

EC209 - ss9IQ

COVERSHEET

Planned document changes:

Breifly:

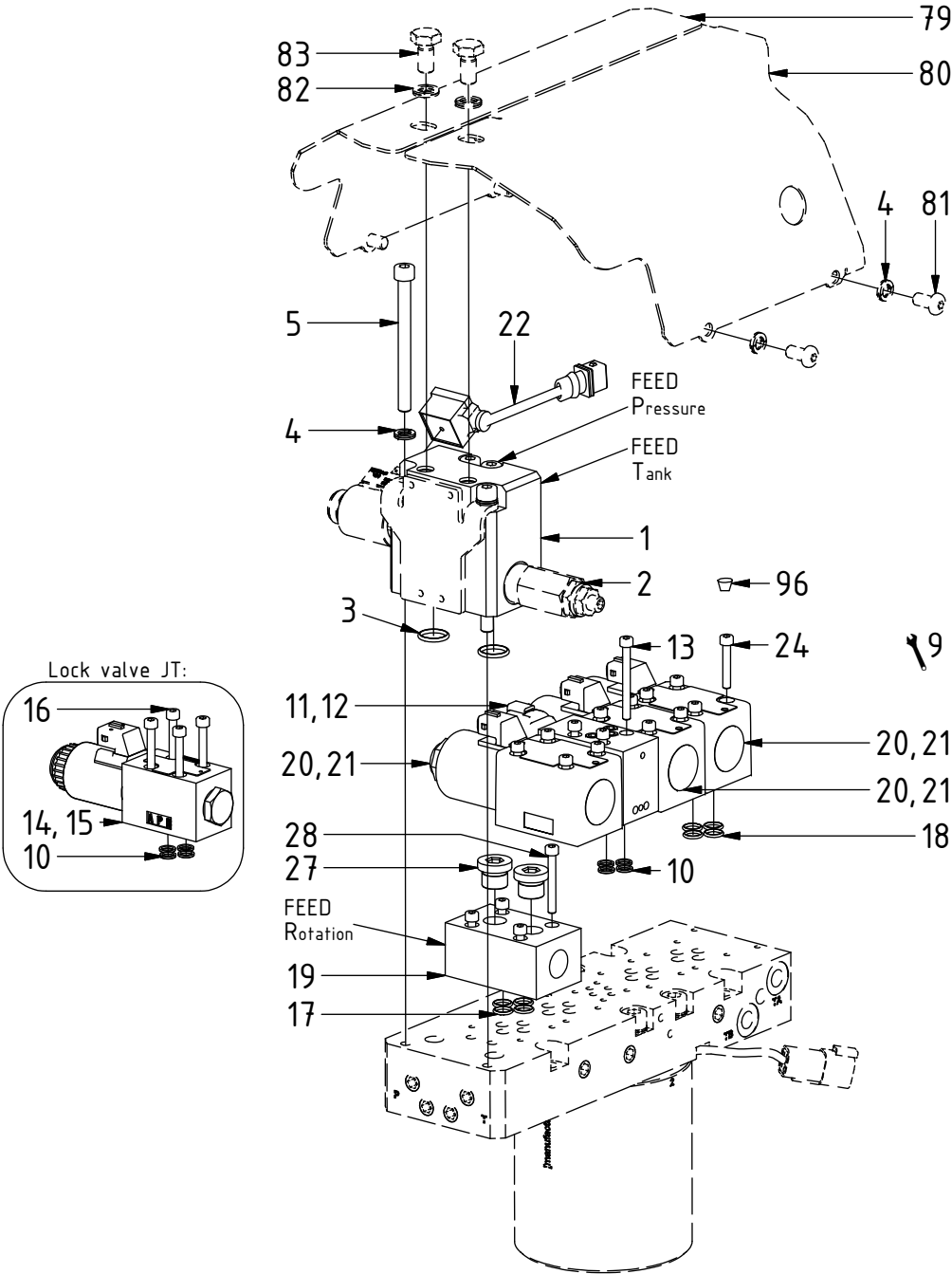
Add spare parts page with option ST (discontinued 2021-02):
O-rings 710901, Connectionblock 405670, Screws 610405, Plugs 711504, Washers 710703,
Adapters 710120. On right side also add washer+adapter 710702+1013885.

Hoses:

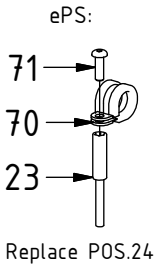
1pc 7000653 on 'a' and 1pc 7000491 on 'b' for HYD Right+Left.
1pc 7000335 on 'a' and 1pc 7000798 on 'b' for UNI.
2pc* 7000491 for QS45/50. (Only *1pc for 'Tilt Right' or 'Tilt Left', add 1pc 7000492).

Document changes:

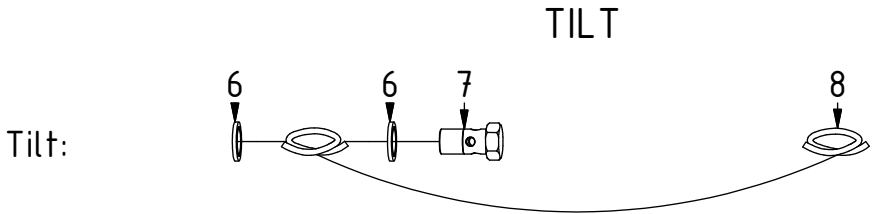
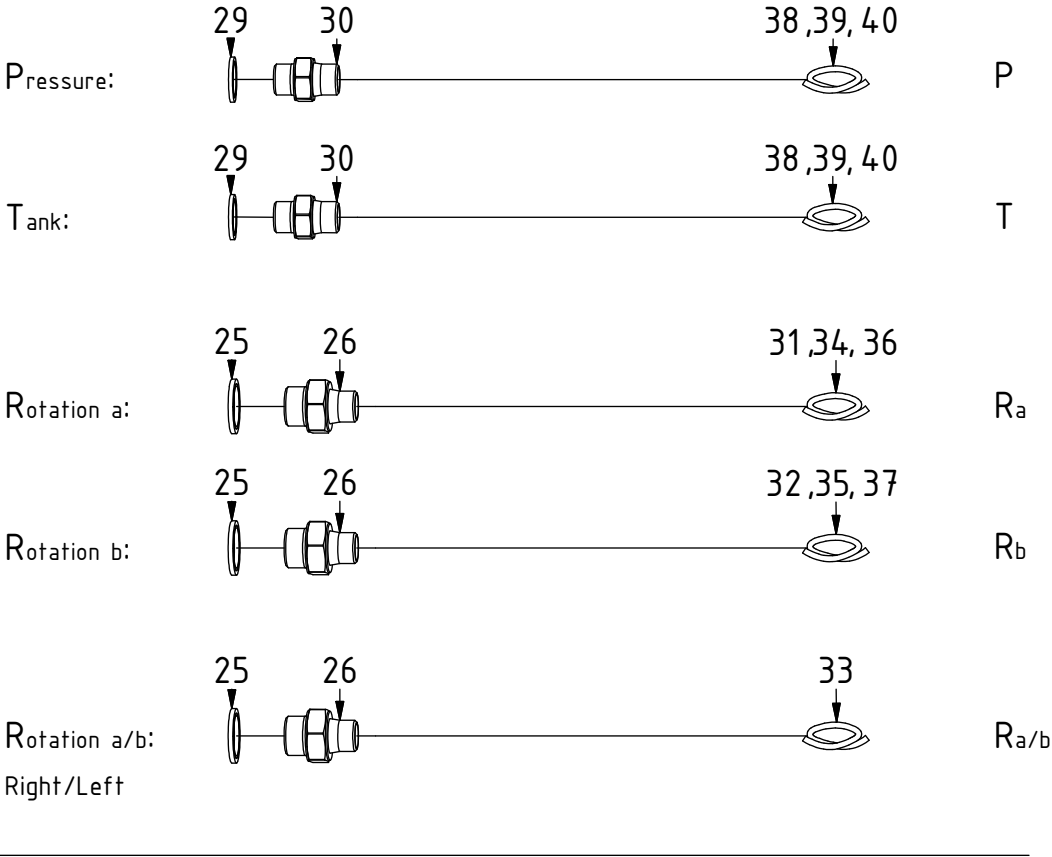
Date:	Change:	Rev. after change:
2023-09-04	O-rings corrected.	D
2022-06-28	Valves updated. New aggregate cable added.	C
2022-02-24	O-rings updated.	B
2021-05-17	Option SX hose kit added.	A
2021-04-13	New instruction.	-



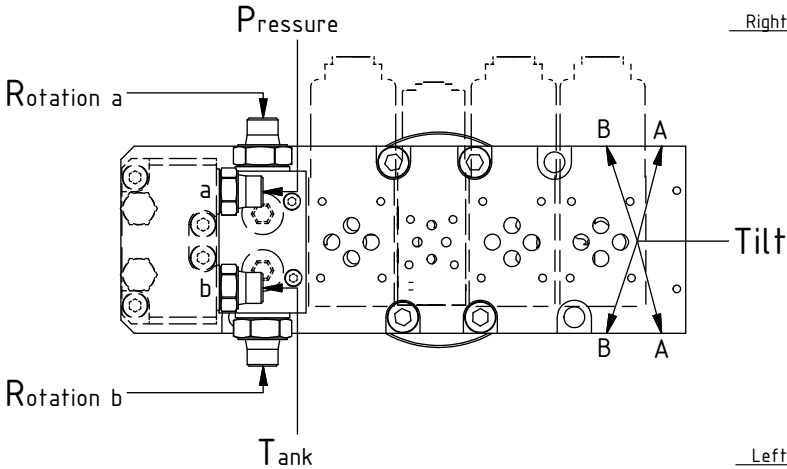
POS	DESCRIPTION	PART	QTY	COMMENTS
1	Dumper block 12V EC209 Complete	1019709	1	(Dump & POS.2 included)
2	Dual relief valve 1CLR100	730287	1	
3	O-ring NBR 70	712402	2	
4	Washer NL 8mm	611040	8	QTY: 4 part of make up
5	MC6S M8x90 12.9	610444	4	
9	For option XP, SX			See p.16 for XP, p.17 for SX
10	O-ring 7,65x1,78	710960	4	
11	Directional valve NG4 IQS 12V DT	1042045	1	QS, CW, ECPUP, ss SIQ (POS.10 included)
12	Directional valve NG4 IQS 24V DT	1042188	1	QS, CW, ECPUP, ss SIQ (POS.10 included)
13	MC6S M5x50 12.9	610407	3	Torque: 9,7Nm
14	Directional valve NG4 12V JT	730312	1	(POS.10 included)
15	Directional valve NG4 24V JT	730310	1	(POS.10 included)
16	MC6S M5x35 12.9	610404	4	Torque: 9,7Nm
17	O-ring 9,25x1,78	710901	4	
18	O-ring 8,75x1,78	710959	12	
19	Connection block 1/2"	405670	1	
20	Directional valve closed 12V	7001619	3	(POS.18 included)
21	Directional valve closed 24V	7001618	3	(POS.18 included)
22	Adapter cable-Hirschmann-Amp	302971	1	
23	Valve spacer ePS	1034402	1	Torque: 9,7Nm
24	MC6S M5x30 12.9	610403	12	Torque: 9,7Nm
27	Plug 70125-06 (3/8")	711504	2	
28	MC6S M5x40 12.9	610405	4	
70	Rubber steel clamp ø16	6000009	1	
71	K6S M5x16 10.9 FZB	611818	1	Torque: 8,1Nm
79	Protective cover EC209 right	1016515	1	
80	Protective cover EC209 left	1016516	1	
81	K6S M8x16 10.9 FZB	611810	4	
82	Washer NL 10mm	611041	6	
83	M6S M10x20 8,8 FZB	610141	2	
96	Plastic plug (red) for valves	790156	12	



