KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK330LC-6E

SK330NLC-6E

Applicable: SK330LC-6E LC07-06001 ~
Applicable: SK330NLC-6E YC07-02801~

S5LC0008E-02 11/01

MidWestTech | Kobelco SK330LC-6E, SK330NLC-6E Hydraulic Excavator Service Manual | Publication S5LC0008E-02

Order the manual at mid-west-tech.com >

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
1A	RY	AVSSO. 75sq	CN-5F		CN-9M	MEGNATRO CONTROLLER → FUSE BOX
1B	RY	AVSSO. 75sq	CN-9M		CN-27F	FUSE BOX → 15PAP-J/B
1C	RY	AVSSO. 75sq	CN-5F		CN-27F	MEGNATRO CONTROLLER → 15PAP-J/B
1D	RY	AVSSO. 75sq	CN-20F		CN-27F	RESISTOR → 15PAP-J/B
2A	WY	AVSSO. 75sq	CN-28F		CN-9M	15PAP-J/B → FUSE BOX
2B	WY	AVSSO. 75sq	CN-28F		CN-18F	15PAP-J/B → WORK LIGHT RELAY
2C	WY	AVSSO. 75sq	CN-28F		CN-29F	15PAP-J/B → WIPER RELAY ASSY
3A	G	AVSSO. 75sq	CN-9M		CN-35M	FUSE BOX → ENG. CONTROLLER
3B	R	AVSSO. 75sq	CN-9M		CN-35M	FUSE BOX → ENG. CONTROLLER
5	YL	AVSSO. 75sq	CN-9M		CN-38M	FUSE BOX → CIGARETTE LIGHTER
4A	Y	AVSSO. 75sq	CN-9M		CN-28F	FUSE BOX → 15PAP-J/B
4B	Y	AVSSO. 75sq	CN-14F		CN-28F	HEATER RELAY → 15PAP-J/B
4C	Y	AVSSO. 75sq	CN-14F		CN-28F	HEATER RELAY → 15PAP-J/B
4D	Y	AVSSO. 75sq	CN-35M		CN-28F	FUSE BOX → 15PAP-J/B
4E	Y	AVSSO. 75sq	CN-44F		CN-28F	FUSE BOX → 15PAP-J/B
8A	WG	AVSSO. 75sq	CN-9M		CN-27F	FUSE BOX → 15PAP-J/B
8B	WG	AVSSO. 75sq	CN-15F		CN-27F	HORN RELAY → 15PAP-J/B
8C	WG	AVSSO. 75sq	CN-15F		CN-27F	HORN RELAY → 15PAP-J/B
8	WV	AVSS1. 25sq	CN-9M		CN-30F	FUSE BOX → FUEL SUPPLY PUMP
9A	YB	AVSSO. 75sq	CN-9M		CN-28F	FUSE BOX → 15PAP-J/B
9B	YB	AVSSO. 75sq	CN-30F		CN-28F	ENG. ROOM LIGHT SW. → 15PAP-J/B
9C	YB	AVSSO. 75sq	CN-54F		CN-28F	ROOM LIGHT → 15PAP-J/B
9D	YB	AVSSO. 75sq	CN-9F		CN-28F	MEGNATRO CONTROLLER → 15PAP-J/B
9E	YB	AVSSO. 75sq	CN-39F		CN-28F	DC-DC CONVERTER → 15PAP-J/B
10	WV	AVSS1. 25sq	CN-9F		CN-36M	FUSE BOX → KEY SW.
