KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK80MSR LF01

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SHOP MANUAL SK80MSR LF01

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WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
1	RY	AVSS1.25sq	CN-15F		CN-13F	FUSE BOX → MECHATRO CONTROLLER
2A	WY	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
2B	WY	AVSS0.75sq	CN-26F		CN-29F	WIPER MOTOR → 15PAF-J/B
2C	WY	AVSS0.75sq	CN-25F		CN-29F	WINDOW WASHER MOTOR ← 15PAF-J/B
2D	WY	AVSS0.75sq	CN-22F		CN-29F	TRAVEL ALARM RELAY → 15PAF-J/B
3	RL	AVSS0.75sq	CN-14M		CN-40M	FUSE BOX → CIGARETTE LIGHTER
4	OL	AVSS0.75sq	CN-14M		CN-40M	FUSE BOX → CONVERTER
5A	WG	AVSS0.75sq	CN-14M		CN-36F	FUSE BOX → J/C-ORANGE
5B	WG	AVSS0.75sq	CN-23F		CN-36F	HORN RELAY → J/C-ORANGE
5C	WG	AVSS0.75sq	CN-23F		CN-36F	HORN RELAY → J/C-ORANGE
8	WV	AVSS1.25sq	CN-14M		CN-10F	FUSE BOX → FUEL PUMP
9A	YB	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
9B	YB	AVSS0.75sq	CN-40M		CN-29F	CONVERTER → 15PAF-J/B
9C	YB	AVSS0.75sq	CN-42F		CN-29F	ROOM LAMP → 15PAF-J/B
9D	YB	AVSS0.75sq	CN-10F		CN-29F	ENGINE ROOM LIGHT → 15PAF-J/B
10	WV	AVSS1.25sq	CN-15F		CN-4M	FUSE BOX → KEY SW.
11A	O	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
11B	O	AVSS0.75sq	CN-22F		CN-29F	TRAVEL ALARM RELAY → 15PAF-J/B
11C	O	AVSS0.75sq	CN-10F		CN-29F	FUEL PUMP → 15PAF-J/B
12	RG	AVSS0.75sq	CN-14M		CN-47F	FUSE BOX → SWING FLASHER RELAY
13A	W	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
13B	W	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE ← 15PAF-J/B
13C	W	AVSS0.75sq	CN-4M		CN-29F	HYD. TEMP. LAMP → 15PAF-J/B
14A	RB	AVSS1.25sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
14B	RB	AVSS1.25sq	CN-26F		CN-29F	WIPER MOTOR → 15PAF-J/B
14C	RB	AVSS0.75sq	CN-25F		CN-29F	WINDOW WASHER MOTOR → 15PAF-J/B
14E	RB	AVSS0.75sq	CN-36F		CN-29F	J/C-ORANGE → 15PAF-J/B
14F	RB	AVSS0.75sq	CN-36F		CN-21F	J/C-ORANGE → WIPER MOTOR
14H	RB	AVSS0.75sq	CN-36F		CN-40M	J/C-ORANGE → ROOF WIPER SW.