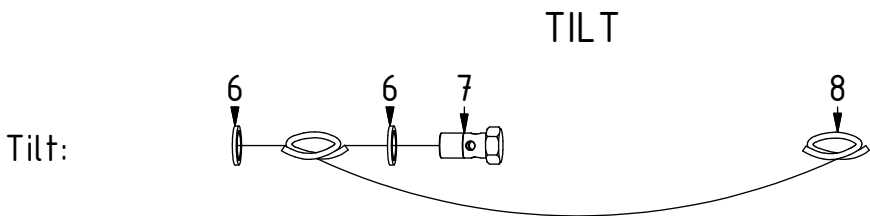
Hoses
FEED (Std)
QS, UNI, HS



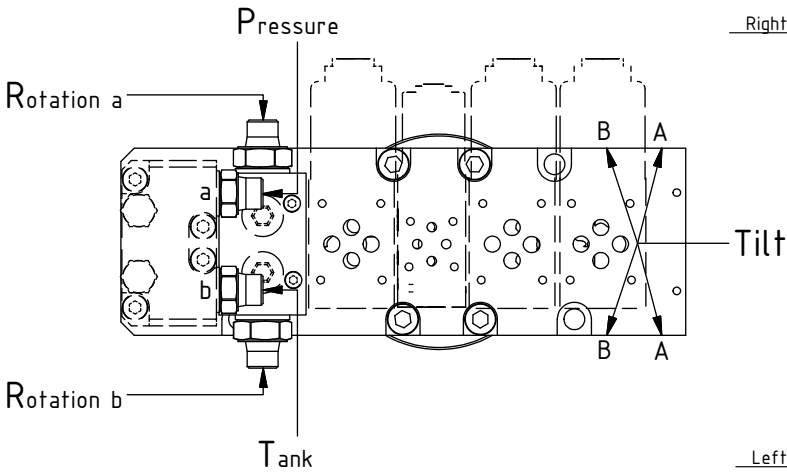
POS	DESCRIPTION	PART	QTY	COMMENTS
6	Washer GBR04 1/4	710702	8	
7	Banjo bolt 4451-04 (1/4")	710271	4	
8	Hose Tilt	7000791	4	
9	For option XP, SX			See p.16 for XP, p.17 for SX
25	Washer GBR08 1/2	710704	2	
26	Adapter 135-06-08	710122	2	
29	Washer GBR06 3/8	710703	2	
30	Adapter 136-06-06 (3/8")	710106	2	
31	Hose Rot. a - QS45/50	7000487	1	
32	Hose Rot. b - QS45/50	7000496	1	
33	Hose Rot. Right / Left - QS45/50	7000488	1	Replaces "a" for Rot. Left Replaces "b" for Rot. Right
34	Hose Rot. a - UNI	7000039	1	
35	Hose Rot. b - UNI	7000040	1	
36	Hose Rot. a - HS08	7000766	1	
37	Hose Rot. b - HS08	7000765	1	
38	Hose Feed - QS45/50	7000012	2	QTY: 1 for Feed Right/Left
39	Hose Feed Right/Left - QS45/50	742814	1	Feed Right: Mount on a-side Feed Left: Mount on b-side
40	Hose Feed - UNI, HS08	742855	2	(Same for Feed Right/Left)



Hoses
FEED (Std)
CW, SW, LE, MM

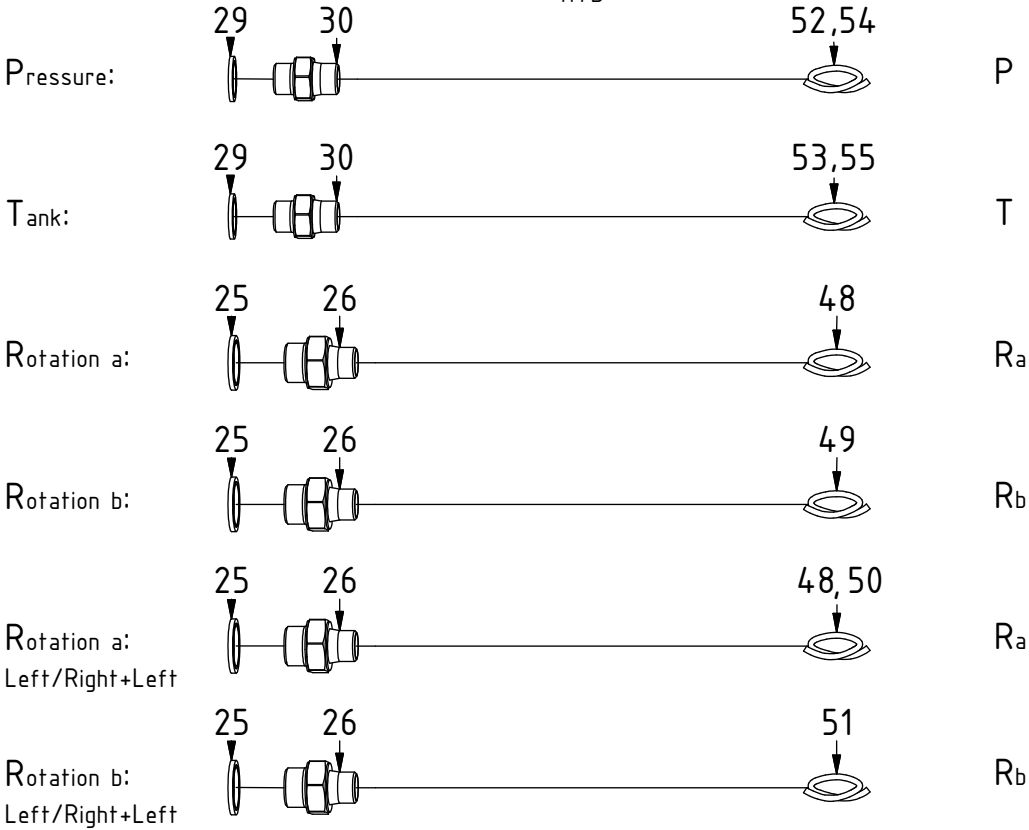


POS	DESCRIPTION	PART	QTY	COMMENTS
6	Washer GBR04 1/4	710702	8	
7	Banjo bolt 4451-04 (1/4")	710271	4	
8	Hose Tilt	7000791	4	
9	For option XP, SX			See p.16 for XP, p.17 for SX
25	Washer GBR08 1/2	710704	2	
26	Adapter 135-06-08	710122	2	
29	Washer GBR06 3/8	710703	2	
30	Adapter 136-06-06 (3/8")	710106	2	
41	Hose Rot. a - CW10, SW33, LE	7000407	1	
42	Hose Rot. b - CW10, SW33, LE	7000707	1	
43	Hose Rot. a - Menzi Muck	7000758	1	
44	Hose Rot. b - Menzi Muck	7000759	1	
45	Hose Feed - CW10, SW33, LE	7000406	2	
46	Hose Feed - Menzi Muck (P)	7000756	1	
47	Hose Feed - Menzi Muck (T)	7000757	1	

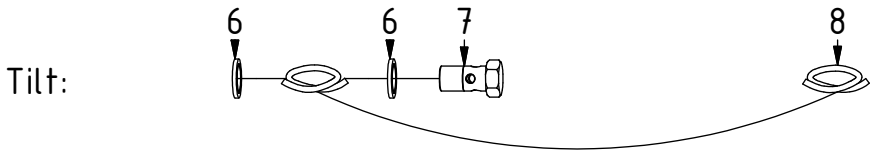


Dashed lines for overview, mounts on other pages/assemblies. indicates instruction. represents hose.

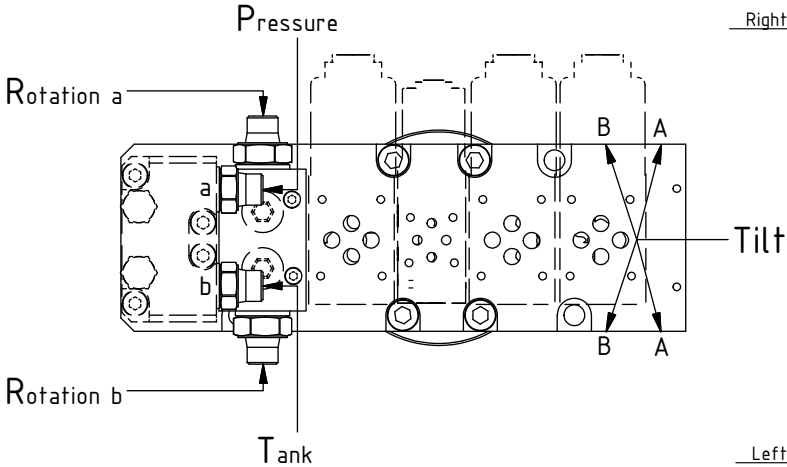
Hoses
FEED (Std)
HYD



TILT



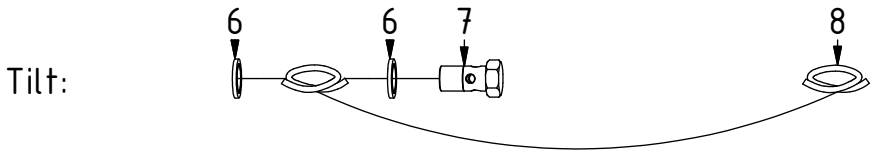
POS	DESCRIPTION	PART	QTY	COMMENTS
6	Washer GBR04 1/4	710702	8	
7	Banjo bolt 4451-04 (1/4")	710271	4	
8	Hose Tilt	7000791	4	
9	For option XP, SX			See p.16 for XP, p.17 for SX
25	Washer GBR08 1/2	710704	2	
26	Adapter 135-06-08	710122	2	
29	Washer GBR06 3/8	710703	2	
30	Adapter 136-06-06 (3/8")	710106	2	
48	Hose Rot. a - HYD	7000600	1	(same for Rot. Right+Left)
49	Hose Rot. b - HYD	7000601	1	
50	Hose Rot. Left a - HYD	7000488	1	Rot. Left: Replace POS.48
51	Hose Rot. Left b - HYD	7000609	1	Rot. Left & Rot. Right+Left: Replace POS.49
52	Hose Feed - HYD (P)	7000012	1	(same for Feed Right+Left)
53	Hose Feed - HYD (T)	742814	1	
54	Hose Feed Right - HYD (P)	7000650	1	Feed Right: Replace POS.52
55	Hose Feed Right - HYD (T)	7000608	1	Feed Right & Feed Right+Left: Replace POS.53



