

Std Valves & cables - ss9 ECHF

COVERSHEET

Planned document changes:

Breifly:

Add Torque: 9,7Nm to POS.40.
Correct Torque for POS.14: 9,7Nm.
Replace 1pc of POS.43 to 611818. Torque: 8,1Nm.

Move "ePS" to spare parts page. (EC214PS-EC233PS).
Add reference to ePS2 Sensors instead.
EC214S-EC233S without EC-Oil: use POS.37 (part of ePS2 sensors).
EC214S-EC233S with EC-Oil: use POS.38 (part of ePS2 Sensors).

ss9IQ: POS.10 with POS.24 replaced by 8001823.
ss9SQ: POS.23 with POS.24 replaced by 8001823 & DT bridge 1034439.

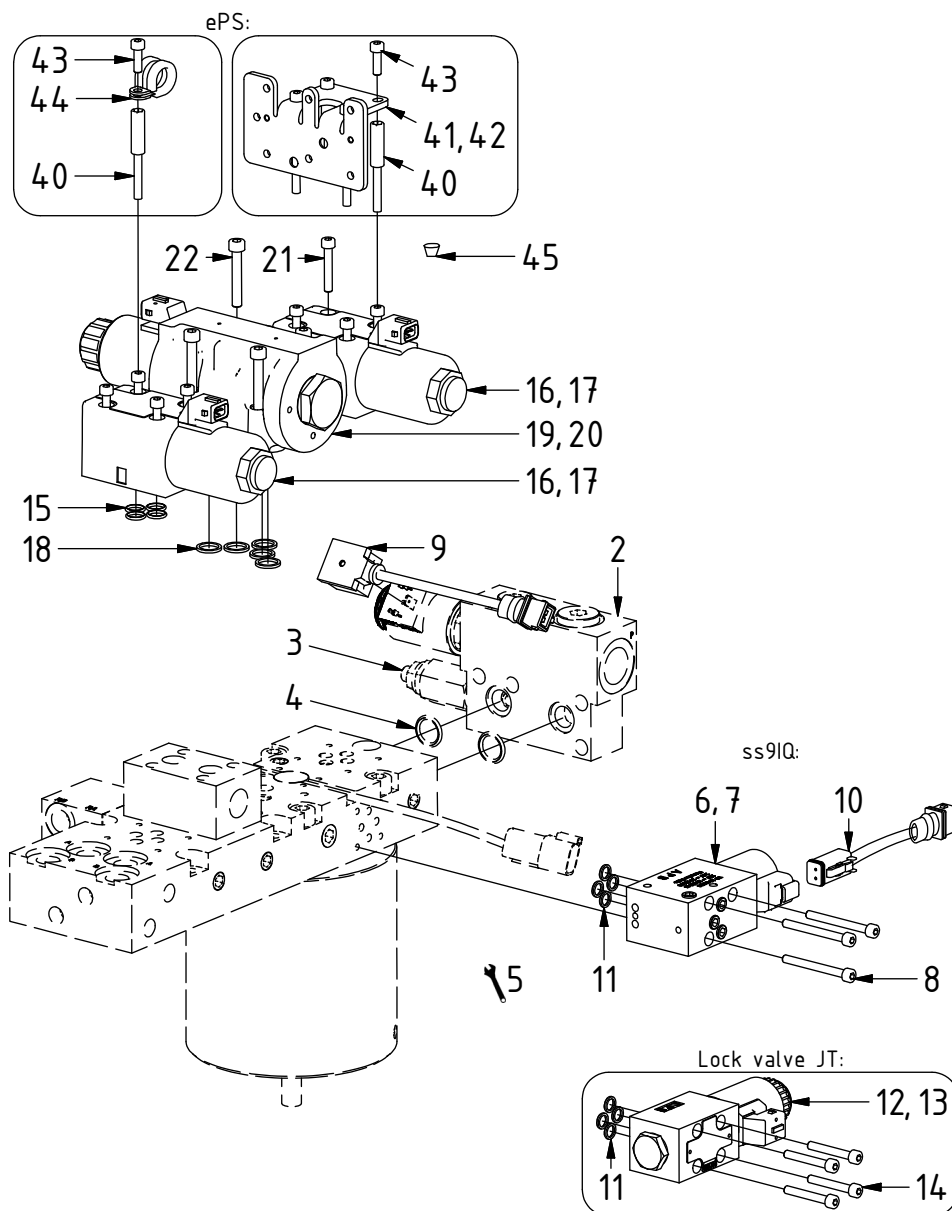
Changes for EC214:
POS.16 replaced by 7001618. POS.17 replaced by 7001619.
(O-ring for these valves: 710959).

