EC219 - Rotator frame

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COVERSHEET

Planned document changes:

Breifly:
No planned changes.

Document changes:

Date:	Change:	Rev. after change:
2026-10-09	ECHF added to spare parts page.	U
2025-01-08	Bearing ring w. screws replaced. Nipple to frame added.	T
2024-05-14	QSM updated.	S
2024-01-08	Spare parts screws corrected.	R
2023-11-07	Screws for lubrication kit added.	Q
2023-06-29	Loxeal added. O-ring for worm wheel updated.	P
2022-05-13	EC219S added. (EC219 with ePS2 compatible sensors)	O
2022-01-26	Details for end lock added.	N
2021-09-03	Rotator frame replaced. Break support added.	M
2021-07-05	Layout/irrelevant.	L
2021-05-28	Bearing ring updated.	K
2020-12-11	Option 131cc motor on ECHF clarified. Photo added.	J
2020-10-06	Motor hoses QSM & ECHF replaced. Photo replaced.	I
2018-11-16	QSM added (also applicable for "Without swivel")	H
2018-08-10	Layout/irrelevant.	G
2018-06-21	Layout/irrelevant.	F
2018-03-19	New location for seiral no.	E
2017-10-17	Sensor for MACS replaced.	D
2017-08-07	Layout/irrelevant.	C
2017-05-11	Rotator frame replaced. Coversheet added.	B

Readers note:

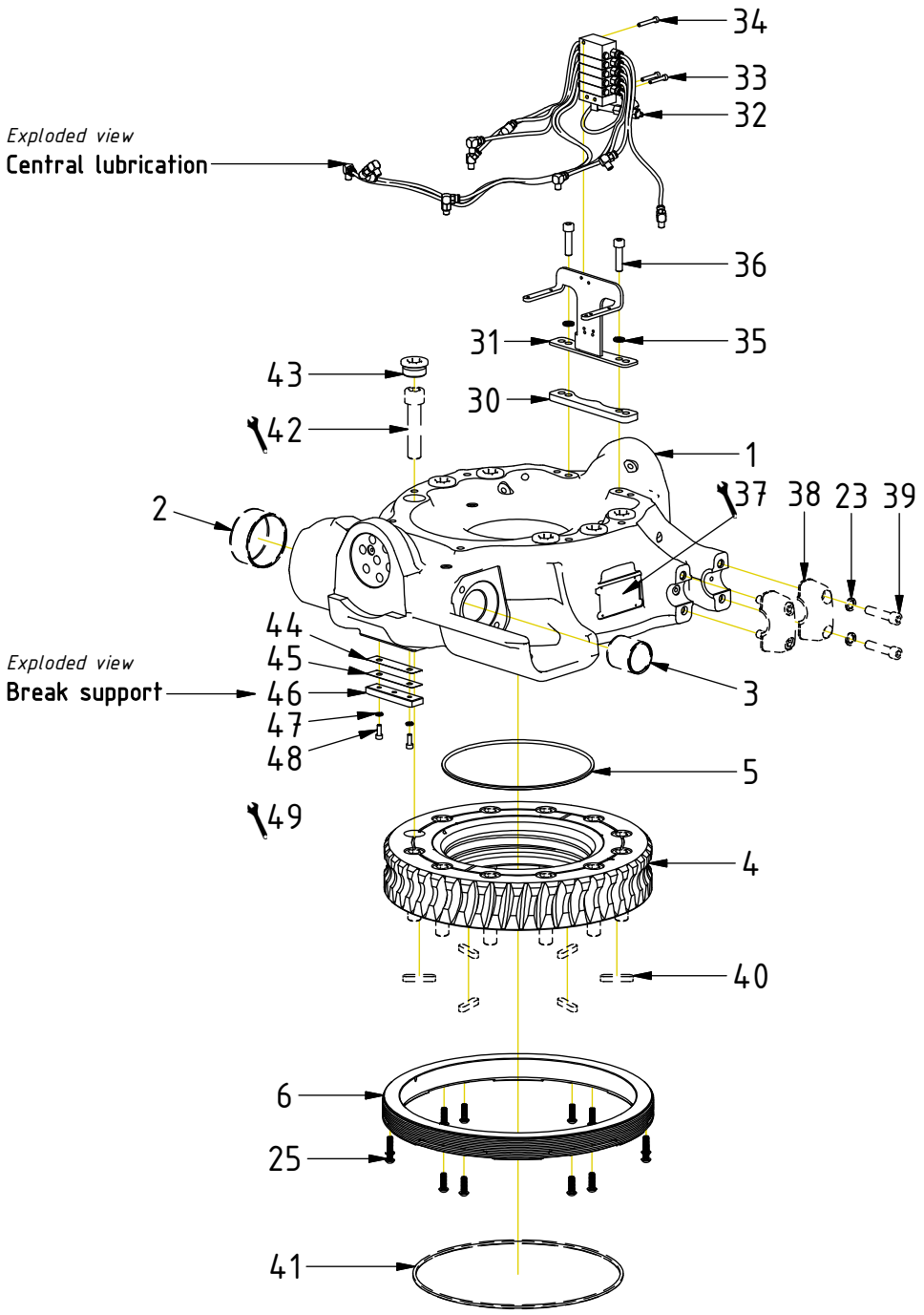
Indicates instruction.