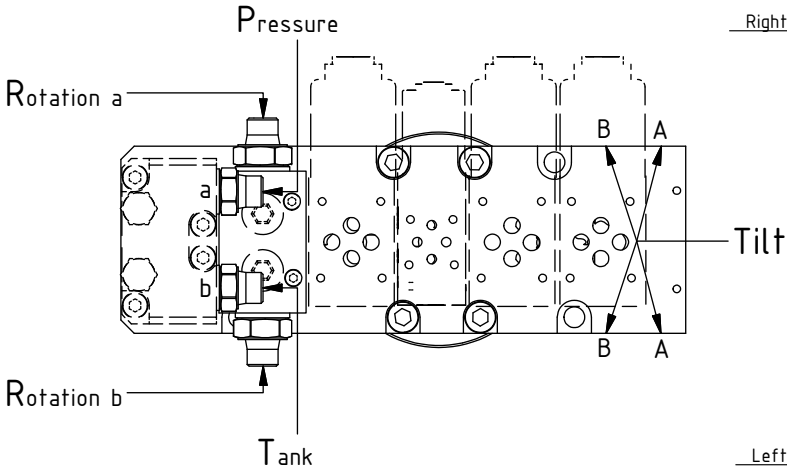
Hoses
FEED EC-Oil



TILT



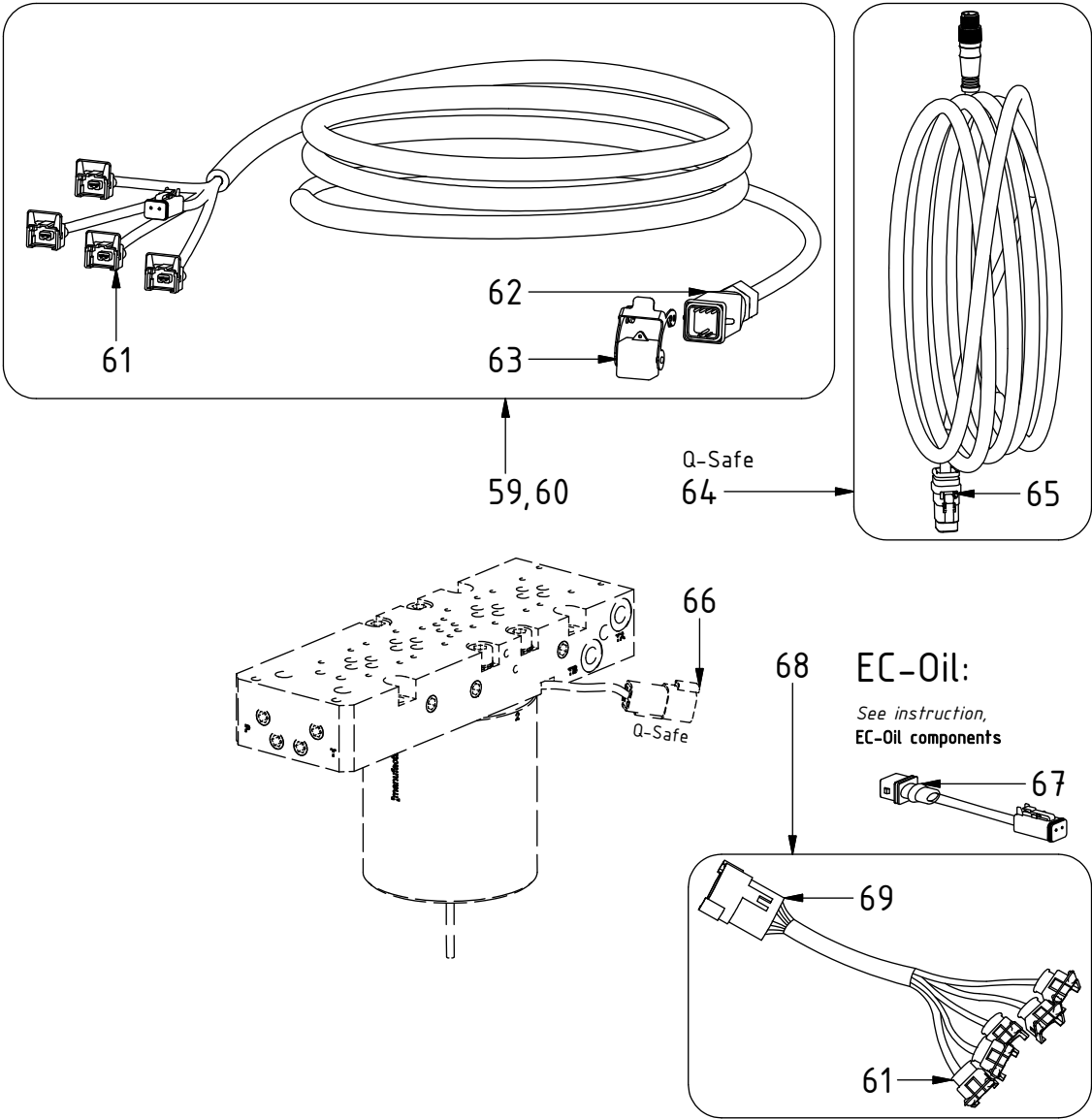
POS	DESCRIPTION	PART	QTY	COMMENTS
6	Washer GBR04 1/4	710702	8	
7	Banjo bolt 4451-04 (1/4")	710271	4	
8	Hose Tilt	7000791	4	
9	For option XP, SX			See p.16 for XP, p.17 for SX
25	Washer GBR08 1/2	710704	2	
26	Adapter 135-06-08	710122	2	
29	Washer GBR06 3/8	710703	2	
30	Adapter 136-06-06 (3/8")	710106	2	
56	Hose Rot. a - EC-Oil	7001526	1	
57	Hose Rot. b - EC-Oil	7001527	1	
58	Hose Feed - EC-Oil	742851	2	



Dashed lines for overview, mounts on other pages/assemblies. indicates instruction. represents hose.