Document changes:

Date:	Change:	Rev. after change:
2022-02-22	O-rings updated.	D
2021-04-26	Jumper for ss9SQ added.	C
2020-12-30	Hirschmann adapter cable added.	B
2020-08-21	EC226 ePS protection replaced.	A
2019-12-13	New instruction.	-

Std Valves & cables - ss9 ECHF

EC214, EC219, EC226, EC233



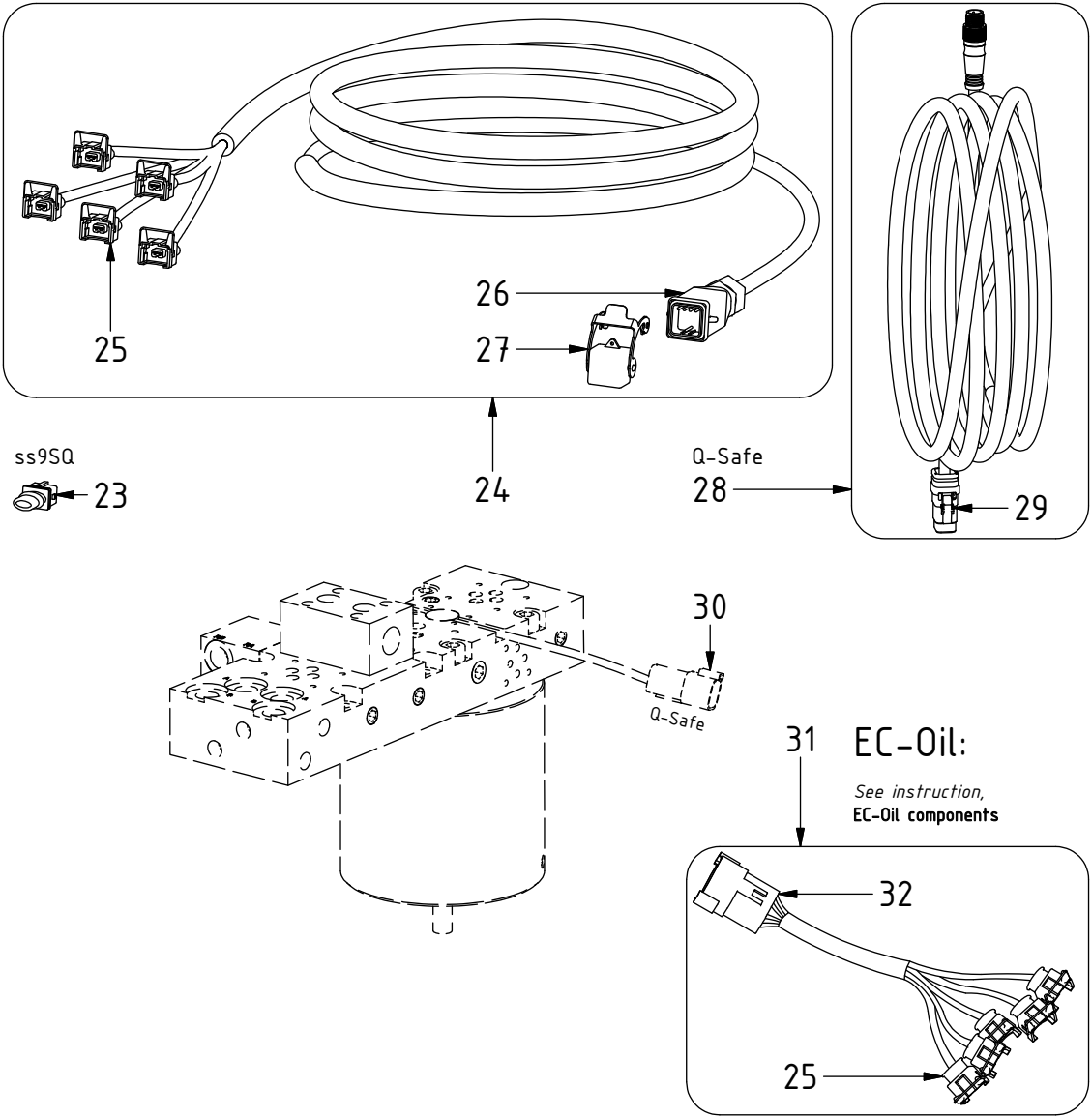
POS	DESCRIPTION	PART	QTY	COMMENTS
1	Std Valves & cables is applied alongside control system assembly			See "Control system" (hoses) (EC214, EC219, EC226, EC233) ECHF
2	Connection block P reducer +Dump	1027707	1	(Dump & POS.3 included)
3	Dual relief valve 1CLLR100	730287	1	
4	O-ring 15,54x2,62	712423	2	
5	For option XP, SX, ST, SG			See p.8 for instruction
6	Directional valve NG4 IQS 24V DT	1042188	1	QS, CW, ECPUP, ss SIQ, EC233 (POS.5 included)
7	Directional valve NG4 IQS 12V DT	1042045	1	QS, CW, ECPUP, ss SIQ (POS.5 included)
8	MC6S M5x50 12.9	610407	3	Torque: 9,7Nm
9	Adapter cabel-Hirschmann-Amp	302971	1	
10	Adapter cable DT-JT	1017478	1	QS, CW, ECPUP, ss SIQ, EC233
11	O-ring 7,65x1,78	710960	4	
12	Directional valve NG4 24V JT	730310	1	(POS.11 included)
13	Directional valve NG4 12V JT	730312	1	(POS.11 included)
14	MC6S M5x35 12.9	610404	4	Torque: 16Nm
15	O-ring 9,25x1,78	710901	8	
16	Directional valve closed 24V	730110	2	(POS.15 included)
17	Directional valve closed 12V	730112	2	(POS.15 included)
18	O-ring(square) NBR 70	750704	5	
19	Directional valve closed NG10 24V	730341	1	(POS.18 included)
20	Directional valve closed NG10 12V	730342	1	(POS.18 included)
21	MC6S M5x30 12.9	610403	8	Torque: 9,7Nm
22	MC6S M6x38 12.9	6000133	4	Torque: 17Nm
40	Valve spacer ePS	1034402	5	Replaces POS.21
41	Bracket ePS	1038119	1	For Topcon/LEICA/Novatron
42	Bracket ePS (Trimble only)	1038117	1	For Trimble
43	MC6S M5x16 12.9	610401	5	Torque: 9,7Nm
44	Rubber steel clamp ø16	6000009	1	
45	Plastic plug (red) for valves	790156	8	

