KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK100 V
SK100L V
SK120 V
SK120LC V

Applicable: SK100 V YW07901~
SK100L V LX10201~
SK120 V LP13601~
SK120LC V YP02501~

S5LP0008E-01 02/96

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List of Shop Manual GENERAL Section

Index No.	Title	Book Code No. / Distribution Year-Month		
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—	OPERATION	S2LP1017E Refer to Operators manual		
LP03	LOCATION AND WEIGHT OF COMPONENTS	S5LP0307E① 1996-02		
LP04	MAINTENANCE STANDARDS AND TEST PROCEDURES	S5LP0409E① 1996-02		
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LP07	WORKING STANDARDS	S5LP0706E 1995-12		
LP08	STANDARD MAN-HOUR TABLE	S5LP0803E 1995-12		
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SHOP MANUAL

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LP01

SPECIFICATION

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電線 WIRE NO	電色 WIRE COLOR	電線・サイズ WIRE SIZE	FROM	接続 CONNECTION	TO	機能 FUNCTION
1A	WG	AVSS0.75sq	CN-319F	DOUBLE SPLICE	CN-2F	FUSE BOX — MECHA-TRO CONTROLLER
1B	WG	AVSS0.75sq	CN-319F		CN-2F	FUSE BOX — MECHA-TRO CONTROLLER
4	RG	AVSS0.75sq	CN-318M		CN-317M	FUSE BOX — CIGARETTE LIGHTER
5A	YR	AVSS0.75sq	CN-316M		CN-318M	TUNER — FUSE BOX
6A	L	AVSS0.75sq	CN-327F		CN-318M	10PAF-J/B — FUSE BOX
6B	L	AVSS0.75sq	CN-328F		CN-338F	10PAF-J/B — RELAY ASSY
6C	L	AVSS0.75sq	CN-329F		CN-338F	10PAF-J/B — RELAY ASSY
7A	GY	AVSS0.75sq	CN-327F		CN-318M	10PAF-J/B — FUSE BOX
7B	GY	AVSS0.75sq	CN-328F		CN-316M	10PAF-J/B — TUNER
7C	GY	AVSS0.75sq	CN-329F		CN-333F	10PAF-J/B — A/C AMP
8	RL	AVSS0.75sq	CN-318M		CN-5F	FUSE BOX — CLUSTER&SWITCH ASSY
9A	RB	AVSS1.25sq	CN-334F		CN-318M	15PAF-J/B — FUSE BOX
9B	RB	AVSS1.25sq	CN-335F		CN-9F	15PAF-J/B — POWER WINDOW CONTROLLER
9C	RB	AVSS1.25sq	CN-336F		CN-9F	15PAF-J/B — POWER WINDOW CONTROLLER
9D	RB	AVSS1.25sq	CN-337F		CN-331F	15PAF-J/B — ROOM LAMP
10A	WR	AVSS1.25sq	CN-327F		CN-318M	10PAF-J/B — FUSE BOX
10B	WR	AVSS1.25sq	CN-328F		CN-317M	10PAF-J/B — KEY SW.
10C	WR	AVSS1.25sq	CN-329F		CN-302F	10PAF-J/B — RELAY(KEY SW)
11A	G	AVSS0.75sq	CN-334F		CN-318M	15PAF-J/B — FUSE BOX
