KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK450(LC) VI

SK480(LC) VI

S5LS0006E 02

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SPECIFICATION

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WIRE NO.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
526	LeY	AVSS0.75sq	CN-3F		CN-35F	MECHATRO CONTROLLER → REVOLUTION CLINOMETER
541	PL	AVSS0.75sq	CN-2F		CN-31M	MECHATRO CONTROLLER → TRAVEL SPEED SW.
542A	GrG	AVSS0.75sq	CN-4F		CN-27F	MECHATRO CONTROLLER → 15PAF-J/B
542B	GrG	AVSS0.75sq	CN-32M		CN-27F	POWER BOOST SW → 15PAF-J/B
542C	GrG	AVSS0.75sq	CN-38M		CN-27F	POWER BOOST SW → 15PAF-J/B
545	Le	AVSS0.75sq	CN-2F		CN-10F	MECHATRO CONTROLLER → SWING PARKING RELEASE SW.
546A	PG	AVSS0.75sq	CN-2F		CN-28F	MECHATRO CONTROLLER → 15PAF-J/B
546B	PG	AVSS0.75sq	CN-11F		CN-28F	KPSS MODE RELEASE SW. → 15PAF-J/B
546C	PG	AVSS0.75sq	CN-11F		CN-28F	KPSS MODE RELEASE SW. → 15PAF-J/B
546D	PG	AVSS0.75sq	CN-13F		CN-28F	RESISTOR → 15PAF-J/B
547	GB	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← ENG. WATER TEMP. SW.
548	GY	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← ENG. OIL PRESS. SW.
549	Le	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← AIR FILTER RESTRICTION SW.
550	BG	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← ENG. COOLANT LEVEL SW.
551	GL	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← ENG. COOLANT LEVEL SW.
552	BrL	AVSS0.75sq	CN-4F		CN-30F	MECHATRO CONTROLLER ← HYD. FLUID LEVEL SW.
553A	VW	AVSS0.75sq	CN-27F		CN-30F	15PAF-J/B ← FUEL SENSOR
553B	VW	AVSS0.75sq	CN-27F		CN-4F	15PAF-J/B ← MECHATRO CONTROLLER
553C	VW	AVSS0.75sq	CN-27F		CN-20F	15PAF-J/B → RESISTOR
556	BrW	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
557	L	AVSS0.75sq	CN-4F		CN-38M	MECHATRO CONTROLLER → WIPER MOTOR
558	G	AVSS0.75sq	CN-4F		CN-38M	MECHATRO CONTROLLER → WIPER MOTOR
559A	PB	AVSS0.75sq	CN-7F		CN-27F	MECHATRO CONTROLLER → 15PAF-J/B
559B	PB	AVSS0.75sq	CN-38M		CN-27F	POWER WINDOW CONTROLLER → 15PAF-J/B
559C	PB	AVSS0.75sq	CN-60F		CN-27F	WIPER INTERLOCK SW → 15PAF-J/B
560	LeY	AVSS0.75sq	CN-7F		CN-45F	MECHATRO CONTROLLER ← SWING FLASHER SW