Std Valves & cables - ss9 ECHF

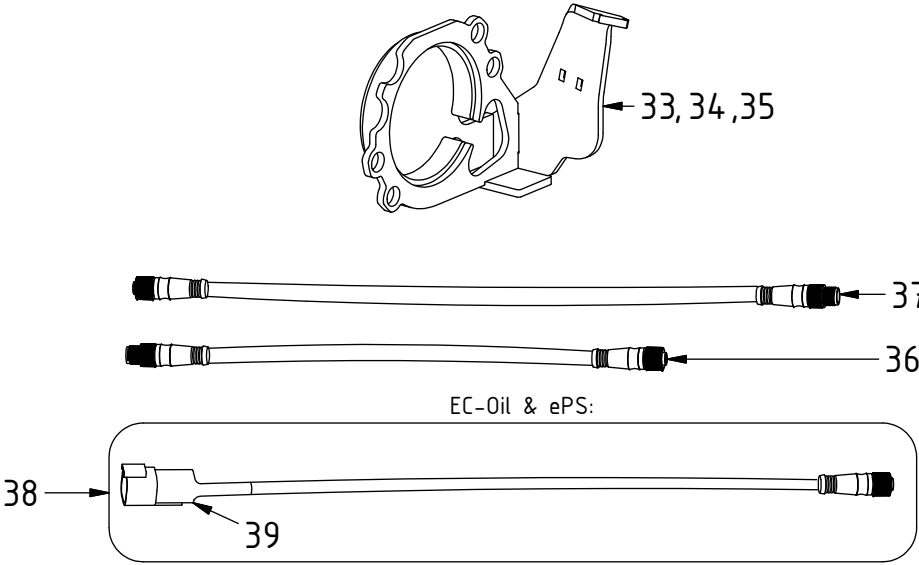
EC214, EC219, EC226, EC233

POS	DESCRIPTION	PART	QTY	COMMENTS
23	Jumper JT Lock valve	1018662	1	Plug JT connector "1" for ss9SQ
24	Aggregate cable ss9-2 Dump Comp.	1032909	1	
25	Connector JT	810218	5	
26	ILME contact Male 12P Complete	841192	1	
27	ILME cover 12P contact with jumper	810208	1	
28	Cable QS QLM tiltrotator ss9-2	842148	1	For Q-Safe
29	Connector Deutsch DTM06-6S	8000053	1	
30	Only for Q-safe, connector			Attach POS.28 or See EC-Oil comp.
31	Adapter cable ECO (DTM) ss9-2	1029599	1	For EC-Oil. Replace POS.24 & 28
32	Connector Deutsch DTM04-12P	8000177	1	
33	Protection ePS/MACS EC214-EC219	1033565	1	
34	Protection ePS/MACS EC233	1040940	1	
35	Protection ePS EC226 V2	1055677	1	
36	Adapter cable ePS rotation sensor	8000784	1	
37	Agg. cable ePS w. 120 ohm termin.	8000824	1	
38	Ad.cable ePS ECOW w. 120 ohm ter.	8000825	1	For EC-Oil ePS. Replace POS.37
39	Connector Deutsch DTM04-6P	8000054	1	

POS in order of assembly



ePS:



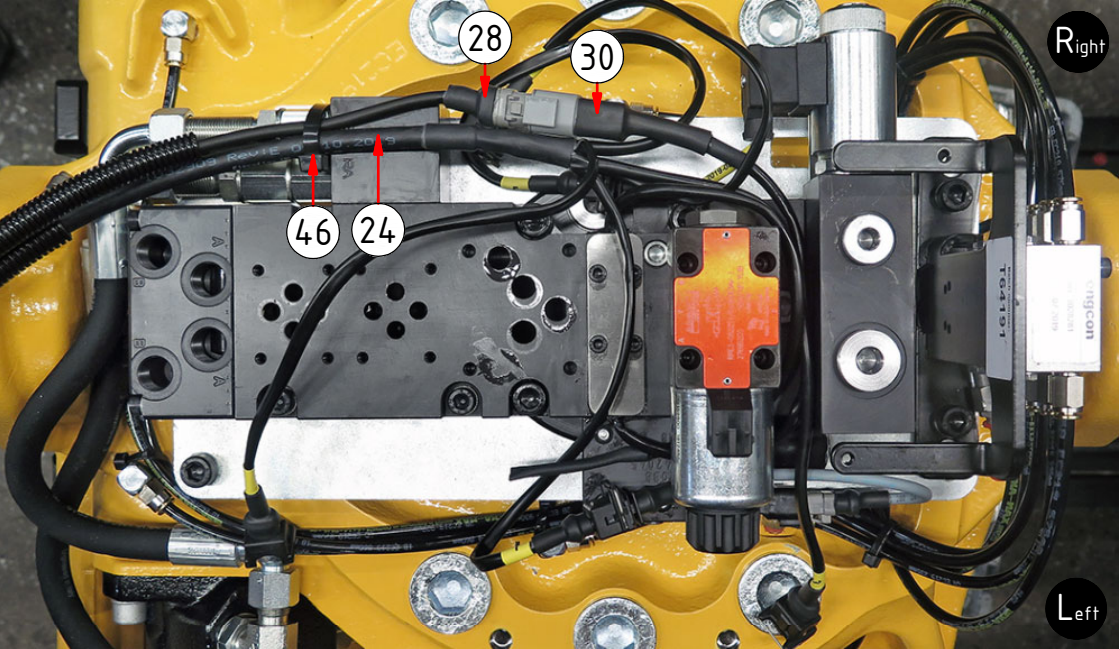
Std Valves & cables - ss9 ECHF

ss9
Std

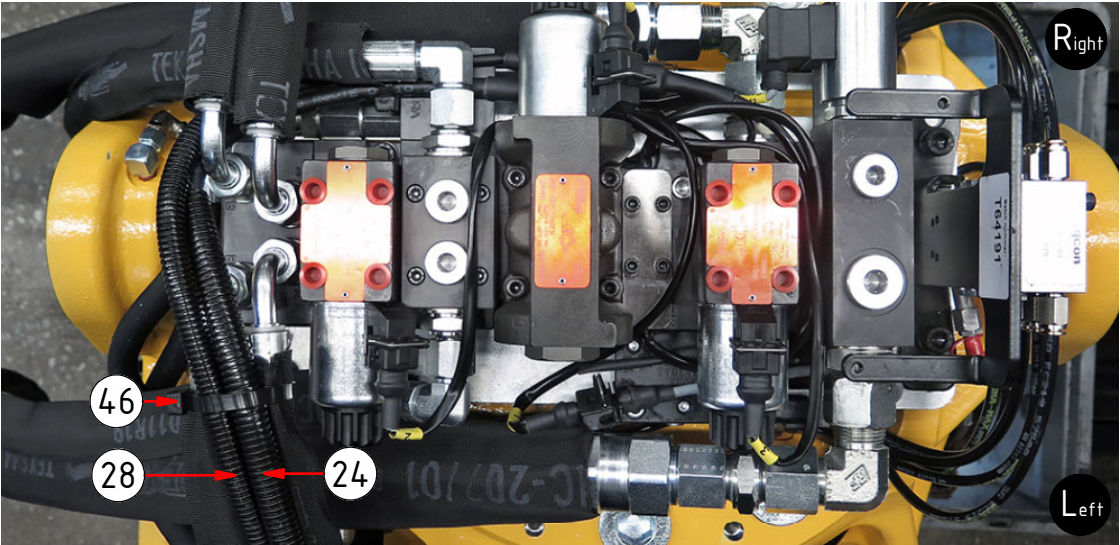
EC214, EC219, EC226, EC233

POS	DESCRIPTION	PART	QTY	COMMENTS
24	Aggregate cable ss9-2 Dump Comp.	1032909	1	
28	Cable QS QLM tiltrotator ss9-2	842148	1	For Q-Safe
30	Only for Q-safe, connector			Attach POS.28 or See EC-Oil comp.
46	Cable tie 7,8x360	1021587	1	

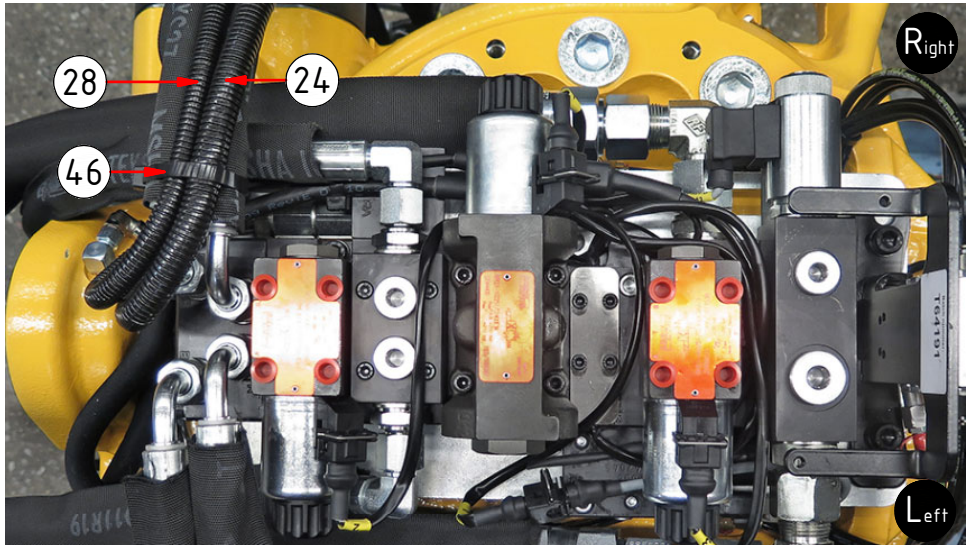
Cables/connectors:



Cables left (std)



Cables right (option)



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

POS in order of assembly

Std Valves & cables - ss9 ECHF

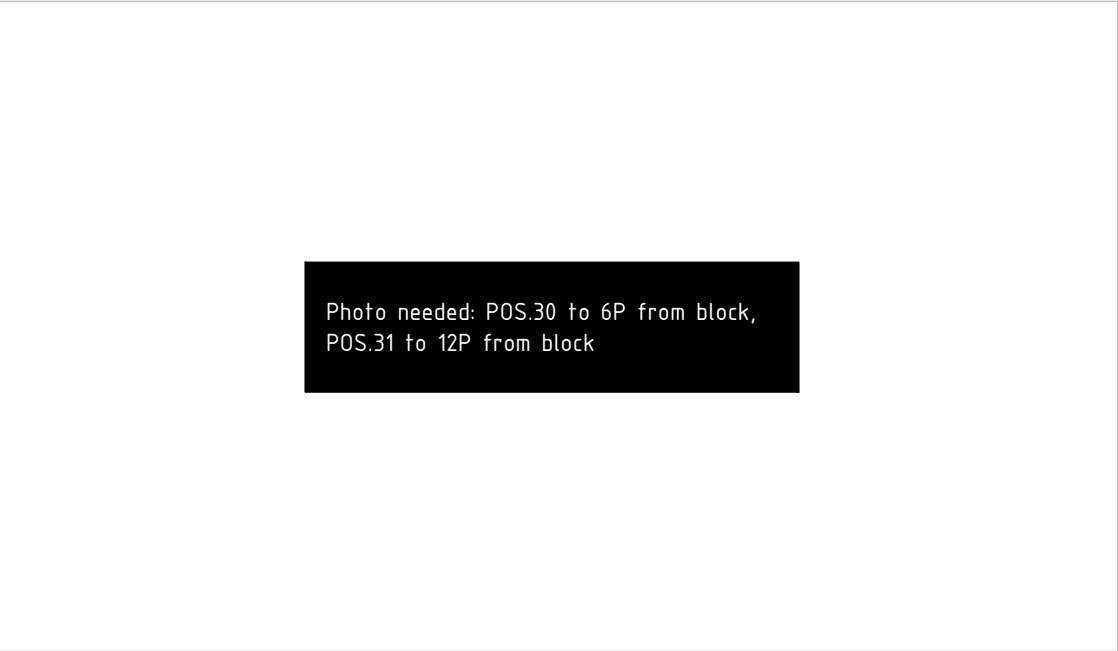
See instruction,
EC-Oil components

ss9IQ
Top EC-Oil

EC214, EC219, EC226, EC233

POS	DESCRIPTION	PART	QTY	COMMENTS
30	Only for Q-safe, connector			Attach POS.28 or See EC-Oil comp.
31	Adapter cable ECO (DTM) ss9-2	1029599	1	For EC-Oil. Replace POS.24 & 28
36	Adapter cable ePS rotation sensor	8000784	1	
38	Ad.cable ePS ECOW w. 120 ohm ter.	8000825	1	For EC-Oil ePS. Replace POS.37
46	Cable tie 7,8x360	1021587	1	
47	Cable tie 4,8x360	1021586	1	

Cables/connectors:

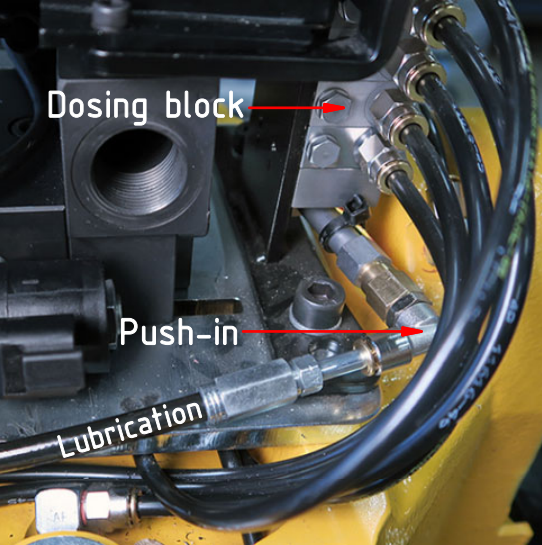


Top EC-Oil & ePS:

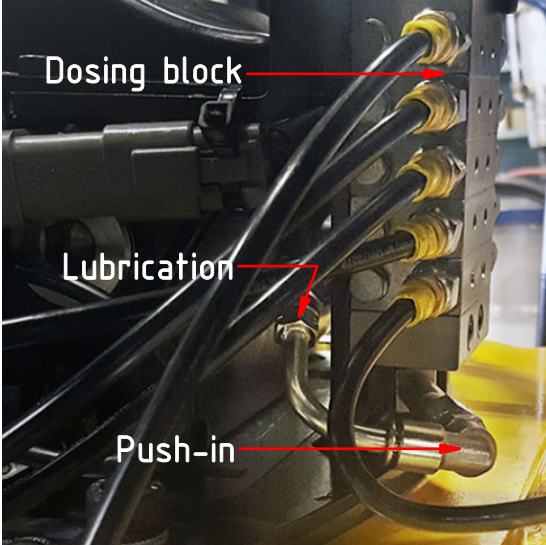
Cables/connectors:



Lubrication EC214-EC226:



Lubrication EC233:



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POS in order of assembly

Std Valves & cables - ss9 ECHF

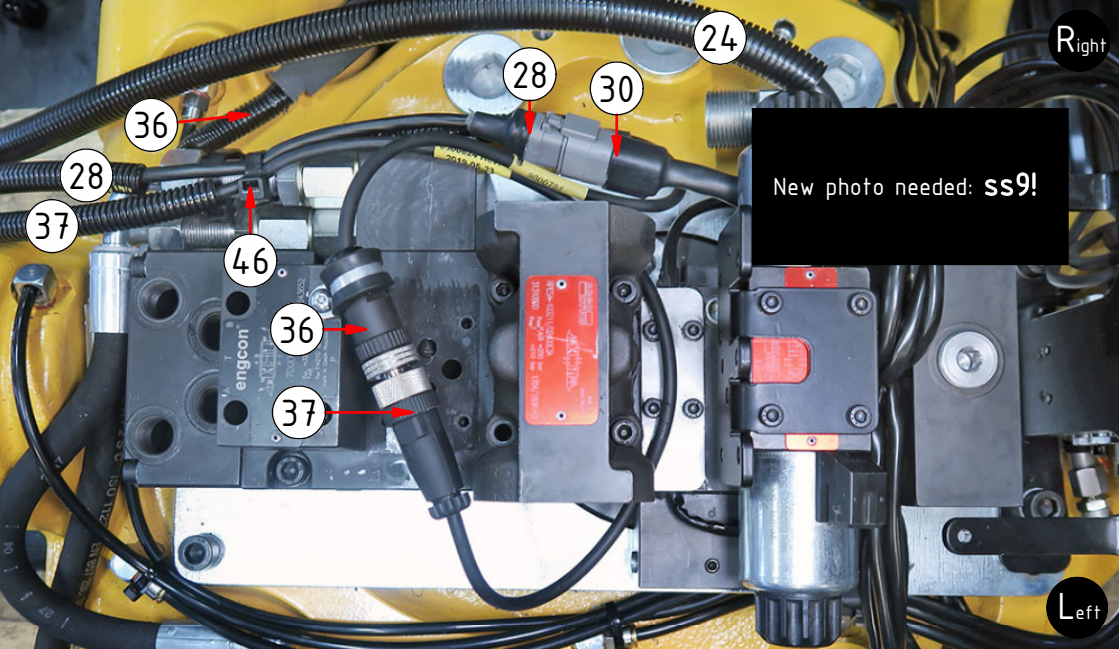
EC214, EC219, EC226, EC233

ss9
ePS

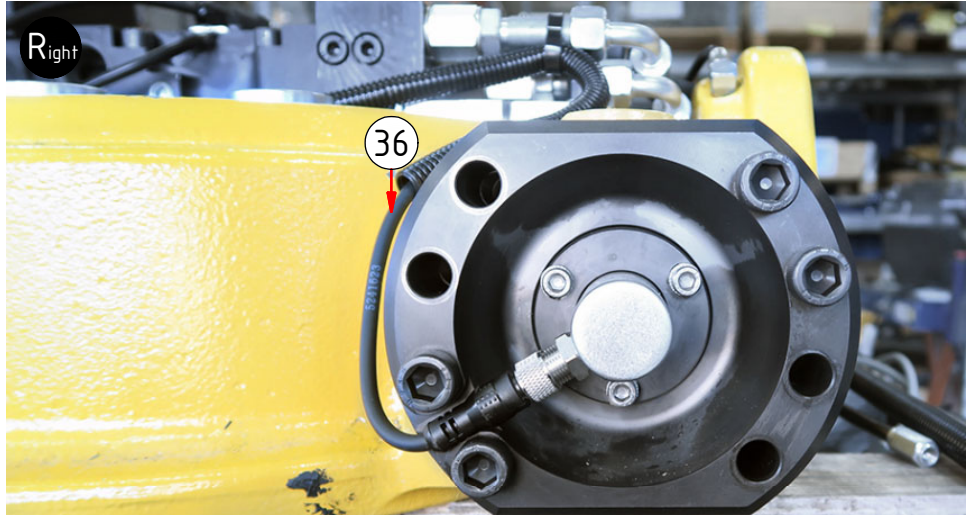
POS	DESCRIPTION	PART	QTY	COMMENTS
24	Aggregate cable ss9-2 Dump Comp.	1032909	1	
28	Cable QS QLM tiltrotator ss9-2	842148	1	For Q-Safe
30	Only for Q-safe, connector			Attach POS.28 or See EC-Oil comp.
36	Adapter cable ePS rotation sensor	8000784	1	
37	Agg. cable ePS w. 120 ohm termin.	8000824	1	
46	Cable tie 7,8x360	1021587	1	
47	Cable tie 4,8x360	1021586	1	