Represents Hose.

Dashed lines for overview, mounts on other pages/assemblies.

EC219 - Rotator frame

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POS	DESCRIPTION	PART	QTY	COMMENTS
1	Rotator frame EC219 V5	1062295	1	(POS.2-3 incl.)
2	Bushing WB802 80/85x40	630103	1	
3	Bushing WB802 45/50x50	630102	1	
4	Worm wheel EC219	1016409	1	
5	O-ring 225x5	7001662	1	
6	Bearing ring EC219 V2	1077005	1	(Only compatible with 8x25)
23	Washer NL 12mm	611042	10	QTY: 8 part of top part
25	Screw TX45 8x25 10,9 FZB	1078840	12	Torque: 34Nm Tighten in cross pattern
30	Spacer central lubrication QSM	1047832	1	
31	Mounting plate lube. ECHF/QSM	1031517	1	
32	Lubrication kit	1021135	1	
33	Screw MC6S M5x30 12.9	610403	2	
34	Screw MC6S M5x35 12.9	610404	1	
35	Washer NL 10mm	611041	2	
36	Screw MC6S M10x40 12.9 ZFSHL	612020	2	Torque: 79Nm
37	Punch serial no into rotator frame			
38	Clamping half Complete	1016393	4	Part of top part
39	Screw MC6S M12x55 12.9 ZFSHL	6000155	8	Part of top part. Torque: 136Nm
40	Feather Key	650102	6	Part of quick hitch
41	O-ring 319,3x5,7	710908	1	Part of quick hitch
42	Screws depends on quick hitch		12	See "Quick hitch"
43	Pipe plug M36x2	650408	6	
44	Shim supporting plate 0,1mm	1055262	1	
45	Shim supporting plate 0,3mm	1055260	1	
46	Supporting plate	1055258	1	
47	Washer NL 6mm	611039	2	
48	Screw MC6S M6x16 12.9 ZFSHL	6000017	2	
49	Break play: 0,5 - 0,7mm			Assy. between frame & quick hitch