561	WY	AVSS0.75sq	CN-7F		CN-32M	MECHATRO CONTROLLER → TRAVEL ALARM SW.
562	O	AVS0.5sq	CN-52F		CN-32M	SW. BOX ASSY ← WARM-UP SW.
563	O	AVS0.5sq	CN-7F		CN-30F	MECHATRO CONTROLLER ← HYD. FLUID TEMP. SW.
564	LY	AVS0.5sq	CN-32M		CN-52F	CONFLUE/SINGLE SELECT SW. → SW. BOX ASSY
565	GR	AVS0.5sq	CN-34F		CN-52F	SW. TO JUMP TO LIMIT OF FRONT WORK → SW. BOX ASSY
566	LW	AVSS0.75sq	CN-6F		CN-30F	MECHATRO CONTROLLER → ENG. OIL FILTER SW.
567	LR	AVS0.5sq	CN-34F		CN-52F	OPT. → SW. BOX ASSY
568	LeR	AVS0.5sq	CN-34F		CN-52F	STROKE-END PROXIMILITY SW. → SW. BOX ASSY
569	LO	AVS0.5sq	CN-39F		CN-52F	OPT. → SW. BOX ASSY
570	YB	AVS0.5sq	CN-39F		CN-52F	OPT. → SW. BOX ASSY
571	YG	AVS0.5sq	CN-39F		CN-52F	OPT. → SW. BOX ASSY
572	GrG	AVS0.5sq	CN-31M		CN-52F	SW. ASSY (MODE, BUZZER STOP) → SW. BOX ASSY
573	V	AVS0.5sq	CN-31M		CN-52F	SW. ASSY (MODE, BUZZER STOP) → SW. BOX ASSY
574	PL	AVS0.5sq	CN-38M		CN-52F	SW. ASSY (WIPER, WASHER, LIGHT) → SW. BOX ASSY
575	LeB	AVS0.5sq	CN-38M		CN-52F	SW. ASSY (WIPER, WASHER, LIGHT) → SW. BOX ASSY
576	LB	AVS0.5sq	CN-38M		CN-52F	SW. ASSY (WIPER, WASHER, LIGHT) → SW. BOX ASSY
580	R	MVVS0.75sq 2 CORES SHIELD	CN-2F		CN-30F	MECHATRO CONTROLLER ← ENG. REVOLUTION SENSOR
581	W		CN-2F		CN-30F	MECHATRO CONTROLLER ← ENG. REVOLUTION SENSOR
SH1	Gr		CN-2F		CN-30F	SHIELD →
582	W	MVVS0.75sq 3 CORES SHIELD	CN-4F		CN-38M	MECHATRO CONTROLLER → CLUSTER GAUGE
770	R		CN-4F		CN-38M	MECHATRO CONTROLLER → CLUSTER GAUGE
980	B		CN-4F		CN-38M	MECHATRO CONTROLLER → CLUSTER GAUGE
SH2	Gr		CN-4F		CN-38M	SHIELD →
583	Br	AVSS0.75sq	CN-34F		CN-3F	AGAINST OVERTURNING → MECHATRO CONTROLLER
600	YR	AVSS0.75sq	CN-38M		CN-30F	CLUSTER GAUGE → COOLANT THERMO SENSOR
601	BrR	AVSS0.75sq	CN-38M		CN-30F	CLUSTER GAUGE → FUEL SENSOR
610A	GrL	AVSS0.75sq	CN-7F		CN-27F	MECHATRO CONTROLLER → 15PAF-J/B
610B	GrL	AVSS0.75sq	CN-41F		CN-27F	DIODE → 15PAF-J/B
610C	GrL	AVSS0.75sq	CN-41F		CN-27F	DIODE → 15PAF-J/B
611	LG	AVSS0.75sq	CN-34F		CN-4F	DIODE → MECHATRO CONTROLLER
700	WG	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER → BATTERY RELAY

