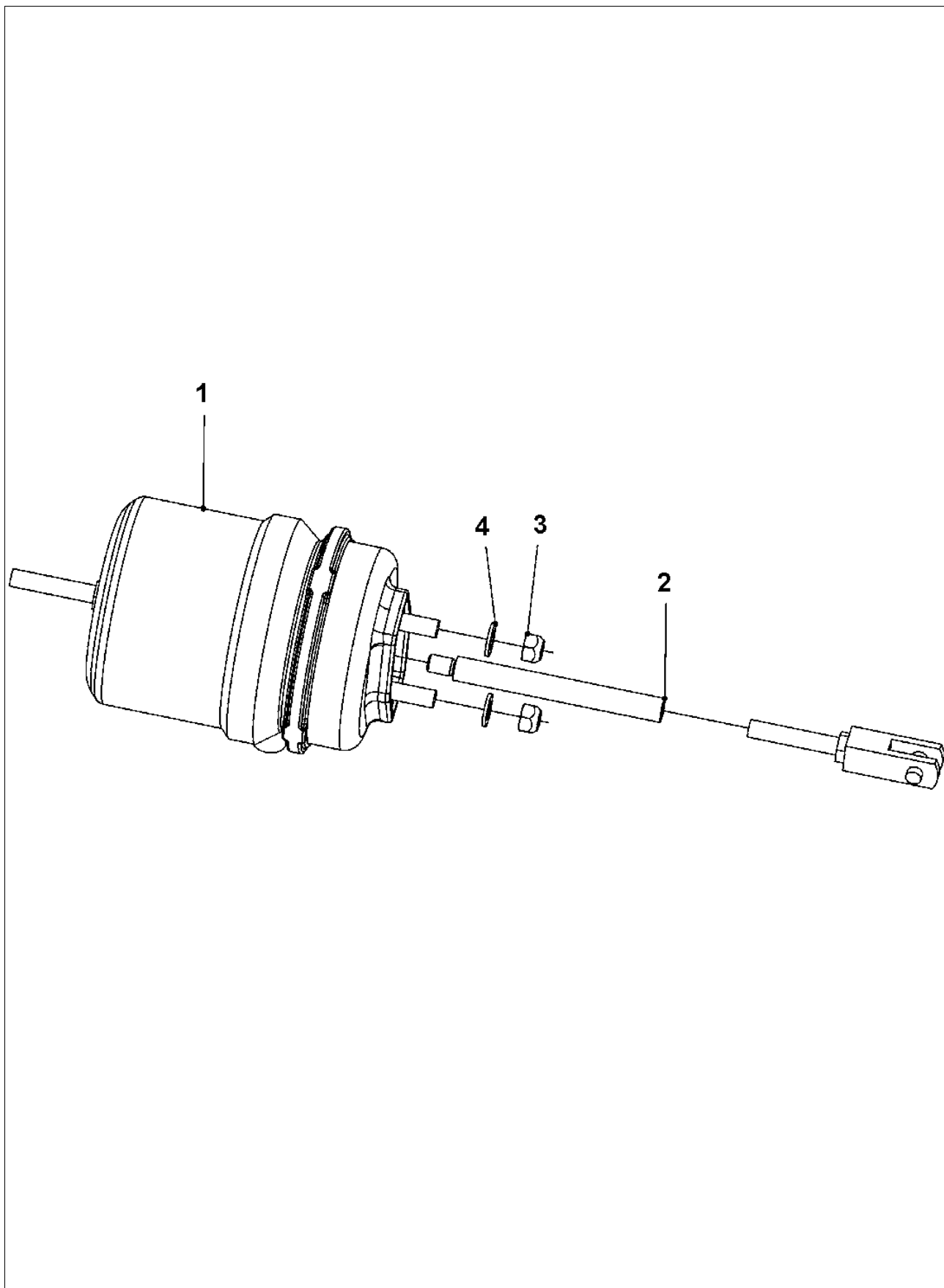
Item	Qty.	Order no.	Description	Note
1		N1	Note	See separate page
2		N1	Note	See separate page
3		N1	Note	See separate page
4	6	91122-04201	Shaft seal	D42/55x8
5	1	146-224-2310	Bearing housing	RH (FRMP & FRFP) or LH (FRDP)
5	1	146-224-2400	Bearing housing	LH (FRMP & FRFP) or RH (FRDP)
6	4	590-314-2062	Sleeve	D42/48x36
7	2	91122-04202	Shaft seal	D42/55x7
8	6	91402-10003	Grease nipple	M10x1, Straight
9	6	91421-06060	Shield hat	
10		95752-10010	Thread locking compound	
11	2	90301-16117	Hex Screw	M16x100
11	2	90303-16407	Hex Screw	M16x40
12	2	146-131-2210	Dust Shield	210 mm
13	4	095-553-2000	Shield plug	D33/44
14	14	90313-08163	Allen Screw	M8x16
15	28	90313-14408	Allen Screw	M14x40
16	2	91421-06060	Shield hat	
17	2	91402-10453	Grease nipple	M10x1, 45°
18	2	546-111-3800	Brake Bracket	FR14
19	2	91726-43065	Support ring	D43/65x3
20	4	146-341-1200	Anchor bolt	D32x108, With grease nipple
21	8	91106-36212	O-ring	D36,2x3 Viton
22	8	590-313-2091	Sleeve	D32/36x25
23	96	91501-00819	Rivet	D6.2/12.3x18.3
24	4	546-361-6313	Brake lining	210 mm, Beral1561, not serviced separately
25	4	546-361-6213	Brake lining	210 mm, Beral1561, not serviced separately
26	4	146-351-4100	Brake shoe	210 mm
27	2	146-331-0401	Anchor support	
28	4	90303-10203	Hex Screw	M10x20
29	1	546-213-2400	S-cam shaft	RH, L=830.5
29	1	546-213-2500	S-cam shaft	LH, L=830.5
30	4	146-373-0201	Pin	D25x50
31	4	90602-05450	Spring cotter	D5x40
32	4	146-371-0700	Roller	D25/54x28
33	6	599-601-8900	Bush	D12/20/25x36
34	4	92052-30002	Return spring	D30x165.5
35	6	90705-13023	washer	D13/24x2.5
36	6	90303-12603	Hex Screw	M12x60
37	2	146-311-7910	Brake drum	D410x210 mm
40	4	546-306-0083	Brake shoe assy	210mm, Beral1561
41	ar	546-360-3113	Brake lining set	210mm, Beral1561, for one wheel
43		N1	Note	See separate page
44	4	90502-08133	Nut	M8
45	4	90705-08423	washer	D8.4/17x1.6
46	4	90502-12193	Nut	M12
47	2	90177-01203	Stud bolt	M12/M8
48	2	589-250-0081	Sensor	Optional, ABS, Knorr, protected wire
49	2	189-295-0000	Bush	Optional, ABS
50	2	189-291-0000	Ring gear	Optional, ABS, 100 Splines