POS in order of assembly

EC219 - Rotator frame

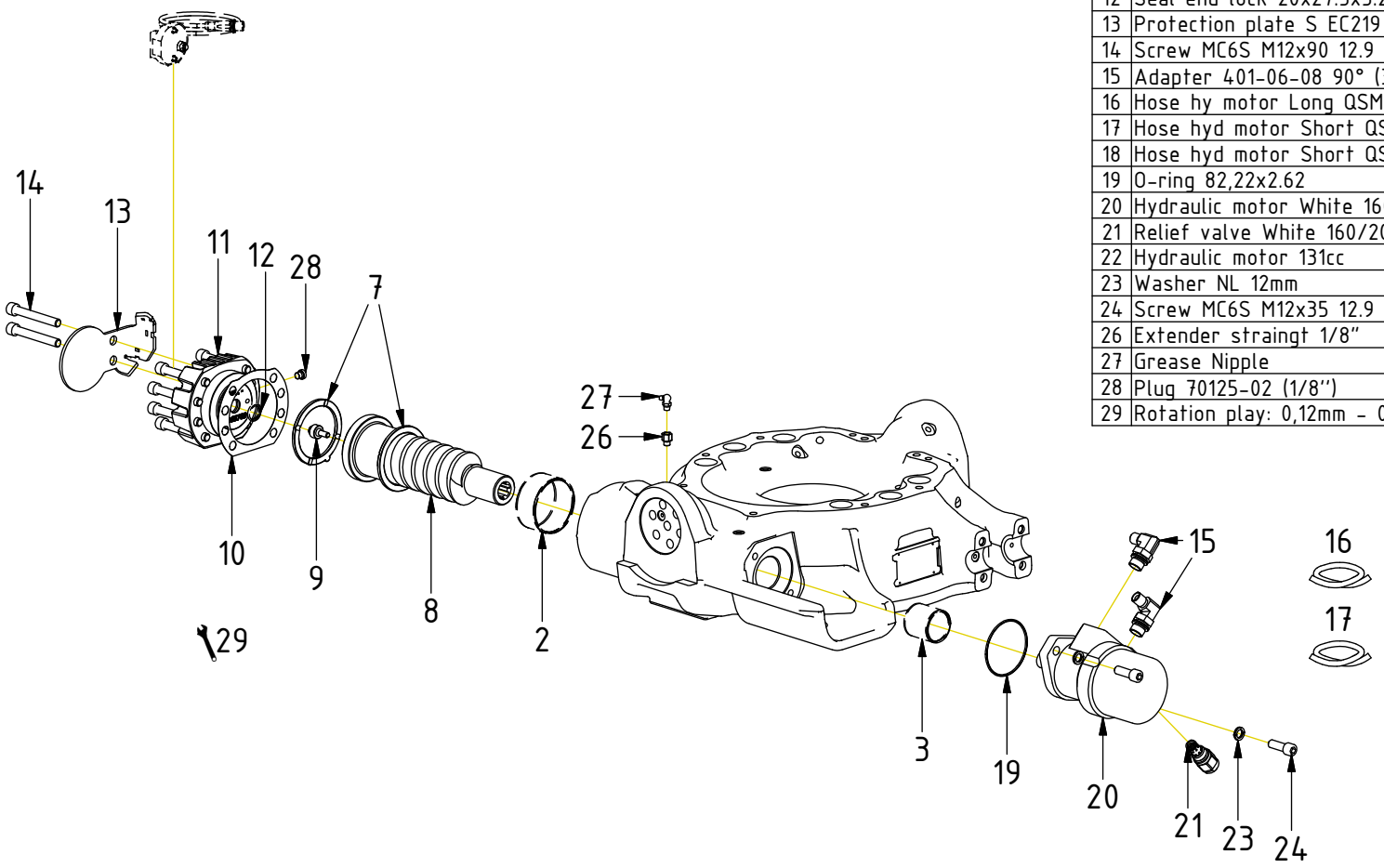
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POS in order of assembly

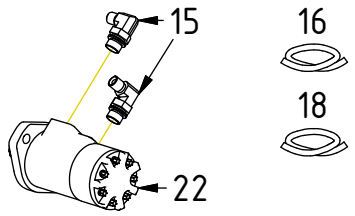
EC219S:

Exploded view

ePS2 Sensors



Option (131cc)