11B	G	AVSS0.75sq	CN-335F		CN-347F	15PAF-J/B — MECHA-TRO CONTROLLER
11C	G	AVSS0.75sq	CN-336F		CN-307M	15PAF-J/B — TRAVEL TWO-SPEED SW.
11E	G	AVSS0.75sq	CN-337F		CN-301F	15PAF-J/B — CHECK CONNECTOR
12	RY	AVSS0.75sq	CN-318M		CN-338F	FUSE BOX — RELAY ASSY
13	Y	AVSS0.75sq	CN-318M		CN-5F	FUSE BOX — CLUSTER&SWITCH ASSY
14	BR	AVSS0.75sq	CN-318M		CN-10F	FUSE BOX — WIPER CONTROLLER
15A	LW	AVSS0.75sq	CN-334F		CN-318M	15PAF-J/B — FUSE BOX
15B	LW	AVSS0.75sq	CN-335F		CN-345F	15PAF-J/B — RESISTER
15C	LW	AVSS0.75sq	CN-336F		CN-344F	15PAF-J/B — RESISTER
15D	LW	AVSS0.75sq	CN-337F		CN-316M	15PAF-J/B — LEVER LOCK
16A	WV	AVSS0.75sq	CN-327F		CN-318M	10PAF-J/B — FUSE BOX
16B	WV	AVSS0.75sq	CN-328F		CN-338F	10PAF-J/B — RELAY ASSY
16C	WV	AVSS0.75sq	CN-329F		CN-338F	10PAF-J/B — RELAY ASSY
17A	WL	AVSS0.75sq	CN-327F		CN-318M	10PAF-J/B — FUSE BOX
17B	WL	AVSS0.75sq	CN-328F		CN-338F	10PAF-J/B — RELAY ASSY
17C	WL	AVSS0.75sq	CN-329F		CN-338F	10PAF-J/B — RELAY ASSY
18A	L	AVSS1.25sq	CN-334F		CN-318M	15PAF-J/B — FUSE BOX
18B	L	AVSS1.25sq	CN-335F		CN-333F	15PAF-J/B — A/C AMP
18C	L	AVSS1.25sq	CN-336F		CN-343F	15PAF-J/B — HEATER
18D	L	AVSS1.25sq	CN-337F		CN-9F	15PAF-J/B — POWER WINDOW CONTROLLER
19	GW	AVSS1.25sq	CN-334F		CN-318M	15PAF-J/B — FUSE BOX
19A	GW	AVSS1.25sq	CN-335F		CN-305F	15PAF-J/B — RESERVE
19B	GW	AVSS1.25sq	CN-336F		CN-303F	15PAF-J/B — RESERVE
19C	GW	AVSS1.25sq	CN-337F		CN-304F	15PAF-J/B — RESERVE
20	R	AVSS0.75sq	CN-318M		CN-310M	FUSE BOX — GOVERNOR MOTOR
21A	G	AVSS0.75sq	CN-315M	DOUBLE SPLICE	CN-319F	BATTERY RELAY — FUSE BOX
21B	R	AVSS0.75sq	CN-315M		CN-319F	BATTERY RELAY — FUSE BOX
22	R	AVSS5sq	CN-319F		CN-313M	FUSE BOX — BATTERY RELAY
23	Y	AVSS5sq	CN-319F		CN-313M	FUSE BOX — BATTERY RELAY
26	W	AVSS1.25sq	CN-318F		CN-317M	FUSE BOX — KEY SW.
27A	WL	AVSS0.75sq	CN-326F		CN-317M	A/C-GRAY — KEY SW.
27B	WL	AVSS0.75sq	CN-326F		CN-2F	A/C-GRAY — MECHA-TRO CONTROLLER
27C	WL	AVSS0.75sq	CN-326F		CN-333F	A/C-GRAY — A/C AMP
27D	WL	AVSS0.75sq	CN-326F		CN-324F	A/C-GRAY — DIODE
27E	WL	AVSS0.75sq	CN-326F		CN-324F	A/C-GRAY — DIODE
27F	WL	AVSS0.75sq	CN-326F		CN-325F	A/C-GRAY — DIODE

