KOBELCO

SHOP MANUAL

HYDRAULIC EXCAVATOR

SK80CS-1E

S5LF0006E-01 NA

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22.15 CONTROL LINES

No.	PARTS	Q'ty	PEMARKS
(1)	YT06H00015F2		Pump control
1	INLINE FILTER	1	YN50V00007F1
2	CONNECTOR	1	PF3/8
3	ELBOW	3	PF3/8
4	PLUG	1	PF1/4
5	ELBOW	1	PF3/8
6	TEE	1	PF3/8
7	TEE	1	2-PF3/8-PF1/4
8	CAPSCREW	2	M10 X 20
9	WASHER	2	M10
10	HOSE ; L=550 PF3/8	1	Delivery relief
11	HOSE ; L=400 PF3/8	1	Pilot delivery
12	CONNECTOR	1	PF1-ϕ25.4
13	HOSE	1	Suction
14	CLIP	2	
15	ELBOW	1	PF3/4-ϕ25.4
16	HOSE GUARD	2	L=250
17	CONNECTOR	1	PF1/4
18	ELBOW	1	PF1/4
19	TUBE	1	L=540
20	HOSE ; L=650 PF1/4	1	Drain
(2)	LF64H00010F3		SOL. valve control lines
2	CAPSCREW	2	M10 X 70
3	WASHER	2	M10
4	ELBOW	1	PF3/8
5	ELBOW	8	PF1/4
6	CONNECTOR	1	PF3/8 with filter
8	ELBOW	2	PF3/8
9	HOSE ; L=450 PF3/8	1	Sol. 4 ; lever lock primary press.
10	HOSE ; L=3400 PF1/4	1	Sol C ; Travel priority command
11	HOSE ; L=850 PF1/4	1	Sol. 3 ; Travel 2speed changeover
12	HOSE ; L=1550 PF1/4	1	Sol. 1 ; Panking brake primary press.
13	HOSE ; L=2600 PF1/4	1	Sol. D ; P1 bypass cut & arm conflux
14	HOSE ; L=3150 PF1/4	2	Sol. B ; P2 bypass cut command Sol. 2 ; Slewing flow conflux changeover
15	HOSE ; L=3200 PF3/8	1	Drain
16	HOSE ; L=2700 PF3/8	1	A3 Pilot pump delivery
18	TUBE	1	L=500
19	GROMMET	2	
20	CLIP	8	
21	RUBBER	1	L=290
22	RUBBER	2	L=100
23	RUBBER	1	L=220
24	CLIP	3	
25	RUBBER	1	L=270
26	TUBE	1	L=750
27	TUBE	1	L=400
29	GROMMET	1	
31	HOSE ; L=3700 PF1/4	1	SOL. A ; Travel boost-up press.
32	ELBOW	1	PF1/4-PF3/8
33	TUBE	1	L=500
35	SOLENOID VALVE	1	YT35V00016F1