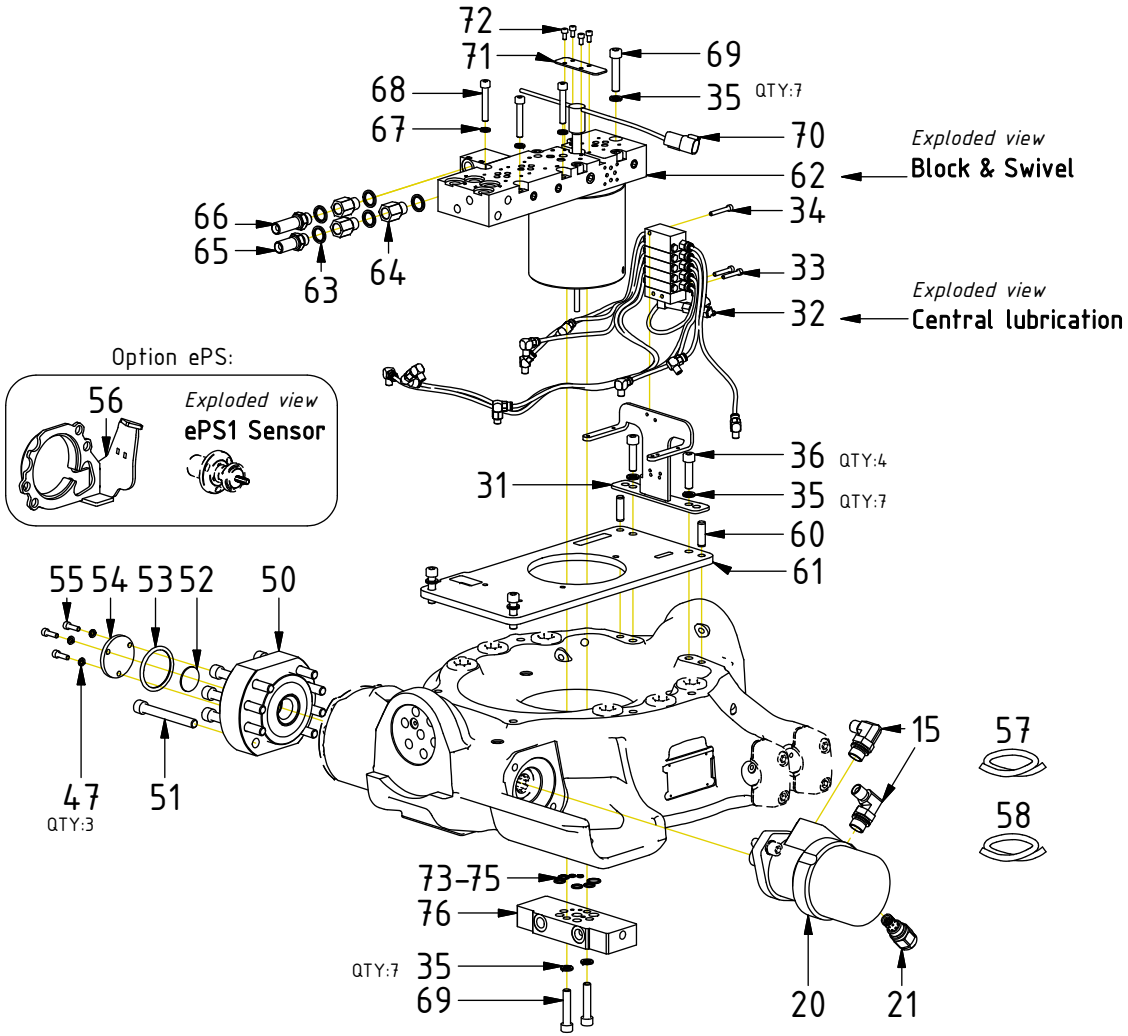
POS	DESCRIPTION	PART	QTY	COMMENTS
2	Bushing WB802 80/85x40	630103	1	
3	Bushing WB802 45/50x50	630102	1	
7	Axial washer (with ear)	1079941	2	Face grooves toward worm screw
8	Worm Screw EC219	1016408	1	
9	Magnet Spacer Worm Screw	1062693	1	Loxeal 83-52. Torque: 20Nm
10	Shims kit End Lock 0,3-0,4-0,5 mm	1034434	1	
11	End Lock S EC219 Cast	1065789	1	(POS.12 incl.)
12	Seal end lock 20x27.5x3.2	1063616	1	
13	Protection plate S EC219	1063372	1	
14	Screw MC6S M12x90 12.9 ZFSHL	6000147	8	Torque: 136Nm
15	Adapter 401-06-08 90° (3/8''-1/2'')	710157	2	
16	Hose hy motor Long QSM 160/131cc	7000724	1	Part of quick hitch assy.
17	Hose hyd motor Short QSM 160cc	7000790	1	Part of quick hitch assy.
18	Hose hyd motor Short QSM 131cc	7000789	1	Part of quick hitch assy.
19	O-ring 82,22x2.62	7000920	1	
20	Hydraulic motor White 160cc	7001806	1	
21	Relief valve White 160/200cc	7001647	1	Torque: 55Nm. Assy. before motor
22	Hydraulic motor 131cc	720112	1	Option
23	Washer NL 12mm	611042	10	QTY: 8 part of top part
24	Screw MC6S M12x35 12.9 ZFSHL	6000150	2	Torque: 136Nm
26	Extender straingt 1/8"	712216	1	
27	Grease Nipple	711409	1	
28	Plug 70125-02 (1/8'')	711503	1	
29	Rotation play: 0,12mm - 0,20mm			Note rotation play on module card