Item	Qty.	Order no.	Description	Note
1	1	146-224-2310	Bearing housing	RH
2	1	146-224-2400	Bearing housing	LH
3	1	546-721-8010	Chamber bracket	17 deg, 165mm, offset 60/75, c/c 302/340
4	2	590-314-2062	Sleeve	D42/48x36
5	2	90301-16117	Hex Screw	M16x100, 10.9
6	6	90303-16407	Hex Screw	M16x40, 10.9
7	2	91122-04201	Shaft seal	D42/55x8
8	2	91122-04202	Shaft seal	D42/55x7
8	2	91720-05500	Retainer ring	D55x1.5, since S/N 164224 (9/2006)
9	2	91402-10003	Grease nipple	M10x1, Straight
10	2	91421-06060	Shield hat	



Item	Qty.	Order no.	Description	Note
1	1	546-530-2012	Slack adjuster	RH, 165 mm, offset 75
2	1	546-530-2022	Slack adjuster	LH, 165 mm, offset 75
3	2	90177-01203	Stud bolt	M12/M8, L=94
4	4	90502-08133	Nut	M8
5	4	90502-12193	Nut	M12
6	4	90705-08423	washer	D8.4/17x1.6
7	4	090-354-3030	Spacer plate	D43/66x1.5
8	2	91712-04000	Retainer ring	D40x2.5



Item	Qty.	Order no.	Description	Note
1	2	172-103-4161	Spring Brake Chamber	30"/30", L=89, Knorr
2	2	90169-11606	Screw	L=190
3	4	90556-16247	Nut	M16x1.5
4	4	90705-17033	washer	D17/30x3