11	OL	AVSSO. 75sq	CN-9F		CN-39F	FUSE BOX → AUTO BREAKE CONTROLLER
12	RG	AVSS1. 25sq	CN-9M		CN-56F	FUSE BOX → FLASHER RELAY
13	W	AVSSO. 75sq	CN-9M		CN-38M	FUSE BOX → POWER WINDOW CONTROLLER
14	RB	AVSS1. 25sq	CN-9M		CN-29F	FUSE BOX → WIPER RELAY ASSY
15A	WB	AVSSO. 75sq	CN-9M		CN-27F	FUSE BOX → 15PAP-J/B
15B	WB	AVSSO. 75sq	CN-13F		CN-27F	RESISTOR → 15PAP-J/B
15C	WB	AVSSO. 75sq	CN-32M		CN-27F	LEVER LOCK SW. → 15PAP-J/B
16	RW	AVSS1. 25sq	CN-9M		CN-18F	FUSE BOX → WORK LIGHT RELAY
17A	WL	AVSS1. 25sq	CN-9M		CN-28F	FUSE BOX → 15PAP-J/B
17B	WL	AVSS1. 25sq	CN-49F		CN-28F	CAB WORKING LIGHT RELAY → 15PAP-J/B
17C	WL	AVSSO. 75sq	CN-49F		CN-28F	CAB WORKING LIGHT RELAY → 15PAP-J/B
17D	WL	AVSS1. 25sq	CN-50F		CN-28F	CAB WORKING LIGHT RELAY → 15PAP-J/B
17E	WL	AVSSO. 75sq	CN-28F		CN-28F	15PAP-J/B → 15PAP-J/B
17F	WL	AVSSO. 75sq	CN-28F		CN-50F	15PAP-J/B → CAB WORKING LIGHT RELAY 2
17G	WL	AVSSO. 75sq	CN-28F		CN-32M	15PAP-J/B → ROTARY LIGHT SW.
18	WG	AVSS1. 25sq	CN-9M		CN-36M	FUSE BOX → AIR CONDITIONER ASY.
19	RL	AVSSO. 75sq	CN-9M		CN-36M	FUSE BOX → AIR CONDITIONER ASY.
20A	WR	AVSS1. 25sq	CN-9M	DOUBLE SPLICE	CN-43F	FUSE BOX → RESERVE
20B	WR	AVSS1. 25sq	CN-62F		CN-43F	RESERVE → RESERVE
30	G	AVSSO. 75sq	CN-12F		CN-30F	SAFETY RELAY → ALTERNATOR
50	L	AVSS1. 25sq	CN-9F		CN-36M	FUSE BOX → KEY SW.
51	W	AVS2sq	CN-9F		CN-30F	FUSE BOX → BATTERY RELAY
52	R	AVS5sq	CN-9F		CN-33M	FUSE BOX → BATTERY RELAY
53	Y	AVS5sq	CN-9F		CN-33M	FUSE BOX → BATTERY RELAY
54	R	AVS2sq	CN-9F		CN-30F	FUSE BOX → BATTERY RELAY
55	WP	AVSS1. 25sq	CN-9M		CN-30F	FUSE BOX → BATTERY RELAY
58	P	AVSSO. 75sq	CN-30F		CN-14F	GLOW RELAY → HEATER RELAY
59A	W	AVSSO. 75sq	CN-30F		CN-27F	BATTERY RELAY → 15PAP-J/B
59B	W	AVSSO. 75sq	CN-49F		CN-27F	DIODE → 15PAP-J/B
59C	W	AVSSO. 75sq	CN-12F		CN-27F	SAFETY RELAY → 15PAP-J/B