No.	PARTS	Q'ty	PEMARKS
(3)	LF64H00011F1		P/T block control lines
1	BLOCK	1	
2	CONECTOR	1	PF3/8
3	CONECTOR	2	PF1/4
4	CONECTOR	1	PF3/8 L=23
5	ELBOW	3	PF3/8
6	ELBOW	3	PF1/4
7	ELBOW	1	PF3/8
10	ELBOW	1	PF3/8-PF1/4
11	CAPSCREW	2	M8 X 40
12	WASHER	2	M8
13	TEE	1	PF3/8
15	CONNECTOR	1	PF1/4 L=23
(4-1)	LF68H00013F2		Alt remote control lines
2	CONNECTOR	8	PF1/4
3	CONNECTOR	2	PF1/4 with filter
4	CONNECTOR	2	PF3/8-PF1/4
5	HOSE ; L=1450 PF1/4	1	P/V P ; Primary pressure
6	HOSE ; L=2050 PF1/4	1	P/V P ; Primary pressure
7	HOSE ; L=1400 PF3/8	1	P/V T ; Drain
8	HOSE ; L=1900 PF3/8	1	P/V T ; Drain
9	HOSE ; L=2600 PF3/8	1	P/V T ; Drain
10	HOSE ; L=3450 RED	1	P/V 6 ; Slewing right
11	HOSE ; L=3450 BLUE	1	P/V 7 ; Arm in
12	HOSE ; L=3800 GREEN	1	P/V 8 ; Arm out
13	HOSE ; L=2700 GRAY	1	P/V 5 ; Slewing left
14	HOSE ; L=3200 RED	1	P/V 1 ; Bucket digging
15	HOSE ; L=2800 BLUE	1	P/V 2 ; Bucket dump
16	HOSE ; L=3200 GREEN	1	P/V 3 ; Boom up
17	HOSE ; L=2800 GLAY	1	P/V 4 ; Boom down
18	HOSE	2	
19	BOOT	2	
20	GROMMET	1	
21	WASHER	1	M10
22	CLIP	1	
23	CLIP	2	
24	CAPCREW	8	M8 X 25
25	CAPCREW	1	M10 X 20
26	WASHER	8	M8
27	BUSHING	1	
28	PILOT VALVE	2	PX30V00043F2
(4-2)	LF68H00014F3		ATT. remote control
2	CONNECTOR	8	PF1/4
3	CONNECTOR	2	PF1/4 with filter
4	CONNECTOR	2	PF3/8-PF1/4
5	HOSE ; PF1/4 L=1450	1	Pilot primary
6	HOSE ; PF1/4 L=2050	1	Pilot primary
7	HOSE ; PF3/8 L=1400	1	Drain
8	HOSE ; PF3/8 L=1900	1	Drain
9	HOSE ; PF3/8 L=2600	1	Drain
10	HOSE ; PF1/4 L=3450	1	RED PV6 ; Slewing right
11	HOSE ; PF1/4 L=3450	1	BLUE PV7 ; Arm in
12	HOSE ; PF1/4 L=3450	1	GREEN PV8 ; Arm out

No.	PARTS	Q'ty	PEMARKS
13	HOSE ; PF1/4 L=3450	1	GRAY PV5 ; Slewing left
14	HOSE ; PF1/4 L=2800	1	RED PV1 ; Bucket digging
15	HOSE ; PF1/4 L=2800	1	BLUE PV2 ; Bucket dump
16	HOSE ; PF1/4 L=2800	1	GREEN PV3 ; Boom up
17	HOSE ; PF1/4 L=2800	1	GRAY PV4 ; Boom down
18	HOSE	2	
19	BOOT	2	
20	TUBE	2	L=400
21	GROMMET	1	
22	WASHE5R	1	M10
23	CLIP	1	
24	CLIP	8	
25	CAPSCREW	8	M8 X 25
26	CAPSCREW	1	M10 X 20
27	WASHER	8	M8
28	BUSHING	1	
30	PILOT VALVE	2	PX30V00034F2
(5)	LF64H00006F2		Tower block control lines
1	BLOCK	1	
2	BRACKET	1	
3	ELBOW	8	PF1/4
5	HOSE ; PF1/4 L=500	1	B4 ; Boom down
6	HOSE ; PF1/4 L=900	1	B7 ; Arm in
7	HOSE ; PF1/4 L=1000	1	B2 ; Bucket dump
8	HOSE ; PF1/4 L=1600	1	B6 ; Slewing RH
9	CAPSCREW	2	M8 X 25
10	CAPSCREW	2	M10 X 25
11	WASHER	2	M8
12	WASHER	2	M10
13	PLUG	1	PF1/4
14	PRESSURE SENSOR	3	LC52S00011P1
(6)	LF64H00005F2		Multi control lines
1	CONTROL VALVE	1	YY30V00019F2
2	BRACKET	1	
3	SUPPORT	1	
4	ELBOW	15	PF3/8-PF1/4
5	TEE	3	PF1/4
6	ELBOW	3	PF1/4
8	ELBOW	1	PF3/8-PF1/4
9	HOSE ; PF1/4 L=300	1	⑧: Arm out
10	HOSE ; PF1/4 L=400	2	①: Bucket digging,③: Boom up
11	HOSE ; PF1/4 L=600	1	④: Boom down
12	HOSE ; PF1/4 L=900	1	⑦: Arm in
13	HOSE ; PF1/4 L=1000	1	②: Bucket dump
14	HOSE ; PF1/4 L=1500	2	S/V P1 & P2 line
15	CAPSCREW	4	M8 X 20
16	CAPSCREW	4	M10 X 20
17	CAPSCREW	3	M10 X 30
18	WASHER	4	M8
19	WASHER	7	M10
20	PRESSURE SENSOR	3	LC52S00011P1