14J	RB	AVSS0.75sq	CN-36F		CN-41F	J/C-ORANGE → ROOF WIPER MOTOR
15A	WB	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
15B	WB	AVSS0.75sq	CN-40M		CN-29F	SWING EXTRA INDICATION LAMP → 15PAF-J/B
15C	WB	AVSS0.75sq	CN-3M		CN-29F	DOUBLE SINGLE SELECT SW. → 15PAF-J/B
15D	WB	AVSS0.75sq	CN-10F		CN-29F	SWING EXTRA SELECT SOL. → 15PAF-J/B
15E	WB	AVSS0.75sq	CN-18F	DOUBLE SPLICE	CN-29F	SEQUENCE RELAY → 15PAF-J/B
15F	WB	AVSS0.75sq	CN-15F		CN-15F	SEQUENCE RELAY → SEQUENCE RELAY
16A	RW	AVSS1.25sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
16B	RW	AVSS1.25sq	CN-24F		CN-29F	WORK LIGHT RELAY → 15PAF-J/B
16C	RW	AVSS0.75sq	CN-24F		CN-29F	WORK LIGHT RELAY → 15PAF-J/B
17A	WL	AVSS1.25sq	CN-29F		CN-14M	15PAF-J/B ← FUSE BOX
17B	WL	AVSS1.25sq	CN-29F		CN-44F	15PAF-J/B → OPT. WORK LIGHT RELAY 1
17C	WL	AVSS1.25sq	CN-29F		CN-45F	15PAF-J/B → OPT. WORK LIGHT RELAY 2
17D	WL	AVSS0.75sq	CN-29F	DOUBLE SPLICE	CN-44F	15PAF-J/B → OPT. WORK LIGHT RELAY 1
17E	WL	AVSS0.75sq	CN-29F		CN-45F	15PAF-J/B → OPT. WORK LIGHT RELAY 2
17F	WL	AVSS0.75sq	CN-4M		CN-44F	ROTARY LIGHT SW. → OPT. WORK LIGHT RELAY 1
18	WG	AVSS1.25sq	CN-15F		CN-3M	FUSE BOX → AIR CONDITIONER AMP.
19	RL	AVSS0.75sq	CN-14M		CN-3M	FUSE BOX → TO A/C
20	WR	AVSS1.25sq	CN-14M		CN-31F	FUSE BOX → RESERVE SOURCE
50	L	AVSS1.25sq	CN-15F		CN-4M	FUSE BOX → KEY SW.
51	W	MVSS1.25sq	CN-10F		CN-15F	FUSE BOX → BATTERY RELAY
E	B	2 CORES SHIELD	CN-10F		CN-13F	EARTH → MECHATRO CONTROLLER
SH2	Gr		CN-10F		CN-13F RIDE OPEN	
52	R	AV85sq	CN-15F		CN-11M	FUSE BOX → BATTERY RELAY
53	Y	AV85sq	CN-15F		CN-11M	FUSE BOX → BATTERY RELAY
60A	GrL	AVSS0.75sq	CN-1F		CN-29F	MECHATRO CONTROLLER → 15PAF-J/B
60B	GrL	AVSS0.75sq	CN-4M		CN-29F	KEY SW. → 15PAF-J/B
60C	GrL	AVSS0.75sq	CN-33F		CN-29F	BATTERY RELAY → 15PAF-J/B
60D	GrL	AVSS0.75sq	CN-32F		CN-29F	DIODE → 15PAF-J/B
61A	BrY	AVSS0.75sq	CN-1F		CN-29F	MECHATRO CONTROLLER → 15PAF-J/B
61B	BrY	AVSS0.75sq	CN-4M		CN-29F	KEY SW → 15PAF-J/B
61C	BrY	AVSS0.75sq	CN-33F		CN-29F	DIODE → 15PAF-J/B
61D	BrY	AVSS0.75sq	CN-32F		CN-29F	DIODE → 15PAF-J/B
62A	GrB	AVSS0.75sq	CN-33F		CN-29F	DIODE → 15PAF-J/B
62B	GrB	AVSS0.75sq	CN-4M		CN-29F	DIODE → 15PAF-J/B
62C	GrB	AVSS0.75sq	CN-10F		CN-29F	DIODE → 15PAF-J/B
63	WY	AVSS0.75sq	CN-10F		CN-4M	SAFETY RELAY → KEY SW.
64	GW	AVSS0.75sq	CN-28F		CN-10F	RESISTOR → ALTERNATOR
70A	G	AVSS0.75sq	CN-33F		CN-36F	DIODE → J/C-ORANGE
70B	G	AVSS0.75sq	CN-28F		CN-36F	RESISTOR → J/C-ORANGE
70C	G	AVSS0.75sq	CN-10F		CN-36F	BATTERY RELAY → J/C-ORANGE
80	LY	AVSS0.75sq	CN-21F		CN-26F	WIPER MOTOR RELAY → WIPER MOTOR
81	BrB	AVSS0.75sq	CN-21F		CN-26F	WIPER MOTOR RELAY → WIPER MOTOR
82	GO	AVSS0.75sq	CN-10F		CN-25F	WASHER MOTOR ← WASHER MOTOR RELAY
83	WL	AVSS0.75sq	CN-10F		CN-23F	HORN ← HORN RELAY
84	WB	AVSS0.75sq	CN-23F		CN-4M	HORN RELAY ← HORN SW.
85A	WB	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
85B	WB	AVSS1.25sq	CN-24F		CN-29F	WORK LIGHT RELAY → 15PAF-J/B
85C	WB	AVSS1.25sq	CN-10F		CN-29F	ROOM WORKING LIGHT → 15PAF-J/B
85D	WB	AVSS0.75sq	CN-4M		CN-29F	SW ASSY ← 15PAF-J/B
85E	WB	AVSS0.75sq	CN-3M		CN-29F	AIR CONDITIONER AMP → 15PAF-J/B
86	OW	AVSS0.75sq	CN-81F		CN-251M	TIMER ← OPERATING LEVER LOCK SOL.
87A	WL	AVSS0.75sq	CN-81F	DOUBLE SPLICE	CN-3M	TIMER ← LEVER LOCK SW.