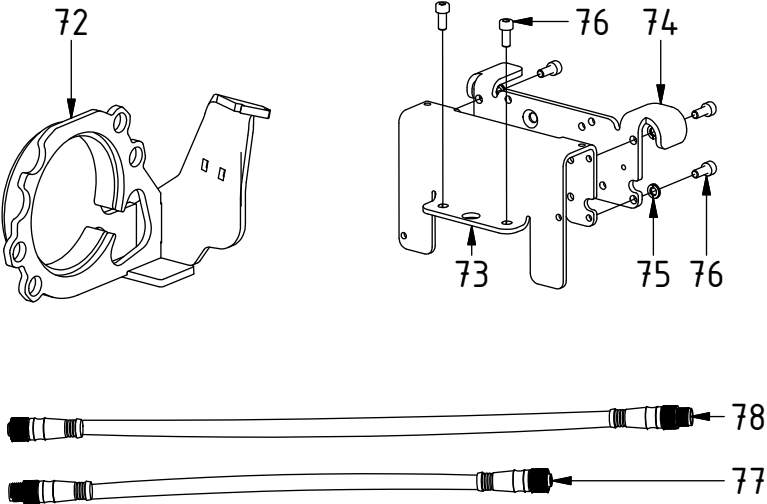
EC209 - ss9lIQ

POS in order of assembly

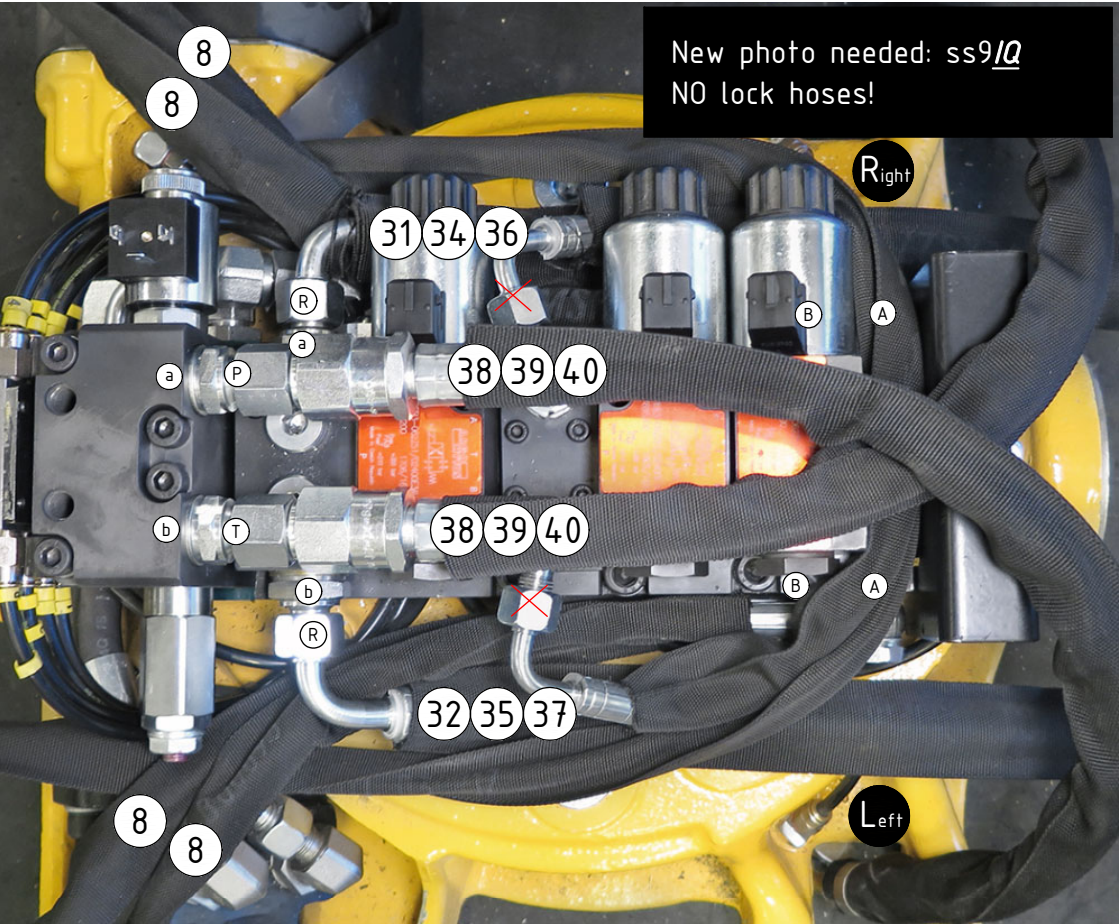


POS	DESCRIPTION	PART	QTY	COMMENTS
59	Agg. cable ss9-2 Dump Compl. DT	8001823	1	
60	Agg. cable ss9-2 Dump Compl. JT	1032909	1	For Lock valve JT. Replace POS.59
61	Connector JT	810218	5	
62	ILME contact Male 12P Complete	841192	1	
63	ILME cover 12P contact with jumper	810208	1	
64	Cable QS QLM tiltrotator SVAB	842148	1	For Q-Safe
65	Connector Deutsch DTM06-6S	8000053	1	
66	Only for Q-Safe, connector			Attach to POS.64 or See EC-Oil comp.
67	Adapter cable DT-JT	1017478	1	For EC-Oil
68	Adapter cable ECO (DTM) SVAB	1029599	2	For EC-Oil. Replace POS.59 & 64
69	Connector Deutsch DTM04-12P	8000177	1	
72	Protection ePS	1033565	1	
73	Bracket ePS	1038301	1	
74	Adapter plate ePS (Not Trimble)	1039019	1	(Trimble directly on POS.73)
75	Washer NL 5 mm	611038	4	
76	MC6S M5x12 12.9	6000077	6	
77	Adapter cable ePS rotation sensor	8000784	1	Cut cable protection: 130mm
78	Ag.cable SVAB ePS w. 120 ohm ter.	8000824	1	

ePS:

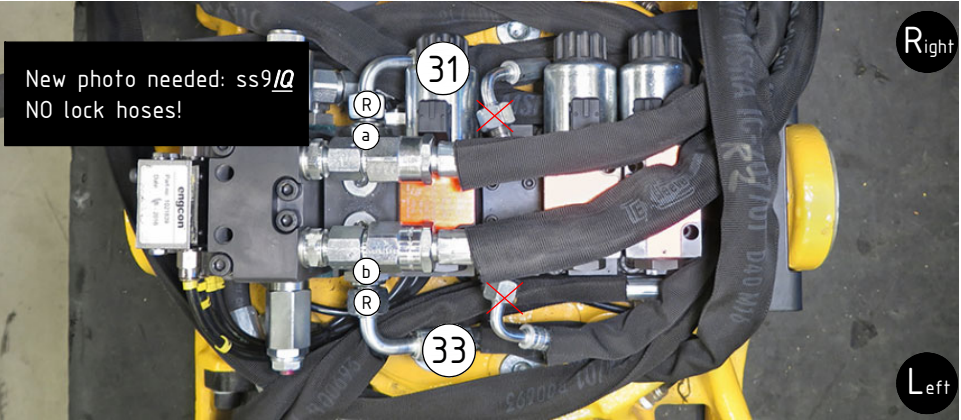


Hoses
QS45/50, UNI, HS08

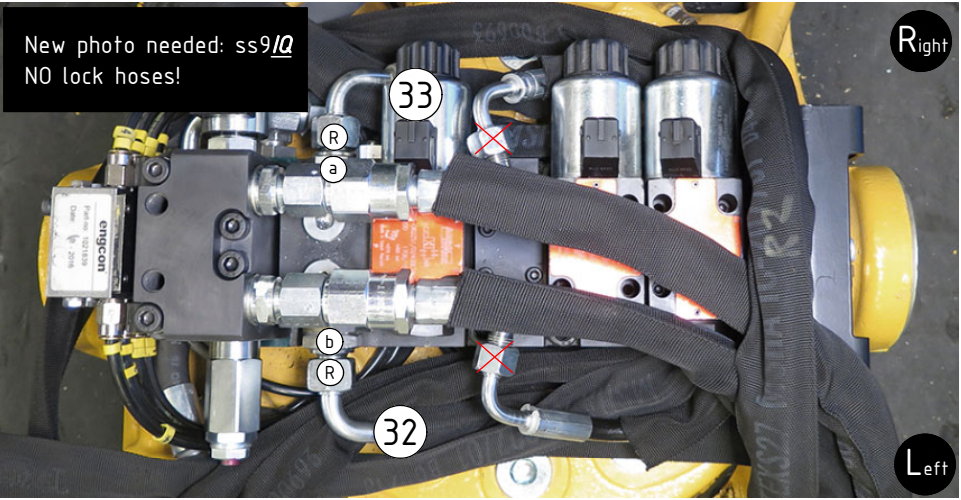


POS	DESCRIPTION	PART	QTY	COMMENTS
8	Hose Tilt	7000791	4	
31	Hose Rot. a - QS45/50	7000487	1	
32	Hose Rot. b - QS45/50	7000496	1	
33	Hose Rot. Right / Left - QS45/50	7000488	1	Replaces "a" for Rot. Left Replaces "b" for Rot. Right
34	Hose Rot. a - UNI	7000039	1	
35	Hose Rot. b - UNI	7000040	1	
36	Hose Rot. a - HS08	7000766	1	
37	Hose Rot. b - HS08	7000765	1	
38	Hose Feed - QS45/50	7000012	2	QTY: 1 for Feed Right/Left
39	Hose Feed Right/Left - QS45/50	742814	1	Feed Right: Mount on a-side Feed Left: Mount on b-side
40	Hose Feed - UNI, HS08	742855	2	(Same for Feed Right/Left)

QS45/50 Rot. Right:

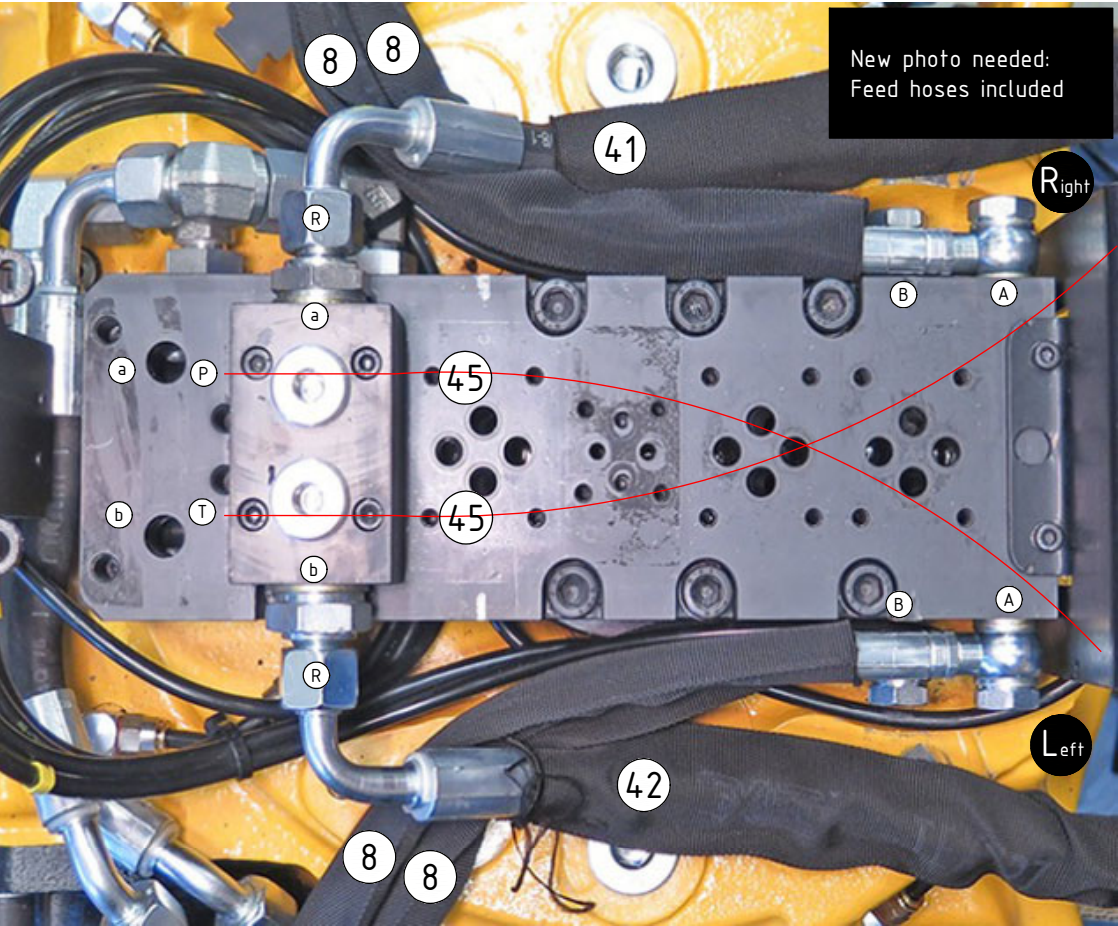


QS45/50 Rot. Left:



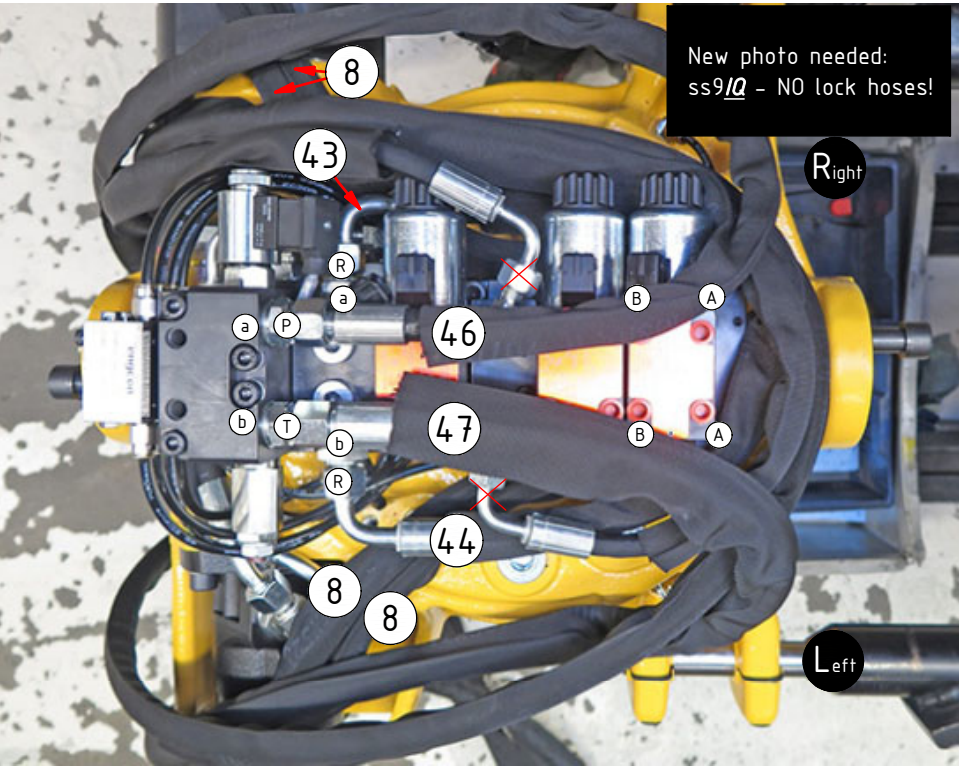
Dashed lines for overview, mounts on other pages/assemblies. \ indicates instruction. represents hose.

Hoses
CW10, SW33, LE



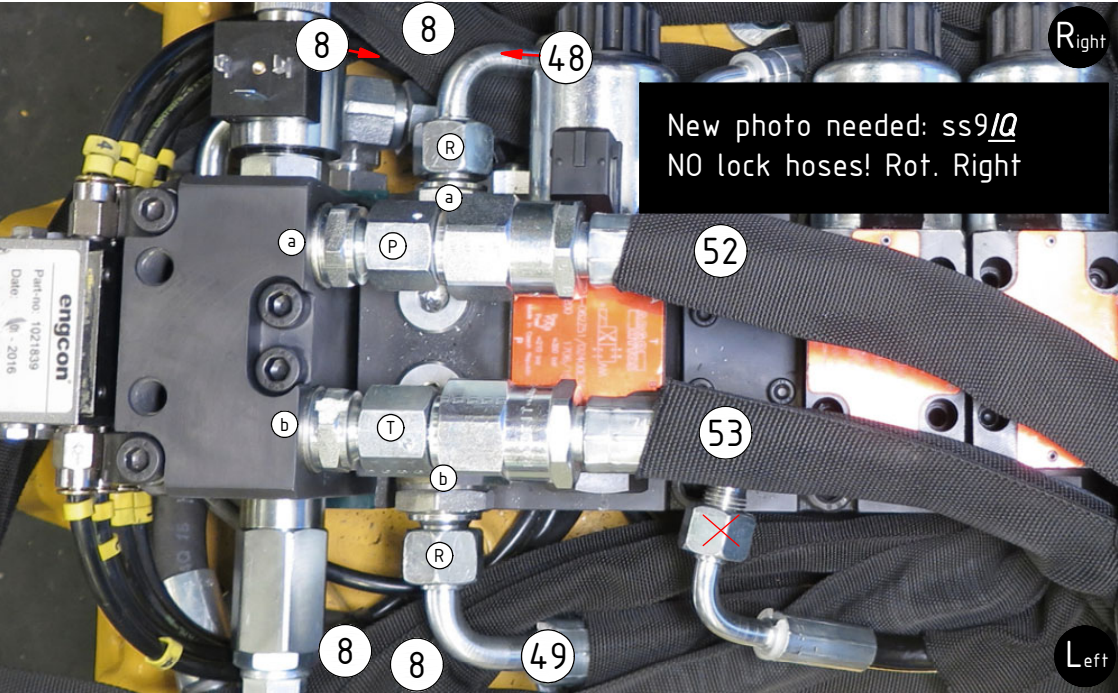
POS	DESCRIPTION	PART	QTY	COMMENTS
8	Hose Tilt	7000791	4	
41	Hose Rot. a - CW10, SW33, LE	7000407	1	
42	Hose Rot. b - CW10, SW33, LE	7000707	1	
43	Hose Rot. a - Menzi Muck	7000758	1	
44	Hose Rot. b - Menzi Muck	7000759	1	
45	Hose Feed - CW10, SW33, LE	7000406	2	
46	Hose Feed - Menzi Muck (P)	7000756	1	
47	Hose Feed - Menzi Muck (T)	7000757	1	

Menzi Muck

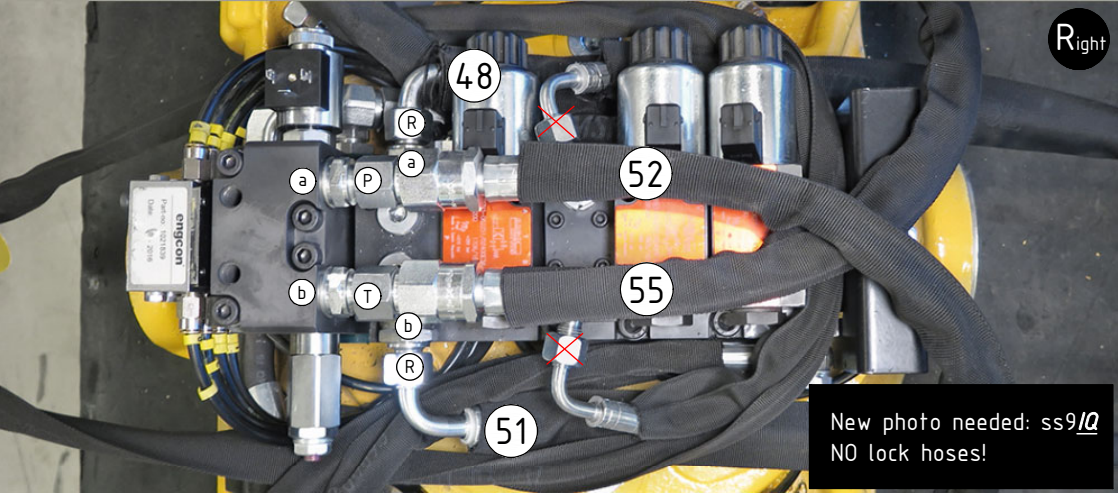


Rotation hoses crossed behind valve block, all hoses go to the left.

Hoses
HYD

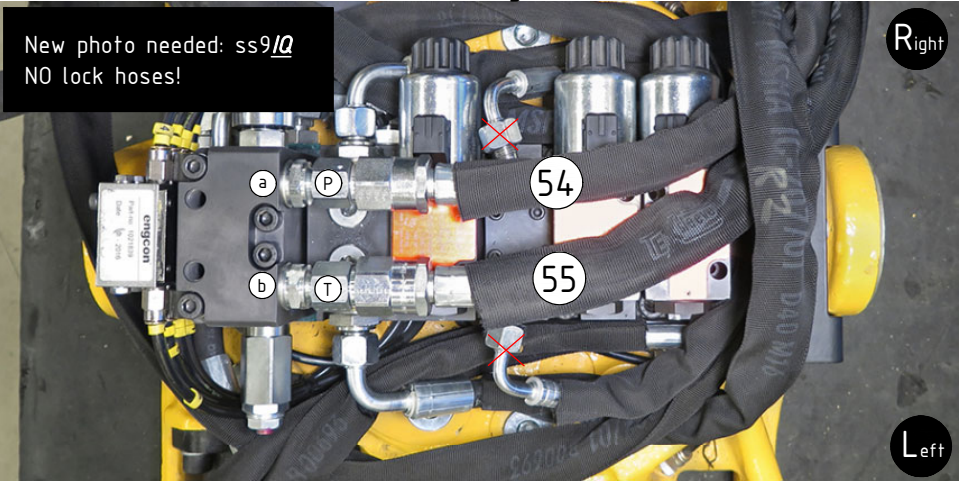


Feed Right+Left / Rot. Right+Left:

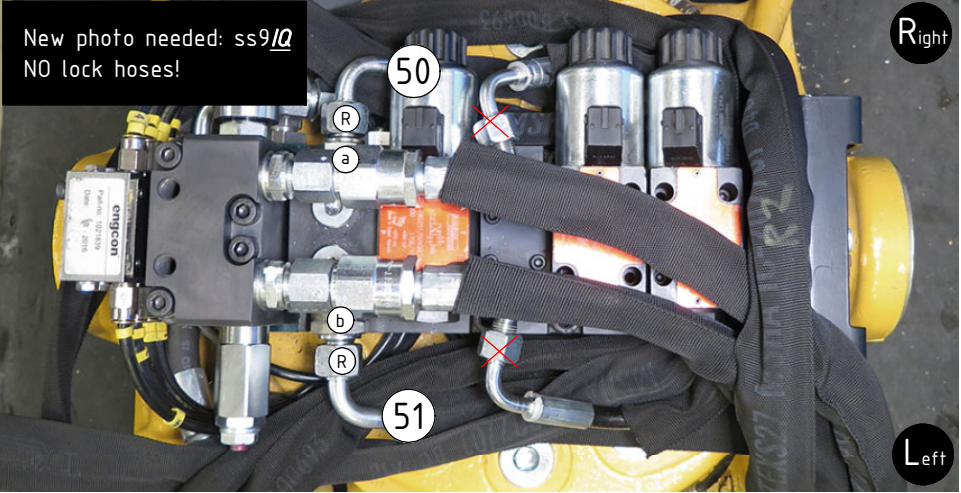


POS	DESCRIPTION	PART	QTY	COMMENTS
8	Hose Tilt	7000791	4	
48	Hose Rot. a - HYD	7000600	1	(same for Rot. Right+Left)
49	Hose Rot. b - HYD	7000601	1	
50	Hose Rot. Left a - HYD	7000488	1	Rot. Left: Replace POS.48
51	Hose Rot. Left b - HYD	7000609	1	Rot. Left & Rot. Right+Left: Replace POS.49
52	Hose Feed - HYD (P)	7000012	1	(same for Feed Right+Left)
53	Hose Feed - HYD (T)	742814	1	
54	Hose Feed Right - HYD (P)	7000650	1	Feed Right: Replace POS.52
55	Hose Feed Right - HYD (T)	7000608	1	Feed Right & Feed Right+Left: Replace POS.53

Feed Right:



Rot. Left:



Dashed lines for overview, mounts on other pages/assemblies. \ indicates instruction. represents hose.