WIRE NO.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
701	V	AVSS0.75sq	CN-6F		CN-10F	MECHATRO CONTROLLER ← SWING PARKING RELEASE SW.
702	LeB	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← TWO-SPEED SELECT SOL.
703	P	AVSS0.75sq	CN-6F		CN-30F	MECHATRO CONTROLLER ← POWER BOOST SOL.
704	LeR	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
705	LG	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
706	VW	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
707	LY	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
708	LR	AVSS0.75sq	CN-4F		CN-29F	MECHATRO CONTROLLER ← WIPER RELAY ASSY
709	GB	AVSS0.75sq	CN-4F		CN-29F	MECHATRO CONTROLLER ← WIPER RELAY ASSY
710	Gr	AVSS0.75sq	CN-4F		CN-29F	MECHATRO CONTROLLER ← WIPER RELAY ASSY
711	GrL	AVSS0.75sq	CN-4F		CN-29F	MECHATRO CONTROLLER ← WIPER RELAY ASSY
712	YB	AVSS0.75sq	CN-7F		CN-38M	MECHATRO CONTROLLER → POWER WINDOW CONTROLLER
713	BrY	AVSS0.75sq	CN-4F		CN-16F	MECHATRO CONTROLLER ← WORK LIGHT RELAY
714	WB	AVSS0.75sq	CN-4F		CN-56F	MECHATRO CONTROLLER → FLASHER RELAY
715	GW	AVSS0.75sq	CN-7F		CN-56F	MECHATRO CONTROLLER → FLASHER RELAY
716	WV	AVSS0.75sq	CN-7F		CN-56F	MECHATRO CONTROLLER → FLASHER RELAY
717	BP	AVSS0.75sq	CN-7F		CN-17F	MECHATRO CONTROLLER ← TRAVEL ALARM RELAY
718	DL	AVSS0.75sq	CN-7F		CN-34F	MECHATRO CONTROLLER ← AGAINST OVERTURNING
720	PB	AVSS0.75sq	CN-10F		CN-30F	SWING PARKING RELEASE SW. → SWING PARKING BRAKE SOL.
740	BO	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER → P2 BY-PASS CUT PROPORTIONAL SOL.
741	GrB	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← P2 BY-PASS CUT PROPORTIONAL SOL.
742	VR	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER → TRAVEL PRIORITY PROPORTIONAL SOL.
743	GrB	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← TRAVEL PRIORITY PROPORTIONAL SOL.
744	BP	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← P1 BY-PASS CUT PROPORTIONAL SOL.
745	PW	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← P1 BY-PASS CUT PROPORTIONAL SOL.
746	BrG	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER → ARM IN CONFLUENCE PROPORTIONAL SOL.
747	YV	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER ← ARM IN CONFLUENCE PROPORTIONAL SOL.
748	VR	AVSS0.75sq	CN-5F		CN-11F	MECHATRO CONTROLLER ← KPSS RELEASE SW.
749	GrG	AVSS0.75sq	CN-5F		CN-11F	KPSS RELEASE SW. → KPSS RELEASE SW.
750	VW	AVSS0.75sq	CN-6F		CN-11F	MECHATRO CONTROLLER ← KPSS RELEASE SW.
751	GY	AVSS0.75sq	CN-6F		CN-11F	MECHATRO CONTROLLER → KPSS RELEASE SW.
756	BrY	AVSS0.75sq	CN-11F		CN-30F	KPSS RELEASE SW. → PUMP P1 PROPORTIONAL SOL.
757	RY	AVSS0.75sq	CN-11F		CN-30F	KPSS RELEASE SW. → PUMP P1 PROPORTIONAL SOL.
758	BrB	AVSS0.75sq	CN-11F		CN-30F	KPSS RELEASE SW. → PUMP P2 PROPORTIONAL SOL.
759	RL	AVSS0.75sq	CN-11F		CN-30F	KPSS RELEASE SW. → PUMP P2 PROPORTIONAL SOL.
760	G	AVSS0.75sq	CN-7F		CN-39F	MECHATRO CONTROLLER → OPT.
761	GL	AVSS0.75sq	CN-7F		CN-39F	MECHATRO CONTROLLER → OPT.
780	LG	AVSS0.75sq	CN-35M		CN-6F	ENG. CONTROLLER → MECHATRO CONTROLLER
781	LR	AVSS0.75sq	CN-35M		CN-6F	ENG. CONTROLLER → MECHATRO CONTROLLER
900	RB	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BUCKET DIGGING)
901	RL	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BUCKET DUMP)
902	W	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BOOM RAISING)
903	OB	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BOOM LOWERING)
904	OL	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (ARM IN)
905	OW	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (ARM OUT)
906	YB	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (SWING RIGHT)
907	YG	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (SWING LEFT)
908	YL	AVSS0.75sq	CN-1F		CN-31N	MECHATRO CONTROLLER → PRESS. SENSOR (TRAVEL RIGHT)
909	YR	AVSS0.75sq	CN-1F		CN-31N	MECHATRO CONTROLLER → PRESS. SENSOR (TRAVEL LEFT)
910	WY	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (P1 MEGA-CON.)
911	RG	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (P2 MEGA-CON.)
912	RW	AVSS0.75sq	CN-3F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BACK PRESS.)
913	RB	AVSS0.75sq	CN-3F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (P1 OPT.)
914	RL	AVSS0.75sq	CN-3F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (P2 OPT.)
915	YL	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (PUMP P1)
916	YR	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (PUMP P2)
917	WR	AVSS0.75sq	CN-1F		CN-36M	MECHATRO CONTROLLER → ACCEL POTENTIO