EC219 - Rotator frame

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RELATED SPARE PARTS

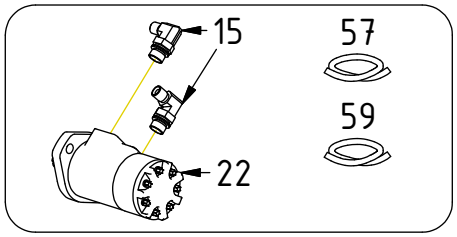
EC219 ECHF



POS	DESCRIPTION	PART	QTY	COMMENTS
15	Adapter 401-06-08 90° (3/8''-1/2'')	710157	2	
20	Hydraulic motor White 160cc	7001806	1	
21	Relief valve White 160/200cc	7001647	1	Torque: 55Nm. Assy. before motor
22	Hydraulic motor 131cc	720112	1	Option
32	Lubrication kit	1021135	1	
33	Screw MC6S M5x30 12.9	610403	2	
34	Screw MC6S M5x35 12.9	610404	1	
35	Washer NL 10mm	611041	2	
36	Screw MC6S M10x40 12.9 ZFSHL	612020	2	Torque: 79Nm
47	Washer NL 6mm	611039	2	
50	End lock EC209/EC214/EC219	1016557	1	
51	Screw MC6S M12x100 12.9 ZFSHL	611514	8	Torque: 136Nm
52	Spacer Plate	1065370	1	
53	O-ring 27x5	7000485	1	
54	Cover end lock	1041613	1	
55	Screw MC6S M6x20 A4-80	611513	3	
56	Protection ePS	1033565	1	For ePS1
57	Hose hy motor Short ECHF 160/131cc	7000026	1	
58	Hose hyd motor Long ECHF 160cc	7001404	1	Used from 2020-10
59	Hose hyd motor Long ECHF 131cc	7000025	1	Also used on 160cc until 2020-09
60	Cylindrical pin	1015672	2	
61	Valve plate ECHF	1024824	1	
62	Valve bl. & Swivl for slipring Compl.	1027386	1	
63	Washer GBR06 3/8	710703	5	
64	Adapter 236-06-06	710131	3	
65	Adapter 1260-06-32 (3/8'')	710242	1	
66	Adapter 1260-06-43 (3/8'')	710262	1	
67	Washer NL 8mm	611040	3	
68	Screw MC6S 8x50 12.9	610439	3	
69	Screw MC6S M10x50 12.9 ZFSHL	611515	3	
70	Kit slip ring ECHF DTM	1030298	1	For QS. See "Slip rings"
71	Cover plate slip ring	1026200	1	
72	Screw MC6S M5x10 12.9	610594	4	
73	O-ring 6,07x1,78	712422	2	
74	O-ring 12,42x1,78	710973	4	
75	O-ring 15,6x1,78	710912	1	
76	Connection block ECHF	1028391	1	Guide with spring pin from swivel

POS in order of assembly

Option (131cc)