No.	PARTS	Q'ty	PEMARKS
(7)	LF06H00005F5		STD Main control valve lines
1	ELBOW	15	PF1/4
2	TEE	5	PF1/4
3	CONNECTOR	15	PF1/4
4	CONNECTOR	5	PF1/4 L=38
5	PRESSURE SENSOR	4	LC52S00011P1
6	CONNECTOR	1	PF1/4-PF3/8 L=84
7	HOSE ; L=1000 PF1/4	1	DR1 ; Drain
8	HOSE ; L=1200 PF1/4	1	DR3 ; Drain
9	HOSE ; L=750 PF1/4	2	DR7 ; Drain
10	HOSE ; L=1850 PF1/4	1	DR8 ; Drain
11	HOSE ; L=750 PF1/4	2	PC5' ; Arm in check open command PS ; Slewing priority command for check close
12	HOSE ; L=1050 PF1/4	1	PC4 ; Boom conflux command
13	HOSE ; L=900 PF1/4	2	Pb2' ; Boom down check open command Pd7' ; Slewing priority command at slewing left
14	CONNECTOR	1	PF1/4 L=23
15	CONNECTOR	2	PF1/4 L=60
16	CONNECTOR	1	PF1/4 L=75
17	CLIP	5	
18	ELBOW	3	PF1/4
19	ELBOW	5	PF1/4
20	CONNECTOR	3	PF1/4-PF3/8
21	ELBOW	4	PF1/4-PF3/8
22	TEE	3	PF3/8
23	CONNECTOR	1	PF1/4 with throttling
24	CONNECTOR	1	With filter & throttling
25	CHECK VALVE	1	YT21V00002P1
26	HOSE ; L=800 PF1/4	1	Pb5' ; Boom RH swing check open command
27	HOSE ; L=1100 PF1/4	1	
29	HOSE ; L=900 PF1/4	2	DR4 ; Drain, DR3 ; Drain
30	GROMMET	2	
32	ELBOW	1	PF3/8
33	ELBOW	1	PF1/4
34	TEE	1	PF1/4
35	TEE	1	PF1/4
36	ELBOW	1	PF1/4
37	TEE	5	PF1/4
38	TEE	1	PF3/8
(8)	LF62H00002F1		Travel P/V remote control lines
1	HOSE ; L=400 PF1/4	1	P/V P ; Primary pressure
2	HOSE ; L=450 PF3/8	1	P/V T ; Drain
3	HOSE ; L=2350 PF1/4	1	P/V 3 ; Travel LH reverse
4	HOSE ; L=3100 PF1/4	1	P/V 4 ; Travel RH forward
5	ELBOW	4	PF1/4
7	CONNECTOR	1	PF1/4 with filter
8	CONNECTOR	1	PF3/8-PF1/4
9	PRESSURE SENSOR	2	LC52S00011P1
10	CAPSCREW	4	M8 X 25
11	WASHER	4	M8
12	PILOT VALVE	1	YN30V00070F1
13	HOSE ; L=2250 PF1/4	1	P/V 3 ; Travel RH reverse
14	HOSE ; L=3300 PF1/4	1	P/V 2 ; Travel LH forward

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