87B	WL	AVSS0.75sq	CN-81F		CN-13F	TIMER ← MECHATRO CONTROLLER
92	BP	AVSS0.75sq	CN-3M		CN-10F	AIR CONDITIONER AMP → A/C RECEIVER DRIER
94	G	AVSS0.75sq	CN-251M		CN-32F	DOUBLE SINGLE SELECT SOL. → DIODE
95	WG	AVSS0.75sq	CN-40M		CN-3M	CONVERTER → SOCKET
97	YV	AVSS0.75sq	CN-40M		CN-3M	CONVERTER → SOCKET
98	LB	AVSS0.75sq	CN-40M		CN-41F	ROOF WIPER SW. → ROOF WIPER MOTOR
99	LW	AVSS0.75sq	CN-40M		CN-41F	ROOF WIPER SW. → ROOF WIPER MOTOR
100	LY	AVSS0.75sq	CN-3M		CN-251M	DOUBLE-SINGLE SELECT SW. → DOUBLE SINGLE SELECT SOL.
101	LW	AVSS0.75sq	CN-3M		CN-92F	TUNER → SPAKER LEFT
102	Br	AVSS0.75sq	CN-3M		CN-92F	TUNER → SPAKER LEFT
103	LR	AVSS0.75sq	CN-3M		CN-93F	TUNER → SPAKER RIGHT
104	DB	AVSS0.75sq	CN-3M		CN-93F	TUNER → SPAKER RIGHT
170	L	AVSS1.25sq	CN-44F		F-4	OPT. WORK LIGHT RELAY 1 → CAB WORKING LIGHT
180	DL	AVSS0.75sq	CN-26F		CN-43M	WIPER MOTOR RELAY → WIPER MOTOR INTERLOCK SW.
181	R	AVSS0.75sq	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
182	G	AVSS0.75sq	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
183	W	AVSS0.75sq	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
184	B	AVSS0.75sq	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
185A	LY	AVSS0.75sq	CN-44F	DOUBLE SPLICE	CN-45F	OPT. WORK LIGHT RELAY 1 → OPT. WORK LIGHT RELAY 2
185B	LY	AVSS0.75sq	CN-44M		CN-45F	OPT. WORK LIGHT SW. → OPT. WORK LIGHT RELAY 2
SH4	Gr	AVSS0.75sq	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
188	PG	AVSS0.75sq	CN-10F		CN-22F	TRAVEL ALARM → TRAVEL ALARM RELAY
189	YR	AVSS0.75sq	CN-4M		F-8	ROTARY LIGHT SW. → ROTARY LIGHT
191A	LR	AVSS0.75sq	F-3	DOUBLE SPLICE	CN-45F	CAB WORKING LIGHT → OPT. WORK LIGHT RELAY 2
191B	LR	AVSS0.75sq	F-5		CN-45F	CAB WORKING LIGHT → OPT. WORK LIGHT RELAY 2
209	LY	AVSS0.75sq	CN-10F		CN-47F	SWING FLASHER RIGHT → SWING FLASHER RELAY
210	La	AVSS0.75sq	CN-10F		CN-47F	SWING FLASHER LEFT → SWING FLASHER RELAY
211A	RW	AVSS0.75sq	CN-10F	DOUBLE SPLICE	CN-18F	SEQUENCE RELAY → SEQUENCE RELAY
211B	RW	AVSS0.75sq	CN-40M		CN-18F	SWING EXTRA RIGHT INDICATION LAMP → SEQUENCE RELAY
212	LG	AVSS0.75sq	CN-18F		CN-3M	SEQUENCE RELAY → SWING EXTRA SELECT SW.
500	LgR	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BUCKET DIGGING → MECHATRO CONTROLLER
501	LgW	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR BUCKET DUMP → MECHATRO CONTROLLER
502	LgY	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BOOM RAISING → MECHATRO CONTROLLER
503	LO	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BOOM LOWERING → MECHATRO CONTROLLER
504	PG	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR ARM IN → MECHATRO CONTROLLER
505	PL	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR ARM OUT → MECHATRO CONTROLLER
506	V	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR SWING RIGHT → MECHATRO CONTROLLER
507	VG	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR SWING LEFT → MECHATRO CONTROLLER
508	VY	AVSS0.75sq	CN-251M		CN-12F	PRESS. SENSOR TRAVEL RIGHT → MECHATRO CONTROLLER
509	Sb	AVSS0.75sq	CN-251M		CN-13F	PRESS. SENSOR TRAVEL LEFT → MECHATRO CONTROLLER
530	P	AVSS0.75sq	CN-4M		CN-13F	ACCEL POTENTIO → MECHATRO CONTROLLER