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
60A	WL	AVSSO. 75sq	CN-46F		CN-28F	DIODE → 15PAP-J/B
60B	WL	AVSSO. 75sq	CN-35M		CN-28F	KEY SW → 15PAP-J/B
60C	WL	AVSSO. 75sq	CN-35M		CN-28F	ENG. CONTROLLER → 15PAP-J/B
60D	WL	AVSSO. 75sq	CN-2F		CN-28F	MEGNATRO CONTROLLER → 15PAP-J/B
60E	WL	AVSSO. 75sq	CN-46F		CN-28F	DIODE → 15PAP-J/B
61A	GrB	AVSSO. 75sq	CN-35M		CN-27F	KEY SW → 15PAP-J/B
61B	GrB	AVSSO. 75sq	CN-2F		CN-27F	MEGNATRO CONTROLLER → 15PAP-J/B
61C	GrB	AVSSO. 75sq	CN-46F		CN-27F	DIODE → 15PAP-J/B
63A	WY	AVSSO. 75sq	CN-36M		CN-27F	KEY SW. → 15PAP-J/B
63B	WY	AVSSO. 75sq	CN-30F		CN-27F	STATER RELAY → 15PAP-J/B
63C	WY	AVSSO. 75sq	CN-35M		CN-27F	ENG. CONTROLLER → 15PAP-J/B
64	LW	AVSSO. 75sq	CN-30F		CN-12F	STARTER RELAY → SAFETY RELAY
65A	WR	AVSSO. 75sq	CN-30F		CN-28F	ALTERNATOR → 15PAP-J/B
65B	WR	AVSSO. 75sq	CN-2F		CN-28F	MEGNATRO CONTROLLER → 15PAP-J/B
65C	WR	AVSSO. 75sq	CN-36M		CN-28F	HORN METER → 15PAP-J/B
650	WR	AVSSO. 75sq	CN-12F		CN-28F	SAFETY RELAY → 15PAP-J/B
67	BG	AVSSO. 75sq	CN-14F		CN-35M	HEATER RELAY → ENG. CONTROLLER
80	GrR	AVSSO. 75sq	CN-36M		CN-29F	WIPER MOTOR → WIPER RELAY ASSY
81	GrB	AVSSO. 75sq	CN-36M		CN-29F	WIPER MOTOR → WIPER RELAY ASSY
82	GO	AVSSO. 75sq	CN-30F		CN-29F	WASHER MOTOR → WIPER RELAY ASSY
83	GO	AVSSO. 75sq	CN-30F		CN-15F	HORN LOW → HORN RELAY
84A	WR	AVSSO. 75sq	CN-15F		CN-27F	HORN RELAY → 15PAP-J/B
84B	WR	AVSSO. 75sq	CN-32M		CN-27F	HORN SW → 15PAP-J/B
84C	WR	AVSSO. 75sq	CN-36M		CN-27F	HORN SW → 15PAP-J/B
85A	WB	AVSS1. 25sq	CN-18F		CN-28F	WORK LIGHT RELAY → 15PAP-J/B
85B	WB	AVSS1. 25sq	CN-30F		CN-28F	BOOM WORKING LIGHT LEFT → 15PAP-J/B
85C	WB	AVSSO. 75sq	CN-31M		CN-28F	SW ASSY UNDER-BUCKET RIGHT → 15PAP-J/B
850	WB	AVSSO. 75sq	CN-35M		CN-28F	AIR CONDITIONER AMP. → 15PAP-J/B
85E	WB	AVSSO. 75sq	CN-36M		CN-28F	SW ASSY (TRVL, RADIO, LIGHT) → 15PAP-J/B
86	OW	AVSSO. 75sq	CN-30F		CN-32M	LEVER LOCK SOL. → LEVER LOCK SW.
87	YV	AVSSO. 75sq	CN-32M		CN-7F	LEVER LOCK SW. → MEGNATRO CONTROLLER
89A	BrL	AVSSO. 75sq	CN-32M		CN-27F	CAB WORK LIGHT SW. → 15PAP-J/B
89B	BrL	AVSSO. 75sq	CN-49F		CN-27F	CAB WORKING LIGHT RELAY → 15PAP-J/B
89C	BrL	AVSSO. 75sq	CN-50F		CN-27F	CAB WORKING LIGHT RELAY → 15PAP-J/B
90A	RY	AVSS1. 25sq	CN-49F		CN-28F	CAB WORKING LIGHT RELAY → 15PAP-J/B
90B	RY	AVSSO. 75sq	F-1		CN-28F	CAB WORKING LIGHT FRONT → 15PAP-J/B
90C	RY	AVSSO. 75sq	F-2		CN-28F	CAB WORKING LIGHT FRONT → 15PAP-J/B
900	RY	AVSSO. 75sq	F-5		CN-28F	CAB WORKING LIGHT FRONT → 15PAP-J/B
91	Y	AVSSO. 75sq	CN-32M		F-3	ROTARY LIGHT SW. → ROTARY LIGHT
92A	RW	AVSSO. 75sq	CN-50F		CN-27F	CAB WORKING LIGHT RELAY → 15PAP-J/B
92B	RW	AVSSO. 75sq	F-4		CN-27F	CAB WORKING LIGHT BACK → 15PAP-J/B
92C	RW	AVSSO. 75sq	F-6		CN-27F	CAB WORKING LIGHT FRONT → 15PAP-J/B
920	RW	AVSSO. 75sq	CN-30F		CN-27F	BACK LIGHT → 15PAP-J/B
94	RL	AVSSO. 75sq	CN-32M		CN-30F	EXTRA B BREAKER SW. → EXTRA SOL.
96	WG	AVSSO. 75sq	CN-36M		CN-39F	DC-DC CONVERTER → TUNER
97	YV	AVSSO. 75sq	CN-36M		CN-39F	DC-DC CONVERTER → TUNER
98	LW	AVSSO. 75sq	CN-36M		CN-25F	TUNER AMAFM → SPEAKER LEFT
99	Br	AVSSO. 75sq	CN-36M		CN-25F	TUNER AMAFM → SPEAKER LEFT
100	LR	AVSSO. 75sq	CN-36M		CN-24F	TUNER AMAFM → SPEAKER RIGHT
101	OB	AVSSO. 75sq	CN-36M		CN-24F	TUNER AMAFM → SPEAKER RIGHT
150	BP	AVSSO. 75sq	CN-36M		CN-30F	AIR CONDITIONER AMP. → RECEIVER DRIER
151	R	MVVSO. 75sq	CN-36M		CN-32M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
152	G	4 CORES SHIELD	CN-36M		CN-32M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
153	W		CN-36M		CN-32M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
154	B		CN-36M		CN-32M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
SH4	Gr		CN-36M		CN-32M	SHIELD →