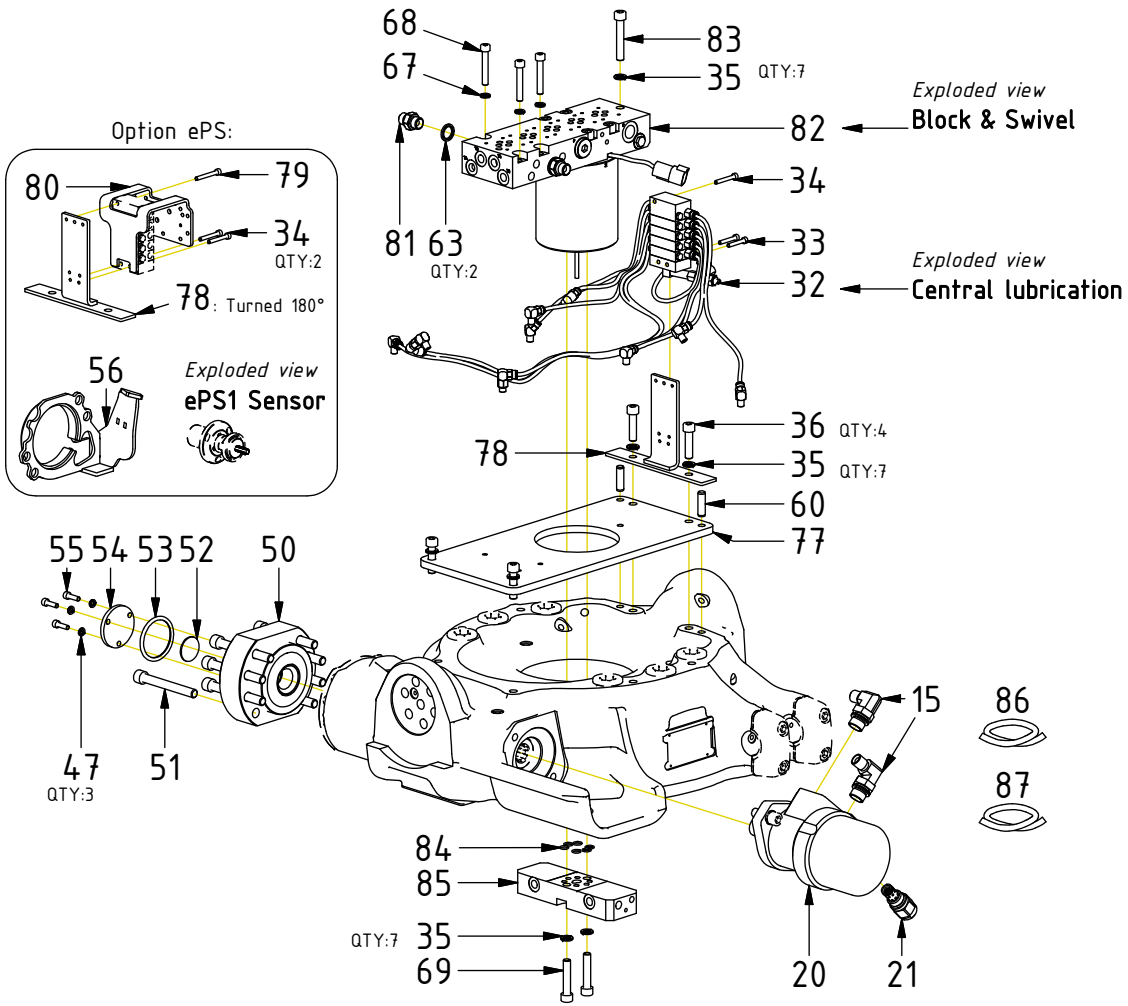
Parts history on p.6

EC219 - Rotator frame

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RELATED SPARE PARTS

EC219 6-ch

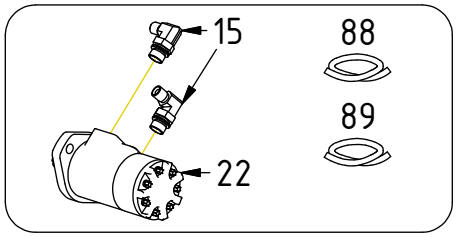


Parts history on p.6

POS	DESCRIPTION	PART	QTY	COMMENTS
15	Adapter 401-06-08 90° (3/8"-1/2")	710157	2	
20	Hydraulic motor White 160cc	7001806	1	
21	Relief valve White 160/200cc	7001647	1	Torque: 55Nm. Assy. before motor
22	Hydraulic motor 131cc	720112	1	Option
32	Lubrication kit	1021135	1	
33	Screw MC6S M5x30 12.9	610403	2	
34	Screw MC6S M5x35 12.9	610404	1	
35	Washer NL 10mm	611041	2	
36	Screw MC6S M10x40 12.9 ZFSHL	612020	2	Torque: 79Nm
47	Washer NL 6mm	611039	2	
50	End lock EC209/EC214/EC219	1016557	1	
51	Screw MC6S M12x100 12.9 ZFSHL	611514	8	Torque: 136Nm
52	Spacer Plate	1065370	1	
53	O-ring 27x5	7000485	1	
54	Cover end lock	1041613	1	
55	Screw MC6S M6x20 A4-80	611513	3	
56	Protection ePS	1033565	1	For ePS1
60	Cylindrical pin	1015672	2	
63	Washer GBR06 3/8	710703	5	
67	Washer NL 8mm	611040	3	