534	B	WVVS0.5sq 2 CORES SHIELD	CN-10F		CN-13F	ENG. RPM SENSOR → MECHATRO CONTROLLER
535	W		CN-10F		CN-13F	ENG. RPM SENSOR → MECHATRO CONTROLLER
SH3	Gr		CN-10F		CN-13F	ENG. RPM SENSOR → MECHATRO CONTROLLER
536	BrR	AVSS0.75sq	CN-10F		CN-40M	FUEL SENSOR → CLUSTER GAUGE
537	YR	AVSS0.75sq	CN-10F		CN-40M	COOLANT TEMP SENSOR → CLUSTER GAUGE
550A	O	AVSS0.75sq	CN-1F		CN-29F	MECHATRO CONTROLLER → 15PAF-J/B
550B	O	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
550C	O	AVSS0.75sq	CN-10F		CN-29F	ENG. OIL PRESS → 15PAF-J/B
551	BrL	AVSS0.75sq	CN-10F		CN-40M	AIR FILTER SW. → CLUSTER GAUGE
552	GB	AVSS0.75sq	CN-10F		CN-40M	E/G WATER TEMP → CLUSTER GAUGE
553	BrB	AVSS0.75sq	CN-10F		CN-40M	FUEL SENSOR → CLUSTER GAUGE
555	OW	AVSS0.75sq	CN-4M		CN-10F	OVERLOAD INDICATE SW. → OVER LOAD SW.
556A	LO	AVSS0.75sq	CN-32F		CN-36F	DIODE → J/C-ORANGE
556B	LO	AVSS0.75sq	CN-38M		CN-36F	MAINTENANCE CONNECTOR → J/C-ORANGE
556C	LO	AVSS0.75sq	CN-2F		CN-36F	MECHATRO CONTROLLER → J/C-ORANGE
557	GrB	AVSS0.75sq	CN-4M		CN-40M	OVERLOAD INDICATE SW. → CLUSTER GAUGE
559	PL	AVSS0.75sq	CN-251M		CN-13F	TWO-SPEED SELECT SW. → MECHATRO CONTROLLER
560	V	AVSS0.75sq	CN-10F		CN-13F	STEPPING MOTOR → MECHATRO CONTROLLER
561	La	AVSS0.75sq	CN-40M		CN-27F	CLUSTER GAUGE → SWING PARKING RELEASE SW
562	WY	AVSS0.75sq	CN-1F		CN-4M	MECHATRO CONTROLLER → BUZZER STOP SW.
563	O	AVSS0.75sq	CN-4M		CN-251M	HYD. TEMP. LAMP → HYD. TEMP. SW.
564	Gr	AVSS0.75sq	CN-1F		CN-3M	MECHATRO CONTROLLER → SWING FLASHER SELECT SW.
603	LgR	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → MECHATRO CONTROLLER
604	LG	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → MECHATRO CONTROLLER
605	VG	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → MECHATRO CONTROLLER
606	BrW	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → MECHATRO CONTROLLER
607	GW	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → MECHATRO CONTROLLER
651A	WR	AVSS0.75sq	CN-10F		CN-36F	SAFETY RELAY → J/C-ORANGE
651B	WR	AVSS0.75sq	CN-40M		CN-36F	CLUSTER GAUGE → J/C-ORANGE
651C	WR	AVSS0.75sq	CN-40M		CN-36F	HOUR METER → J/C-ORANGE
700	V	AVSS0.75sq	CN-27F		CN-1F	SWING PARKING RELEASE SW. → MECHATRO CONTROLLER
701	PB	AVSS0.75sq	CN-251M		CN-27F	SWING PARKING BRAKE SOL. → SWING PARKING RELEASE SW.
702A	LeB	AVSS0.75sq	CN-251M		CN-29F	TWO-SPEED SELECT SOL. → 15PAF-J/B
702B	LeB	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
702C	LeB	AVSS0.75sq	CN-1F		CN-29F	MECHATRO CONTROLLER → 15PAF-J/B
717	BP	AVSS0.75sq	CN-1F		CN-22F	MECHATRO CONTROLLER → TRAVEL ALARM RELAY
751	BO	AVSS0.75sq	CN-251M		CN-1F	PI OUT PROPORTIONAL SOL. → MECHATRO CONTROLLER
752	GrR	AVSS0.75sq	CN-251M		CN-1F	PI OUT PROPORTIONAL SOL. → MECHATRO CONTROLLER
753	GB	AVSS0.75sq	CN-251M		CN-1F	TRAVEL STRAIGHT PROPORTIONAL SOL. → MECHATRO CONTROLLER
754	GrB	AVSS0.75sq	CN-251M		CN-1F	TRAVEL STRAIGHT PROPORTIONAL SOL. → MECHATRO CONTROLLER
755	BP	AVSS0.75sq	CN-251M		CN-1F	PI OUT PROPORTIONAL SOL. → MECHATRO CONTROLLER
756	PW	AVSS0.75sq	CN-251M		CN-1F	PI OUT PROPORTIONAL SOL. → MECHATRO CONTROLLER

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