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
329	LeR	AVSSO. 75sq	CN-35M		CN-44F	STAD LAMP (RED) → MEGNATRO CONTROLLER
330	Le	AVSSO. 75sq	CN-35M		CN-44F	STAD LAMP (YEL) → MEGNATRO CONTROLLER
401	GR	AVSSO. 75sq	CN-65F		CN-56F	DRIVE FLASHER LEFT REAR WORKING LIGHT → FLASHER RELYAY
402	YG	AVSSO. 75sq	CN-55F		CN-56F	DRIVE FLASHER LEFT REAR WORKING LIGHT → FLASHER RELYAY
403	Br	AVSSO. 75sq	CN-65F		CN-56F	DRIVE FLASHER LEFT REAR WORKING LIGHT → FLASHER RELYAY
500	LeR	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= BUCKET DIGGING
501	LeW	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= BUCKET DUMP
502	LeY	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= BOOM RAISING
503	LO	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= BOOM LOWERING
504	PG	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= ARM IN
505	PL	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= ARM OUT
506	VY	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= SWING RIGHT
507	VG	AVSSO. 75sq	CN-1F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= SWING LEFT
508	VY	AVSSO. 75sq	CN-1F		CN-31M	MEGNATRO CONTROLLER → PRESS. SENSOR= TRAVEL RIGHT
509	Sb	AVSSO. 75sq	CN-1F		CN-31M	MEGNATRO CONTROLLER → PRESS. SENSOR= TRAVEL LEFT
510	GR	AVSSO. 75sq	CN-2F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= P1 MEGA-CON.
511	LY	AVSSO. 75sq	CN-2F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= P2 MEGA-CON.
512	Sb	AVSSO. 75sq	CN-3F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= BACK PRESS.
513	LeR	AVSSO. 75sq	CN-5F		CN-31M	MEGNATRO CONTROLLER → PRESS. SENSOR= P1 OPT.
514	GO	AVSSO. 75sq	CN-3F		CN-31M	MEGNATRO CONTROLLER → PRESS. SENSOR= P2 OPT.
515	V	AVSSO. 75sq	CN-2F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= PUMP P1
516	L	AVSSO. 75sq	CN-2F		CN-30F	MEGNATRO CONTROLLER → PRESS. SENSOR= PUMP P2
517	P	AVSSO. 75sq	CN-1F		CN-36M	MEGNATRO CONTROLLER → ACCEL POTENTIO
520	LO	AVSSO. 75sq	CN-2F		CN-31M	MEGNATRO CONTROLLER → NOISEREDUCE CONNECTOR
540	LG	AVSSO. 75sq	CN-3F		CN-44F	MEGNATRO CONTROLLER → SWING LOCK FLASH SOLENOID SW.
541	PL	AVSSO. 75sq	CN-2F		CN-44F	MEGNATRO CONTROLLER → TWO-SPEED SELECT SW.
542A	GrG	AVSSO. 75sq	CN-4F		CN-27F	MEGNATRO CONTROLLER → 15PAP-J/B
542B	GrG	AVSSO. 75sq	CN-32M		CN-27F	POWER BOOST SW → 15PAP-J/B