68	Screw MC6S 8x50 12.9	610439	3	
69	Screw MC6S M10x50 12.9 ZFSHL	611515	3	
77	Valve plate 6-ch	1011515	1	
78	Mounting plate lubrication 6-ch	1018052	1	
79	Screw MC6S M5x40 12.9	610405	1	
80	Mounting plate angle sensor ePS	1029973	1	
81	Adapter 136-06-06 (3/8")	710106	2	
82	Valve bl. & Swivel w. slipring Compl.	1030297	1	
83	Screw MC6S M10x60 12.9	610460	1	
84	O-ring 9,25x1,78	710901	6	
85	Connection block 6-ch	202828	1	"1" on swivel against "X" on block
86	Hose hyd motor Long 6-ch 160cc	742635	1	
87	Hose hyd motor Short 6-ch 160cc	742634	1	
88	Hose hyd motor Long 6-ch 131cc	7000327	1	
89	Hose hyd motor Short 6-ch 131cc	7000326	1	

POS in order of assembly

Option (131cc)

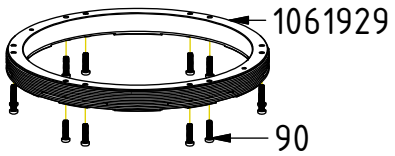


EC219 - Rotator frame

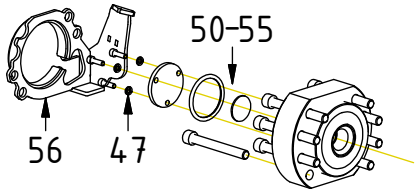
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RELATED SPARE PARTS

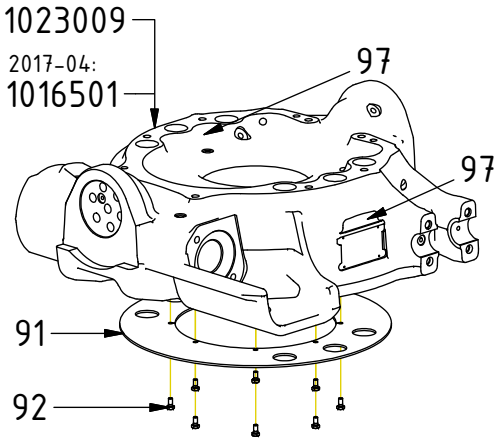
Replaced from 2024-11:



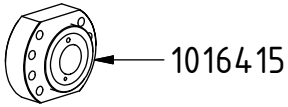
Used on QSM until 2022-04:



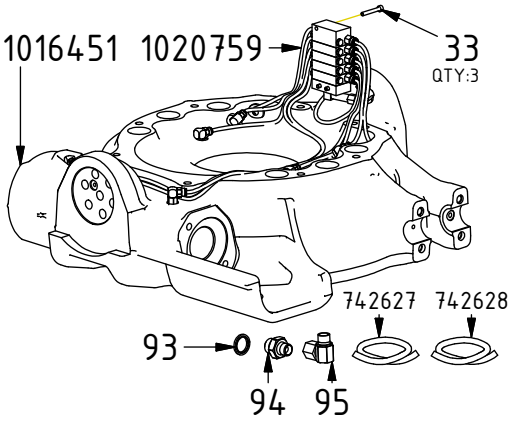
Replaced from 2021-07:



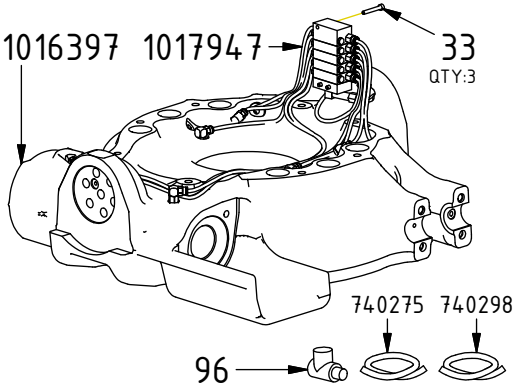
Replaced by POS.50 from 2022-01:

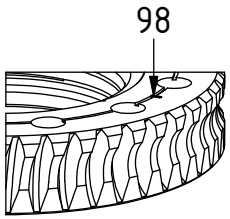


Replaced from 2013-03:

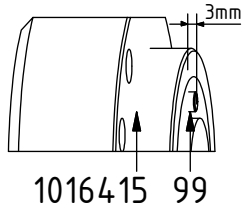


Replaced from 2013-01:

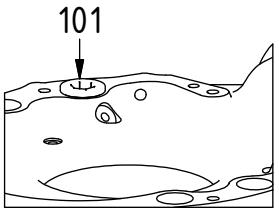




MACS:



(Replaces 1028628)



POS	DESCRIPTION	PART	QTY	COMMENTS
1	Rotator frame EC219 V5	1062295	1	(POS.2-3 incl.)
6	Bearing ring EC219 V2	1077005	1	(Only compatible with 8x25)
25	Screw TX45 8x25 10,9 FZB	1078840	12	Torque: 34Nm Tighten in cross pattern
32	Lubrication kit	1021135	1	
33	Screw MC6S M5x30 12.9	610403	2	
47	Washer NL 6mm	611039	2	
50	End lock EC209/EC214/EC219	1016557	1	
51	Screw MC6S M12x100 12.9 ZFSHL	611514	8	Torque: 136Nm
52	Spacer Plate	1065370	1	
53	O-ring 27x5	7000485	1	
54	Cover end lock	1041613	1	
55	Screw MC6S M6x20 A4-80	611513	3	
56	Protection ePS	1033565	1	For ePS1
90	Screw TX45 M8x30 FZB 10,9	612201	13	Torque: 34Nm. Used with 1061929
91	Wear Washer EC219	1016414	1	Used until 2017-04
92	Screw M6S M6x12 8,8 FZB	610108	8	Used until 2017-04
93	Washer GBR08 1/2	710704	1	Used until 2013-03
94	Adapter 135-06-08	710122	1	Used until 2013-03
95	Adapter 090-06-06 90° (3/8'')	710216	1	Used until 2013-03
96	Adapter DSVW-15 LR	710510	1	Used until 2013-01
97	Old serial number locations			Current location found on p.2
98	MACS Magnet 8x5x3	6000047	1	Loctite 415. Harden 1 minute
99	MACS Inductive sensor M8 PNP	1043698	1	Distance 3mm. Nut torque: 3Nm
100	MACS Inductive sensor M8-M12	1028045	1	Replaced by POS.99 from 2017-08 Distance 4mm. Nut torque: 3Nm
101	MACS Pipe Plug M36/M8	650411	1	

POS in order of assembly