POS in order of assembly

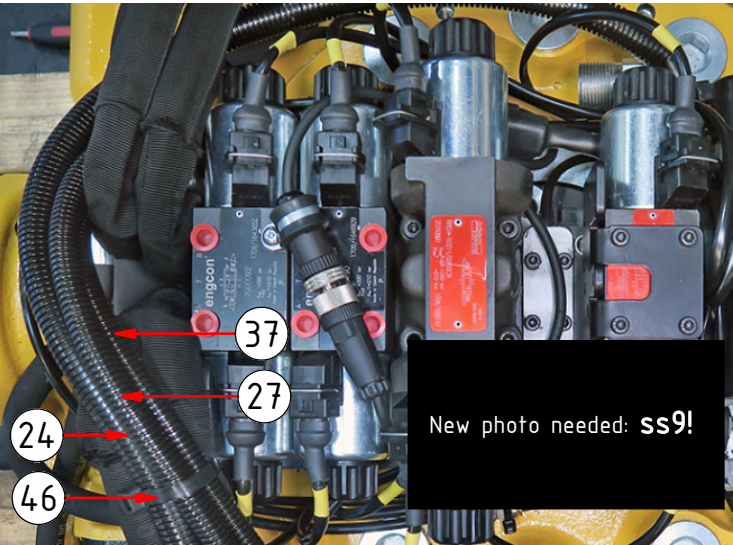
Cables/connectors:



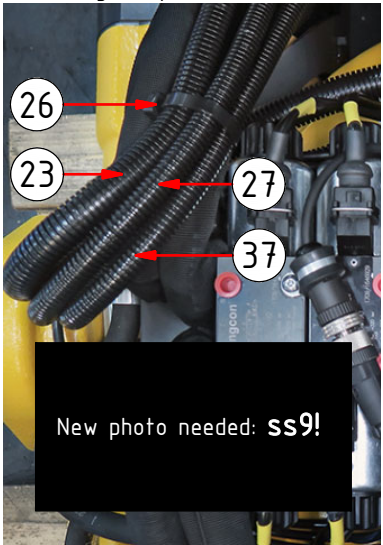
Sensor connection:



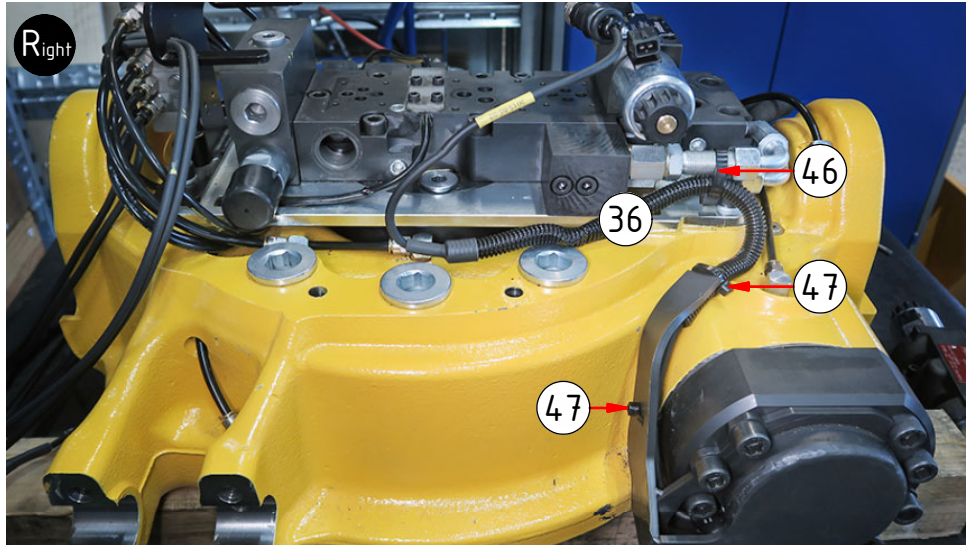
Cables left (std)



Cables right (option)



Sensor cable:



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

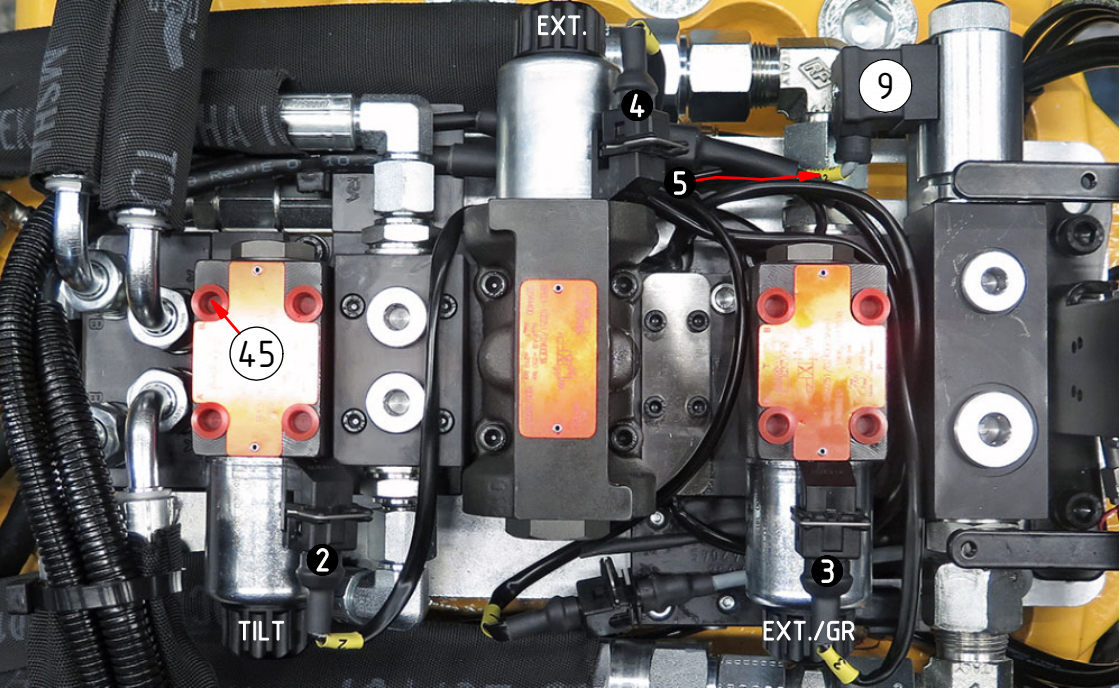
Std Valves & cables - ss9 ECHF

ss9
Valve connections

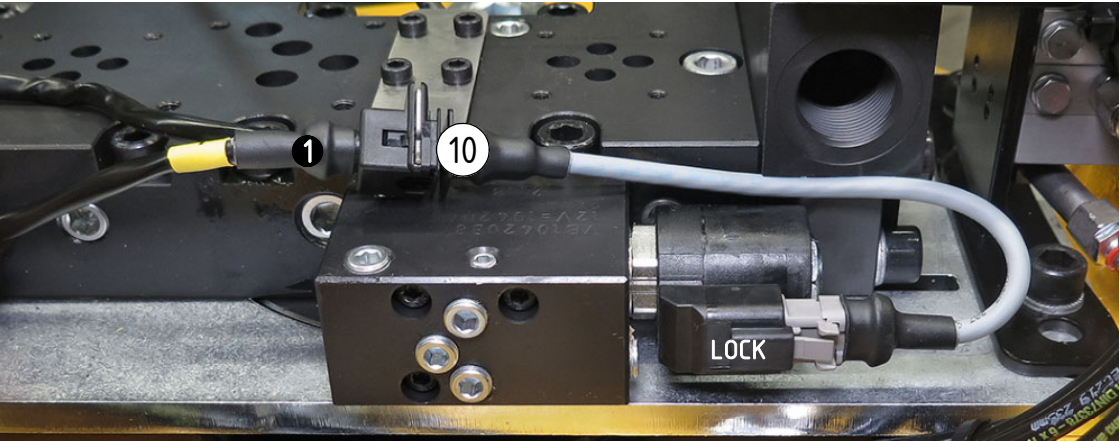
EC214, EC219, EC226, EC233

POS	DESCRIPTION	PART	QTY	COMMENTS
9	Adapter cabel-Hirschmann-Amp	302971	1	
10	Adapter cable DT-JT	1017478	1	QS, CW, ECPUP, ss SIQ, EC233
23	Jumper JT Lock valve	1018662	1	Plug JT connector "1" for ss9SQ
45	Plastic plug (red) for valves	790156	8	

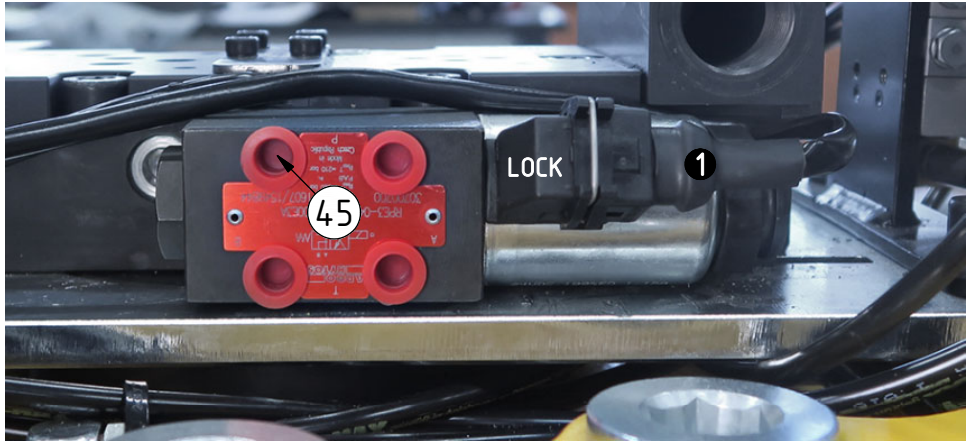
JT marked with numbers:



ss9IQ
Lock valve IQS DT:



ss9IQ
Lock valve JT:



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POS in order of assembly

Std Valves & cables - ss9 ECHF

special / options

Instructions needed:
XP, SX, ST, SG

POS	DESCRIPTION	PART	QTY	COMMENTS
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POS in order of assembly

Related spare parts

POS	DESCRIPTION	PART	QTY	COMMENTS
35	Protection ePS EC226 V2	1055677	1	
48	Protection ePS/MACS EC226	1016554	1	Replaced by POS.35 from 2020-07
49	Washer NL 10mm	611041	3	
50	MC6S M10x40 12.9	610453	3	

POS in order of assembly