542C	GrG	AVSSO. 75sq	CN-36M		CN-27F	POWER BOOST SW → 15PAP-J/B
543	GO	AVSSO. 75sq	CN-7F		CN-44F	MEGNATRO CONTROLLER → HEAVY LIFT SW.
545	Le	AVSSO. 75sq	CN-2F		CN-10F	MEGNATRO CONTROLLER → SWING PARKING RELEASE SW.
546A	PG	AVSSO. 75sq	CN-2F		CN-28F	MEGNATRO CONTROLLER → 15PAP-J/B
546B	PG	AVSSO. 75sq	CN-11F		CN-28F	KPSS MODE RELEASE SW. → 15PAP-J/B
546C	PG	AVSSO. 75sq	CN-11F		CN-28F	KPSS MODE RELEASE SW. → 15PAP-J/B
546D	PG	AVSSO. 75sq	CN-13F		CN-28F	RESISTOR → 15PAP-J/B
547	GB	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → ENG. WATER TEMP. SW.
548	GY	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → ENG. OIL PRESS. SW.
549	Le	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → AIR FILTER RESTRICTION SW.
550	BG	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → ENG. COOLANT LEVEL SW.
551	GL	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → ENG. COOLANT LEVEL SW.
552	BrL	AVSSO. 75sq	CN-4F		CN-30F	MEGNATRO CONTROLLER → HYD. FLUID LEVEL SW.
553A	VW	AVSSO. 75sq	CN-27F		CN-30F	15PAP-J/B → FUEL SENSER
553B	VW	AVSSO. 75sq	CN-27F		CN-4F	15PAP-J/B → MEGNATRO CONTROLLER
553C	VW	AVSSO. 75sq	CN-27F		CN-20F	15PAP-J/B → RESISTOR
555	BrW	AVSO. 5sq	CN-4F		CN-51F	MEGNATRO CONTROLLER → SW. BOX ASSY
557	L	AVSSO. 75sq	CN-4F		CN-36M	MEGNATRO CONTROLLER → WIPER MOTOR
558	G	AVSSO. 75sq	CN-4F		CN-36M	MEGNATRO CONTROLLER → WIPER MOTOR
559	PB	AVSSO. 75sq	CN-7F		CN-60F	MEGNATRO CONTROLLER → WIPER INTERLOCK SW
560	LeY	AVSSO. 75sq	CN-7F		CN-39F	MEGNATRO CONTROLLER → SWING FLASHER SW
562	O	AVSO. 5sq	CN-62F		CN-32M	SW. BOX ASSY → WARM-UP SW.
563	O	AVSSO. 75sq	CN-7F		CN-30F	MEGNATRO CONTROLLER → HYD. FLUID TEMP. SW.
564	LY	AVSO. 5sq	CN-32M		CN-52F	CONFIG/SHIELD SELECT SW. → SW. BOX ASSY
565	LW	AVSSO. 75sq	CN-6F		CN-30F	MEGNATRO CONTROLLER → ENG. OIL FILTER SW.
572	GrG	AVSO. 5sq	CN-31M		CN-52F	SW. ASSY (MODE, BUZZER STOP) → SW. BOX ASSY
573	V	AVSO. 5sq	CN-31M		CN-52F	SW. ASSY (MODE, BUZZER STOP) → SW. BOX ASSY
574	PL	AVSO. 5sq	CN-38M		CN-52F	SW. ASSY (WIPER, WASHER, LIGHT) → SW. BOX ASSY
575	LeB	AVSO. 5sq	CN-38M		CN-52F	SW. ASSY (WIPER, WASHER, LIGHT) → SW. BOX ASSY

MidWestTech | Kobelco SK330LC-6E, SK330NLC-6E Hydraulic Excavator Service Manual | Publication S5LC0008E-02

Order the manual at mid-west-tech.com >