WIRE NO.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
918	RG	AVSS0.75sq	CN-34F		CN-7F	BOOM POTENTIO. → MECHATRO CONTROLLER
930	RG	AVS0.5sq	CN-4F		CN-51F	MECHATRO CONTROLLER → SW. BOX ASSY
932	RL	AVSS0.75sq	CN-3F		CN-35F	MECHATRO CONTROLLER → REVOLUTION CLINOMETER
950	BrR	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BUCKET DIGGING)
951	BL	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BUCKET DUMP)
952	BR	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BOOM RAISING)
953	BrW	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BOOM LOWERING)
954	BrL	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (ARM IN)
955	Gr	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (ARM OUT)
956	GrL	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (SWING RIGHT)
957	Br	AVSS0.75sq	CN-1F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (SWING LEFT)
958	BY	AVSS0.75sq	CN-1F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (TRAVEL RIGHT)
959	BG	AVSS0.75sq	CN-1F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (TRAVEL LEFT)
960	BY	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (P1 MEGA-CON.)
961	BW	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (P2 MEGA-CON.)
962	GrG	AVSS0.75sq	CN-3F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (BACK PRESS.)
963	BW	AVSS0.75sq	CN-3F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (P1 OPT.)
964	BL	AVSS0.75sq	CN-3F		CN-31M	MECHATRO CONTROLLER → PRESS. SENSOR (P2 OPT.)
965	BrB	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (PUMP P1)
966	BrY	AVSS0.75sq	CN-2F		CN-30F	MECHATRO CONTROLLER → PRESS. SENSOR (PUMP P2)
967A	BW	AVSS0.75sq	CN-27F		CN-38M	15PAF-J/B → ASSEL POTENTIO.
967B	BW	AVSS0.75sq	CN-27F		CN-35M	15PAF-J/B → ENG. CONTROLLER
967C	BW	AVSS0.75sq	CN-27F		CN-1F	15PAF-J/B → MECHATRO CONTROLLER
968	BL	AVSS0.75sq	CN-34F		CN-7F	15PAF-J/B → MECHATRO CONTROLLER
970	BP	AVSS0.75sq	CN-3F		CN-35F	MECHATRO CONTROLLER → REVOLUTION CLINOMETER
981A	GW	AVSS0.75sq	CN-4F		CN-27F	MECHATRO CONTROLLER → 15PAF-J/B
981B	GW	AVSS0.75sq	CN-31M		CN-27F	SW. ASSY (MODE, BUZZER STOP) → 15PAF-J/B
981C	GW	AVSS0.75sq	CN-38M		CN-27F	SW. ASSY (WIPER, WASHER, LIGHT) → 15PAF-J/B
981D	GW	AVS0.5sq	CN-51F		CN-27F	SW. BOX ASSY → 15PAF-J/B
982A	BG	AVS0.5sq	CN-51F		CN-26F	SW. BOX ASSY → 15PAF-J/B
982B	BG	AVSS0.75sq	CN-32M		CN-26F	CONFLUE/SINGLE SELECT SW. → 15PAF-J/B
982C	BG	AVSS0.75sq	CN-34F		CN-26F	STROKE-END PROXIMILITY SW. → 15PAF-J/B
982D	BG	AVSS0.75sq	CN-39F		CN-26F	OPT. → 15PAF-J/B
E1	B	AVS5sq	P-1	DOUBLE SPLICE	CN-33M	EARTH → EARTH
E21	B	AVSS1.25sq	P-1		CN-62F	EARTH → RESERVE
E2	B	AVSS0.75sq	CN-5F	DOUBLE SPLICE	CN-30F	MECHATRO CONTROLLER → EARTH
E3	B	AVSS0.75sq	CN-5F		CN-30F	MECHATRO CONTROLLER → EARTH
E4	B	AVSS0.75sq	CN-30F	DOUBLE SPLICE	CN-35M	EARTH → EARTH
E5	B	AVSS0.75sq	CN-30F		CN-35M	EARTH → EARTH
E6	B	AVSS0.75sq	CN-29F		CN-28F	WIPER RELAY ASSY → 11PAF-GND
E7	B	AVSS0.75sq	CN-31M		CN-28F	INST-PANEL B → 11PAF-GND
E8	B	AVSS1.25sq	CN-32M		CN-28F	INST-PANEL D → 11PAF-GND
E9	B	AVSS1.25sq	CN-36M		CN-28F	AIR CONDITIONER UNIT → 11PAF-GND
E10	B	AVSS1.25sq	CN-43F		CN-28F	RESERVE → 11PAF-GND
E11	B	AVSS0.75sq	CN-12F		CN-28F	SAFETY RELAY → 11PAF-GND
E12	B	AVSS0.75sq	CN-80F		CN-28F	WIPER INTERLOCK SW → 11PAF-GND
E15	B	AVSS0.75sq	CN-61F		CN-28F	INST-PANEL L → 11PAF-GND
E18	B	AVSS0.75sq	CN-57F		CN-28F	ONE WAY CALL AMP → 11PAF-GND
E19	B	AVSS0.75sq	CN-11F		CN-28F	KPSS RELEASE SW. → 11PAF-GND
E20	B	AVSS0.75sq	CN-11F		CN-28F	KPSS RELEASE SW. → 11PAF-GND
E13	B	AVSS1.25sq	M-1	DOUBLE SPLICE	P-3	OPT. WORK LIGHT → EARTH
E17	B	AVS5sq	P-2	DOUBLE SPLICE	P-3	EARTH → EARTH
E14	B	AVSS1.25sq	P-2		M-2	EARTH → CAB LIGHT
E16	B	AVSS0.75sq	CN-42F	DOUBLE SPLICE	P-4	AUTO GREASE CONTROLLER → EARTH
E22	B	AVSS0.75sq	CN-37F		P-4	ROOF WIPER MOTOR → EARTH

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