電線 WIRE NO	電色 WIRE COLOR	電線・サイズ WIRE SIZE	FROM	接続 CONNECTION	TO	機能 FUNCTION
28A	BR	AVSS0.75sq	CN-334F		CN-317M	15PAF-J/B — KEY SW.
28B	BR	AVSS0.75sq	CN-335F		CN-325F	15PAF-J/B — DIODE
28C	BR	AVSS0.75sq	CN-336F		CN-325F	15PAF-J/B — DIODE
29A	P	AVSS0.75sq	CN-327F		CN-317M	10PAF-J/B — KEY SW.
29B	P	AVSS0.75sq	CN-328F		CN-325F	10PAF-J/B — DIODE
29C	P	AVSS0.75sq	CN-329F		CN-310M	10PAF-J/B — HEATER RELAY
30	LG	AVSS0.75sq	CN-317M		CN-310M	KEY SW. — SAFETY RELAY
31A	W	AVSS0.75sq	CN-327F		CN-324F	10PAF-J/B — DIODE
31B	W	AVSS1.25sq	CN-328F		CN-302F	10PAF-J/B — RELAY(KEY SW)
31C	W	AVSS0.75sq	CN-329F		CN-314M	10PAF-J/B — BATTERY RELAY
32A	WG	AVSS0.75sq	CN-334F		CN-4F	15PAF-J/B — MECHA-TRO CONTROLLER
32B	WG	AVSS0.75sq	CN-335F		CN-324F	15PAF-J/B — DIODE
32C	WG	AVSS1.25sq	CN-336F		CN-302F	15PAF-J/B — RELAY(KEY SW)
320	WG	AVSS0.75sq	CN-337F		CN-349F	15PAF-J/B — DIODE
35B	BY	AVSS0.75sq	CN-326F		CN-310M	A/C-GRAY — SAFETY RELAY
35C	BY	AVSS0.75sq	CN-326F		CN-310M	A/C-GRAY — ALTERNATOR
350	BY	AVSS0.75sq	CN-326F		CN-349F	A/C-GRAY — DIODE
35E	BY	AVSS0.75sq	CN-316M		CN-326F	METER — A/C-GRAY
41	RW	AVSS0.75sq	CN-1F		CN-317M	MECHA-TRO CONTROLLER — ACCEL POTENTIO
42	GO	AVSS0.75sq	CN-1F		CN-317M	MECHA-TRO CONTROLLER — ACCEL POTENTIO
43	BW	AVSS0.75sq	CN-1F		CN-317M	MECHA-TRO CONTROLLER — ACCEL POTENTIO
44	RW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — BUCKET DIGGING
45	WR	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — BUCKET DIGGING
46	BW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — BUCKET DIGGING
47	RW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BUCKET DUMP
48	WV	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BUCKET DUMP
49	BW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BUCKET DUMP
50	RW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LIFTING
51	W	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LIFTING
52	BW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LIFTING
53	RW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LOWERING
54	WB	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LOWERING
55	BW	AVSS0.75sq	CN-1F		CN-309M	MECHA-TRO CONTROLLER — BOOM LOWERING
56	RW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PULLING
57	L	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PULLING
58	BW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PULLING
59	RW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PUSHING
60	LY	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PUSHING
61	BW	AVSS0.75sq	CN-1F		CN-311M	MECHA-TRO CONTROLLER — ARM PUSHING
62	RW	AVSS0.75sq	CN-1F		CN-312M	MECHA-TRO CONTROLLER — SWING
63	YR	AVSS0.75sq	CN-1F		CN-312M	MECHA-TRO CONTROLLER — SWING
64	BW	AVSS0.75sq	CN-1F		CN-312M	MECHA-TRO CONTROLLER — SWING
65	RW	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL RIGHT
66	LR	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL RIGHT
67	BW	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL RIGHT
68	RW	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL LEFT
69	LB	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL LEFT
70	BW	AVSS0.75sq	CN-1F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL LEFT
71	RW	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P1
72	YG	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P1
73	BW	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P1
74	RW	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P2
75	YV	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P2
76	BW	AVSS0.75sq	CN-3F		CN-312M	MECHA-TRO CONTROLLER — PUMP P2
77	RW	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — HLB