Hoses
Top EC-Oil

POS	DESCRIPTION	PART	QTY	COMMENTS
8	Hose Tilt	7000791	4	
56	Hose Rot. a - EC-Oil	7001526	1	
57	Hose Rot. b - EC-Oil	7001527	1	
58	Hose Feed - EC-Oil	742851	2	

POS in order of assembly

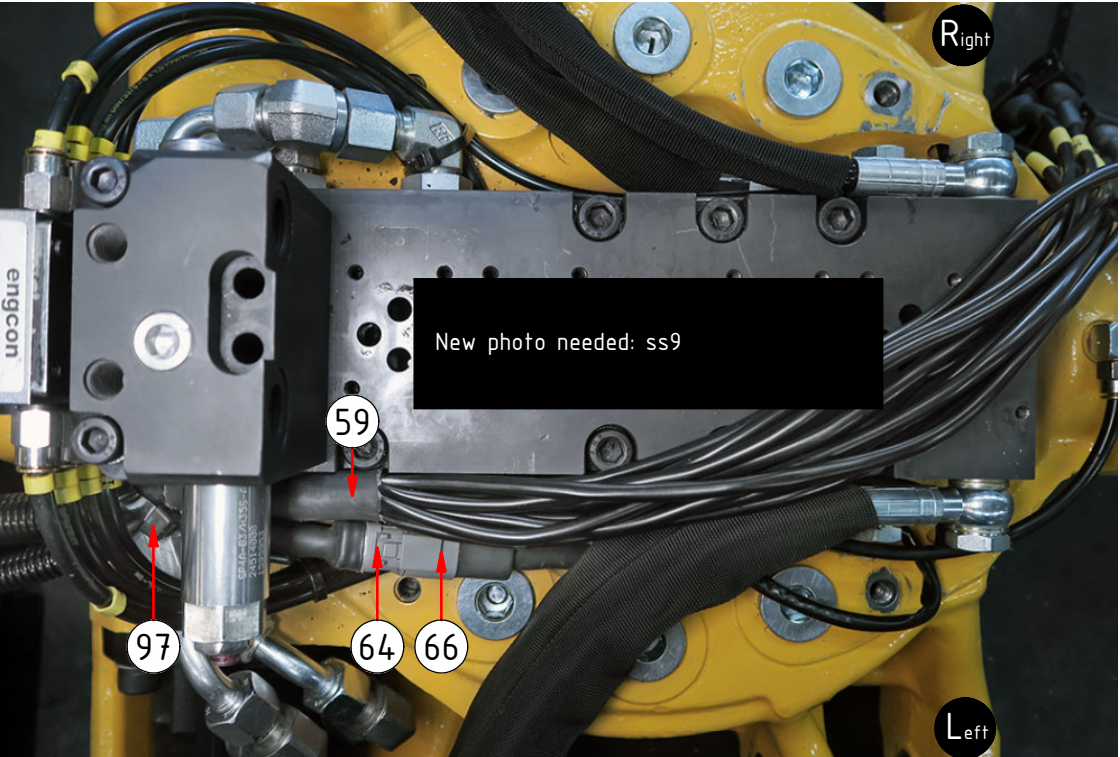


Std

POS	DESCRIPTION	PART	QTY	COMMENTS
59	Agg. cable ss9-2 Dump Compl. DT	8001823	1	
60	Agg. cable ss9-2 Dump Compl. JT	1032909	1	For Lock valve JT. Replace POS.59
64	Cable QS QLM tiltrotator SVAB	842148	1	For Q-Safe
66	Only for Q-Safe, connector			
97	Cable tie 7,8x360	1021587	1	

POS in order of assembly

Cables/connectors:

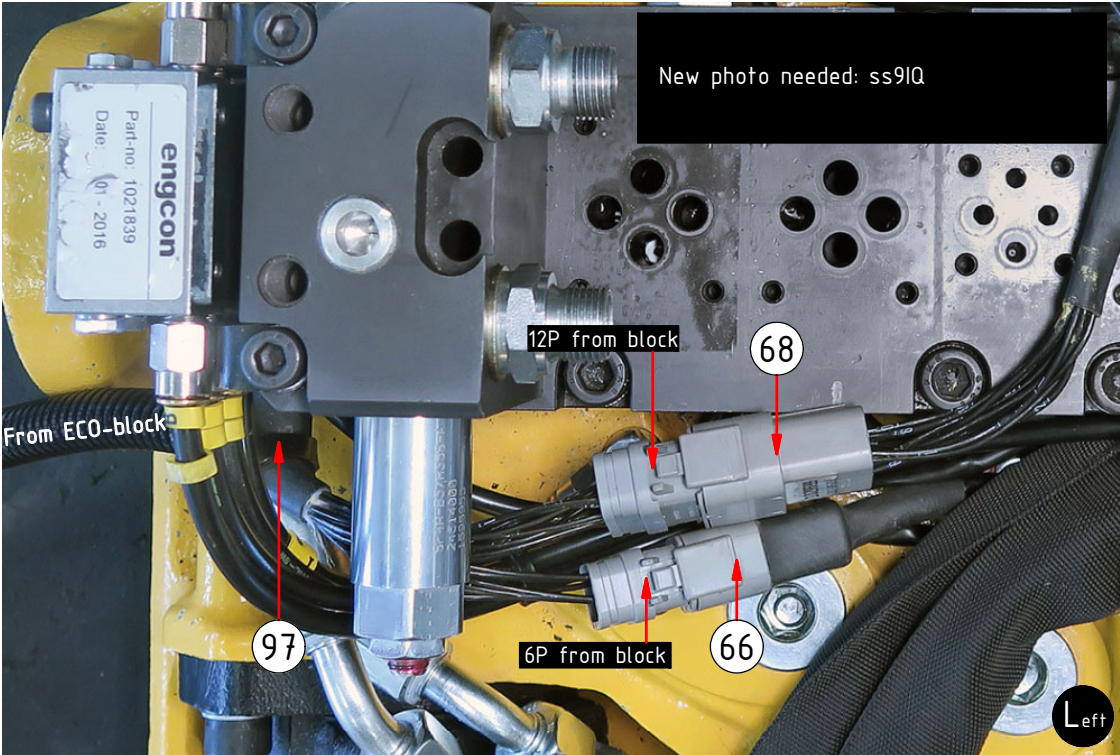


See instruction,
EC-Oil components

Top EC-Oil

POS	DESCRIPTION	PART	QTY	COMMENTS
66	Only for Q-Safe, connector			Attach to 6P from ECO-block
68	Adapter cable ECO (DTM) SVAB	1029599	2	For EC-Oil. Replace POS.59 & 64
97	Cable tie 7,8x360	1021587	1	
98	Cable tie 4,8x360	1021586	1	

Cables/connectors:



Lubrication:



Replace pre-mounted
pipe (50mm) with:
7000578 & 712216

Dashed lines for overview, mounts on other pages/assemblies. \ indicates instruction. represents hose.

ePS

Cables/connectors:

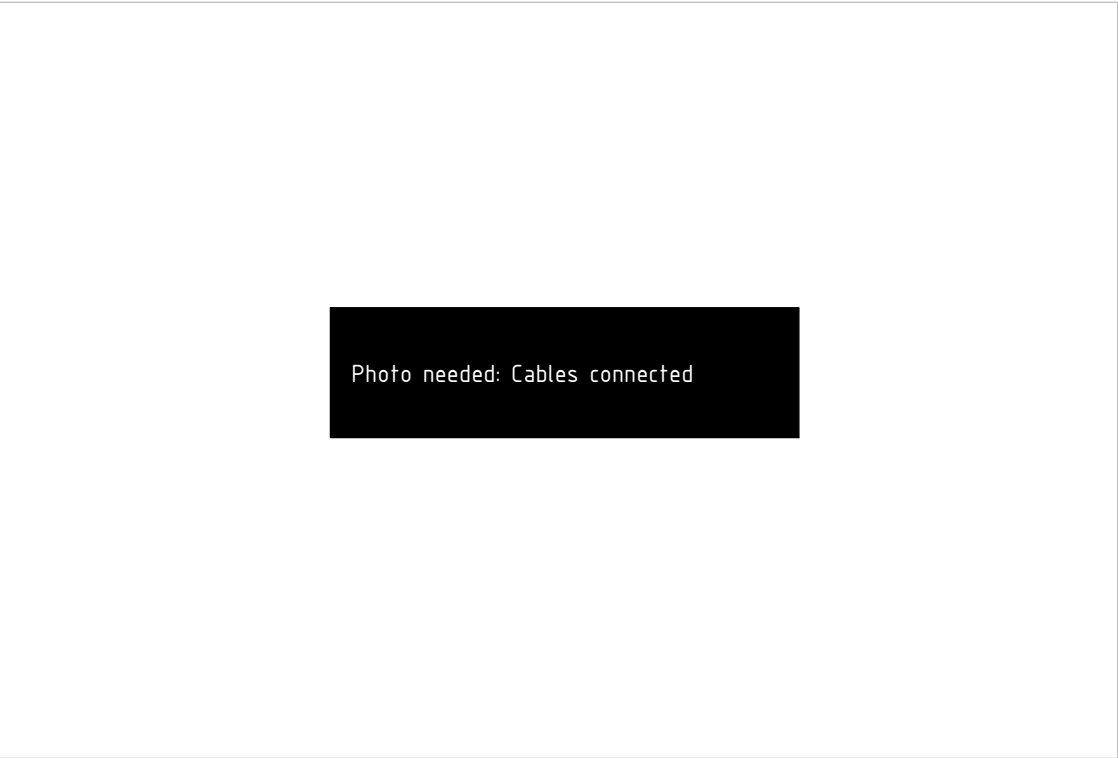


Photo needed: Cables connected

POS	DESCRIPTION	PART	QTY	COMMENTS
59	Agg. cable ss9-2 Dump Compl. DT	8001823	1	
60	Agg. cable ss9-2 Dump Compl. JT	1032909	1	For Lock valve JT. Replace POS.59
64	Cable QS QLM tiltrotator SVAB	842148	1	For Q-Safe
66	Only for Q-Safe, connector			
77	Adapter cable ePS rotation sensor	8000784	1	Cut cable protection: 130mm
78	Ag.cable SVAB ePS w. 120 ohm ter.	8000824	1	
97	Cable tie 7,8x360	1021587	1	
98	Cable tie 4,8x360	1021586	1	