電線 WIRE NO	電色 WIRE COLOR	電線・サイズ WIRE SIZE	FROM	接続 CONNECTION	TO	機能 FUNCTION
78	VR	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — HLB
79	BW	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — HLB
80	RW	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — KICKDLER
81	VY	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — KICKDLER
82	BW	AVSS0.75sq	CN-3F		CN-311M	MECHA-TRO CONTROLLER — KICKDLER
83	LO	AVSS0.75sq	CN-2F		CN-6F	MECHA-TRO CONTROLLER — CLUSTER&SWITCH ASSY
84	LG	AVSS0.75sq	CN-2F		CN-6F	MECHA-TRO CONTROLLER — CLUSTER&SWITCH ASSY
85	P	AVSS0.75sq	CN-2F		CN-6F	MECHA-TRO CONTROLLER — CLUSTER&SWITCH ASSY
87	BP	AVSS0.75sq	CN-2F		CN-6F	MECHA-TRO CONTROLLER — CLUSTER&SWITCH ASSY
93A	W	MVSS0.75sq	CN-346F		CN-2F	A/C-ORANGE — MECHA-TRO CONTROLLER
93B	W	MVSS0.75sq	CN-346F		CN-5F	A/C-ORANGE — CLUSTER&SWITCH ASSY
93C	W	MVSS0.75sq	CN-346F		CN-301F	A/C-ORANGE — CHECK CONNECTOR
94A	GB	AVSS0.75sq	CN-334F		CN-2F	15PAF-J/B — MECHA-TRO CONTROLLER
94B	GB	AVSS0.75sq	CN-335F		CN-6F	15PAF-J/B — CLUSTER&SWITCH ASSY
94C	GB	AVSS0.75sq	CN-336F		CN-310M	15PAF-J/B — E/G OIL PRESS
95	G	AVSS0.75sq	CN-3F		CN-348M	MECHA-TRO CONTROLLER — MECHA-TRO CONTROLLER
96	O	AVSS0.75sq	CN-2F		CN-307M	MECHA-TRO CONTROLLER — TRAVEL TWO-SPEED SW.
98	V	AVSS0.75sq	CN-3F		CN-310M	MECHA-TRO CONTROLLER — GOVERNOR MOTOR
99	R	MVVS0.75sq	CN-1F		CN-314M	MECHA-TRO CONTROLLER — REVOLUTION SENSOR
100	W	MVVS0.75sq	CN-1F		CN-314M	MECHA-TRO CONTROLLER — REVOLUTION SENSOR
101	Gr	AVSS0.75sq	CN-201M		CN-3F	FLEX CONTROL SY. — MECHA-TRO CONTROLLER
111	PG	AVSS0.75sq	CN-2F		CN-6F	MECHA-TRO CONTROLLER — CLUSTER&SWITCH ASSY
112A	R	MVVS0.75sq	CN-346F		CN-2F	A/C-ORANGE — MECHA-TRO CONTROLLER
112B	R	MVVS0.75sq	CN-346F		CN-5F	A/C-ORANGE — CLUSTER&SWITCH ASSY
112C	R	MVVS0.75sq	CN-346F		CN-301F	A/C-ORANGE — CHECK CONNECTOR
114	BY	AVSS0.75sq	CN-4F		CN-336F	MECHA-TRO CONTROLLER — FLASHER UNIT
115	G	MVVS0.75sq	CN-4F		CN-312M	MECHA-TRO CONTROLLER — SOLENOID MOTOR
116	B	MVVS0.75sq	CN-4F		CN-312M	MECHA-TRO CONTROLLER — SOLENOID MOTOR
117	R	MVVS0.75sq	CN-4F		CN-312M	MECHA-TRO CONTROLLER — SOLENOID MOTOR
118	W	MVVS0.75sq	CN-4F		CN-312M	MECHA-TRO CONTROLLER — SOLENOID MOTOR
119	GR	AVSS0.75sq	CN-4F		CN-202F	MECHA-TRO CONTROLLER — RELEASE SW (SWING PARKING)
123A	OL	AVSS0.75sq	CN-334F		CN-4F	15PAF-J/B — MECHA-TRO CONTROLLER
123B	OL	AVSS0.75sq	CN-335F		CN-308M	15PAF-J/B — TWO-SPEED SW
123C	OL	AVSS0.75sq	CN-336F		CN-5F	15PAF-J/B — CLUSTER&SWITCH ASSY
124	VW	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — P2 BYPASS CUT
125	LW	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — P2 BYPASS CUT
126	YG	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — STRAIGHT TRAVEL
127	GrG	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — STRAIGHT TRAVEL
128	GrB	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — P1 BYPASS CUT
129	YB	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — P1 BYPASS CUT
130	GW	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — ARM VALVABLE RECIRCULATION
131	BrW	AVSS0.75sq	CN-4F		CN-308M	MECHA-TRO CONTROLLER — ARM VALVABLE RECIRCULATION
134	GY	AVSS0.75sq	CN-4F		CN-203F	MECHA-TRO CONTROLLER — RELEASE SW (OPEN)
135	Y	AVSS0.75sq	CN-4F		CN-203F	MECHA-TRO CONTROLLER — RELEASE SW (OPEN)
136	YL	AVSS0.75sq	CN-4F		CN-203F	MECHA-TRO CONTROLLER — RELEASE SW (OPEN)
137	BL	AVSS0.75sq	CN-4F		CN-203F	MECHA-TRO CONTROLLER — RELEASE SW (OPEN)

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