Sensor connection:

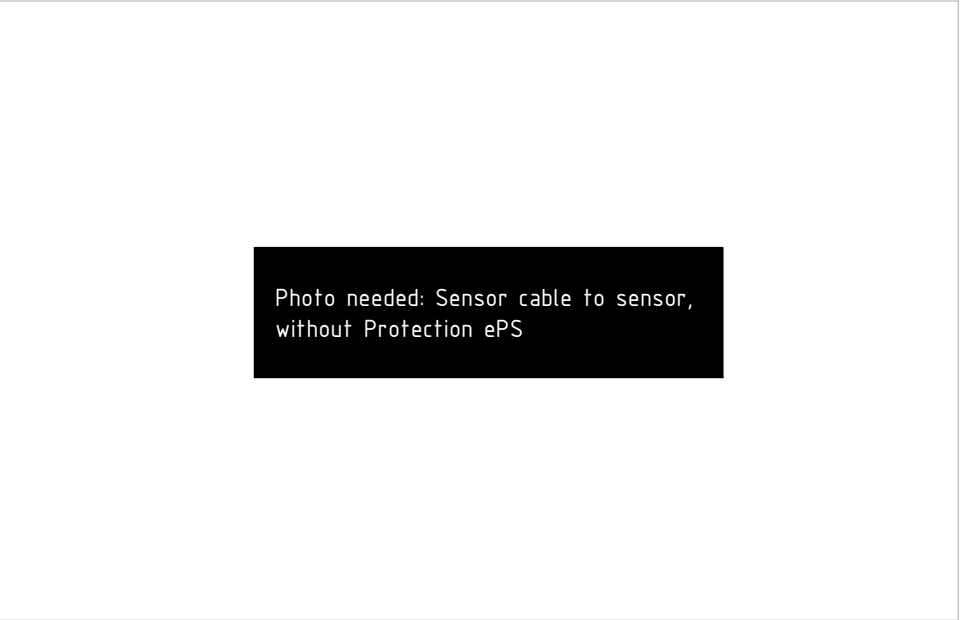


Photo needed: Sensor cable to sensor, without Protection ePS

Sensor cable:

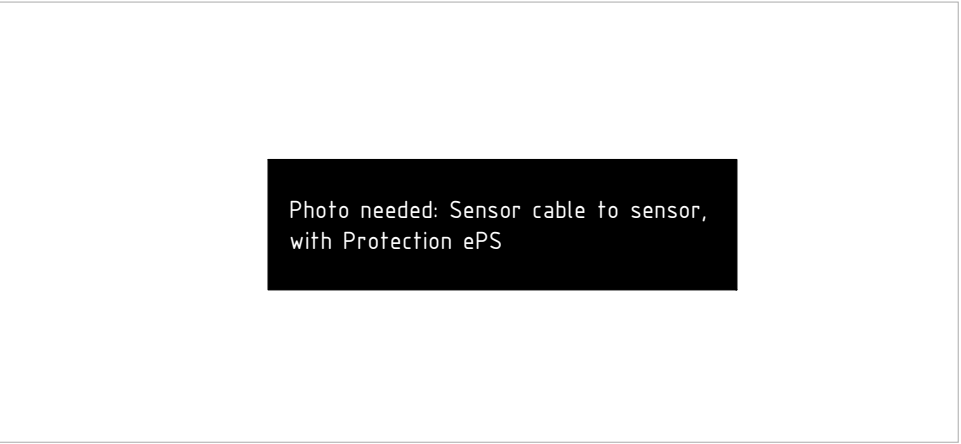


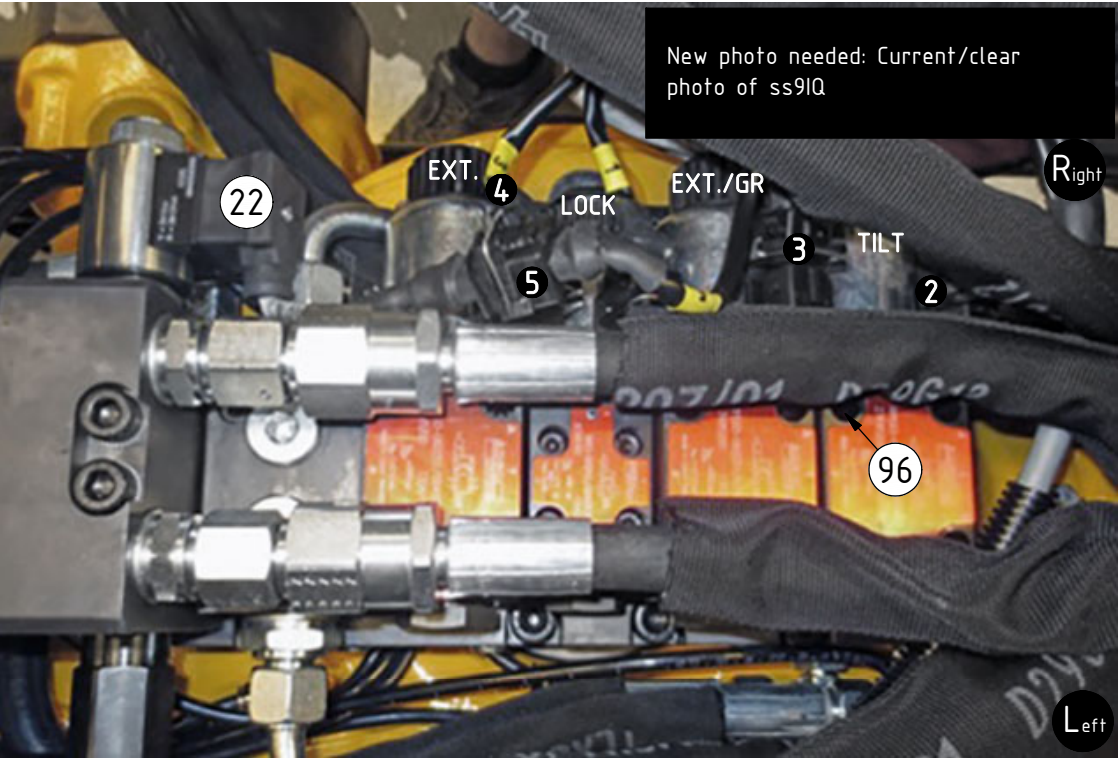
Photo needed: Sensor cable to sensor, with Protection ePS

Valve connections

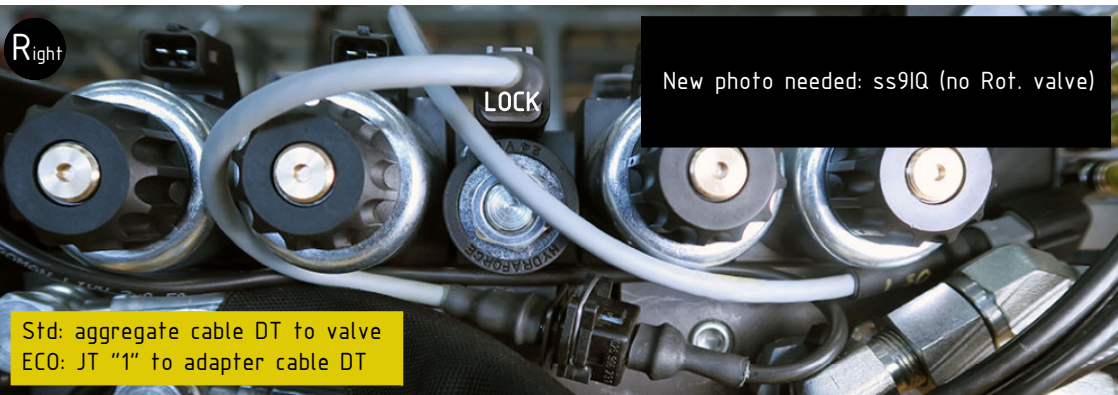
POS	DESCRIPTION	PART	QTY	COMMENTS
22	Adapter cabel-Hirschmann-Amp	302971	1	
67	Adapter cable DT-JT	1017478	1	For EC-Oil
96	Plastic plug (red) for valves	790156	12	

POS in order of assembly

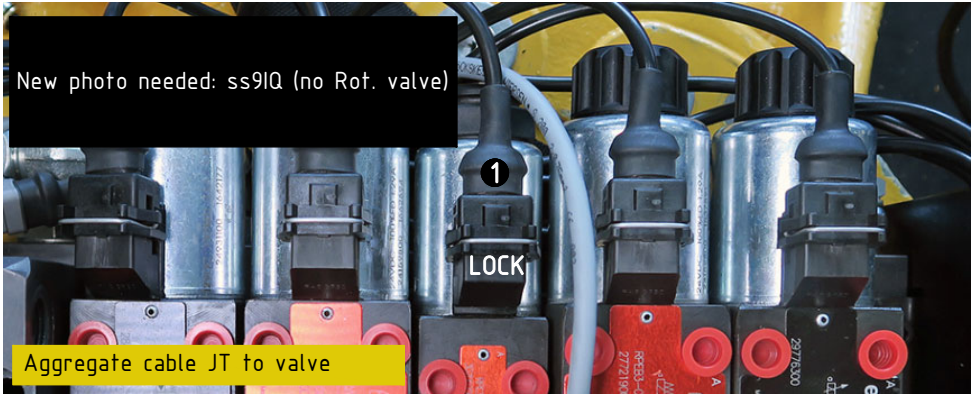
JT marked with numbers:



Lock valve IQS DT:

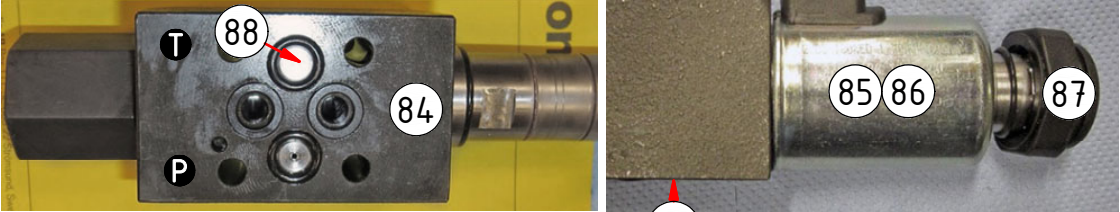


Lock valve JT:

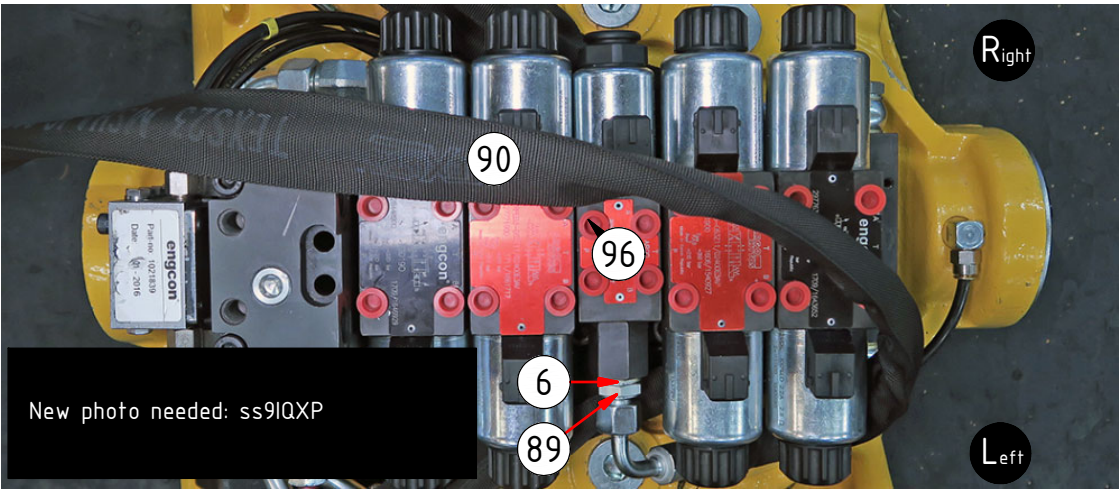


Dashed lines for overview, mounts on other pages/assemblies. indicates instruction. represents hose.

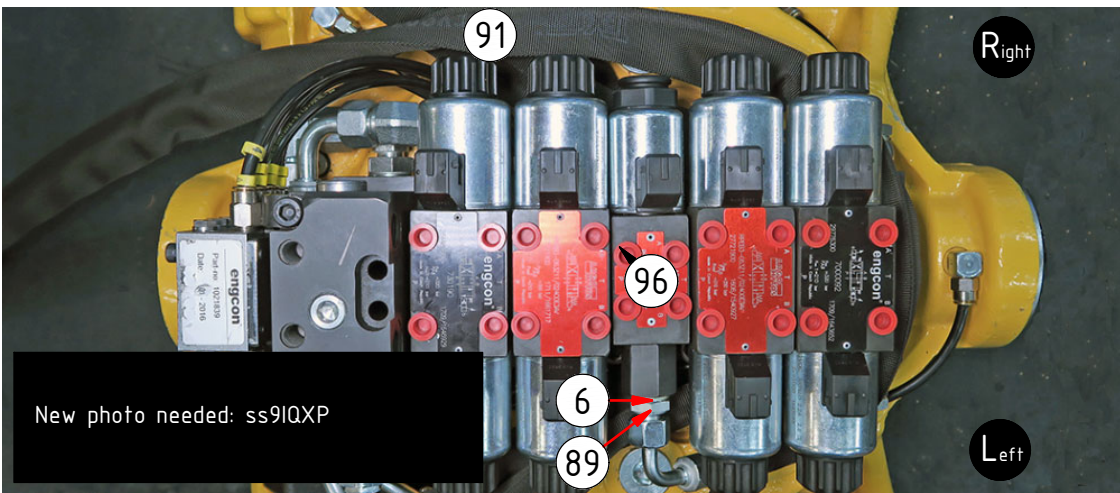
Valve: Option XP



Hose (UNI):

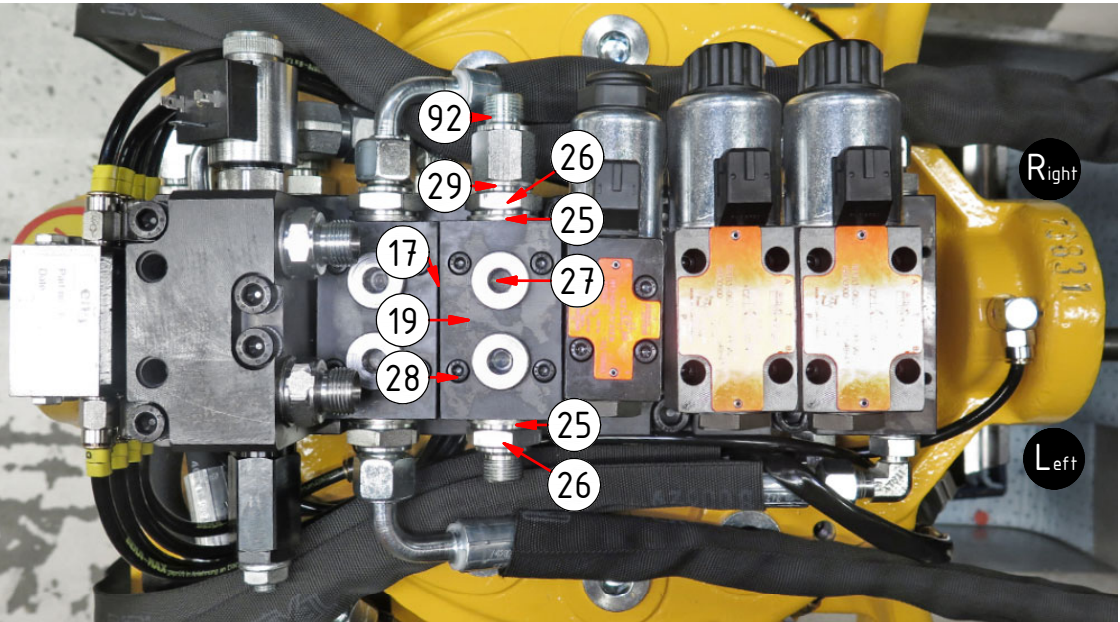


Hose (others):



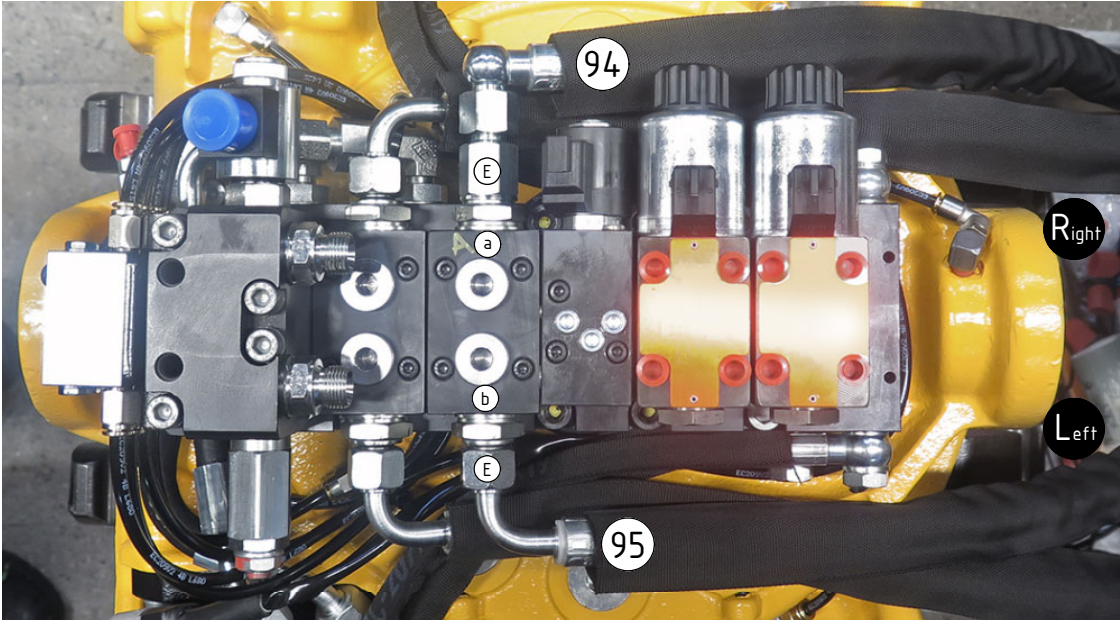
POS	DESCRIPTION	PART	QTY	COMMENTS
6	Washer GBR04 1/4	710702	8	
16	MC6S M5x35 12.9	610404	4	Torque: 9,7Nm
84	Directional valve XP crossparallel NG4 without Coil	730321	1	Nut (POS.87) and o-ring with chokenozzle included. Assemble with POS.85/86
85	Coil NG4 12V JT	730313	1	
86	Coil NG4 24V JT	730311	1	
87	Nut directional valve NG4	1006785	1	
88	Plug D0 for NG4 / VRP2-04	790191	1	Not for HS08 O-ring included
89	Adapter 138-04-29 (1/4")	710135	1	
90	Hose Drainage XP - UNI	7000041	1	For UNI top parts
91	Hose Drainage XP	7000489	1	For other top parts
96	Plastic plug (red) for valves	790156	12	

Block: Option SX



POS	DESCRIPTION	PART	QTY	COMMENTS
17	O-ring 9,25x1,78	710901	4	
19	Connection block 1/2"	405670	1	
25	Washer GBR08 1/2	710704	2	
26	Adapter 135-06-08	710122	2	
27	Plug 70125-06 (3/8")	711504	2	
28	MC6S M5x40 12.9	610405	4	
29	Washer GBR06 3/8	710703	2	
92	Adapter 236-06-06 (3/8")	710131	1	
93	Hose kit SX	7000603	1	(POS.94-95 included)
94	Hose Feed Extra a	7000495	1	
95	Hose Feed Extra b	7000369	1	

Hoses (QS45/50):



Dashed lines for overview, mounts on other pages/assemblies. indicates instruction. represents hose.

Related spare parts

POS	DESCRIPTION	PART	QTY	COMMENTS
17	O-ring 9,25x1,78	710901	4	
18	O-ring 8,75x1,78	710959	12	
20	Directional valve closed 12V	7001619	3	(POS.18 included)
21	Directional valve closed 24V	7001618	3	(POS.18 included)
99	Argo hytos valve closed 12V	730112	1	Replaced by POS.20 (ATOS)
100	Argo hytos valve closed 24V	730110	1	Replaced by POS.21 (ATOS)

POS in order of assembly

Used until 2022-06

