KOBELCO

SHOP MANUAL

HYDRAULIC EXCAVATOR

SK850LC

SUPER ACERA

TIER 3

S5LY0001E02

Issued October 2009

APPLICABLE:
SK850LC. . . . . LY01-00101~

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4.40m (14ft-5in) ARM	LV12B00054F1

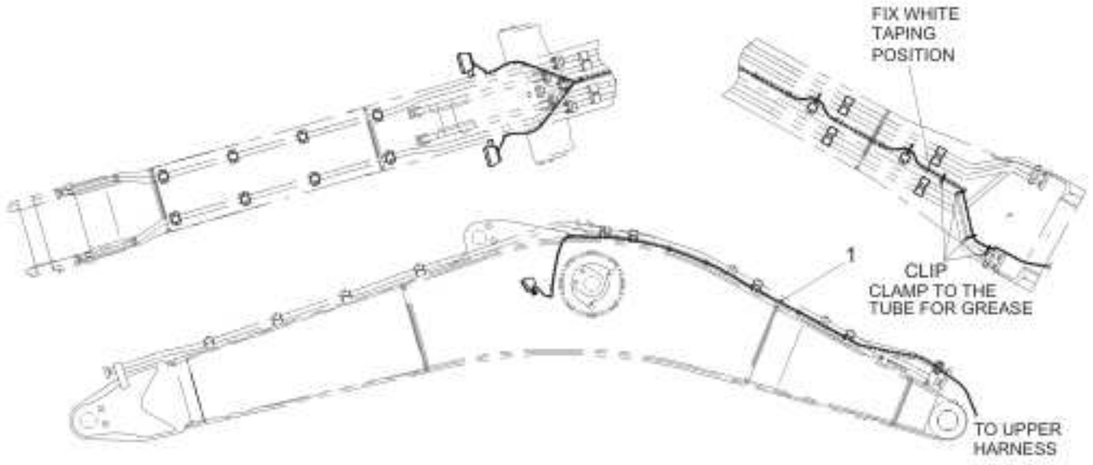
Unit : mm (ft-in)

Code	NAME	DIMENSION	Code	NAME	DIMENSION
C	Arm length	4,400 (14'5.2")	N	Bracket inner width	173 (6.81")
D	Distance between pins of boss and bracket	R1,360 (4'55")	O	Bracket inner width	183 (7.21")
D1	I.D of boss	ø150 (5.91")	P	Idler link dimension	890 (35.0")
D2	I.D of boss	ø130 (5.12")	Q	Bucket link dimension	820 (32.3")
D4	I.D of boss	ø160 (6.30")	R	Height between pins of boss and center	84 (3.31")
E	Distance between pins of boss and bracket	R3,203 (10'6.1")	d1	Pin dia.	ø130 (5.12")
F	Distance between pins of boss and boss	R600 (23.6")	d2	Pin dia.	ø110 (4.33")
G	Height between pins of boss and bracket	1,067 (3'6")	d3	Pin dia.	ø140 (5.51")
H	Height between pins of boss and bracket	477 (18.8")	d4	Pin dia.	ø140 (5.51")
K	Arm top end boss width	553 (21.8")	d5	Pin dia.	ø130 (5.12")
L	Arm link section boss width	528 (20.8")			
M	Boss width	555 (21.9")			

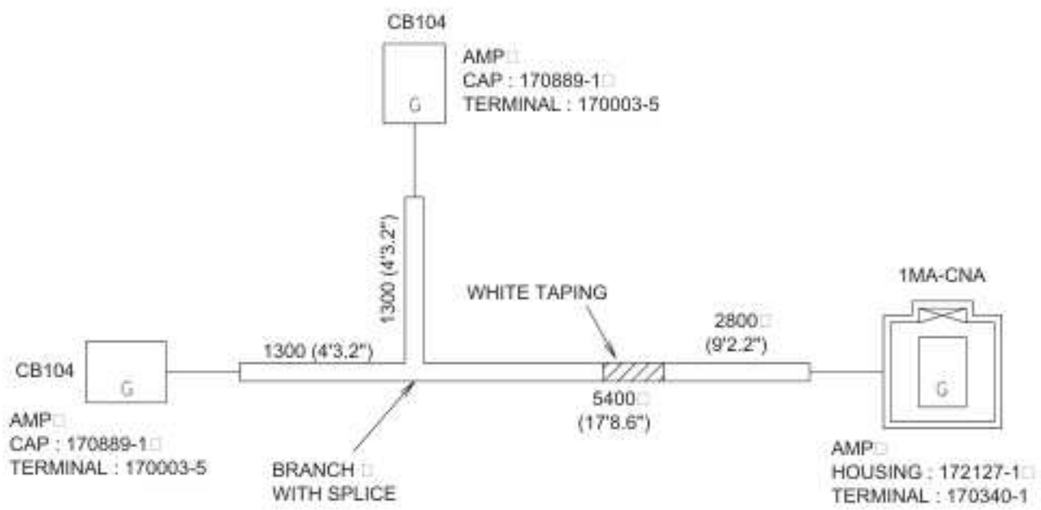
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23.3.10 BOOM HARNESS ASSY

BOOM HARNESS ASSY		LV15E00001F1	(01)	
ITEM	PART NAME	PART No.	Q'TY	REMARKS
1	HARNESS	LV15E01001P1	1	BOOM LIGHT

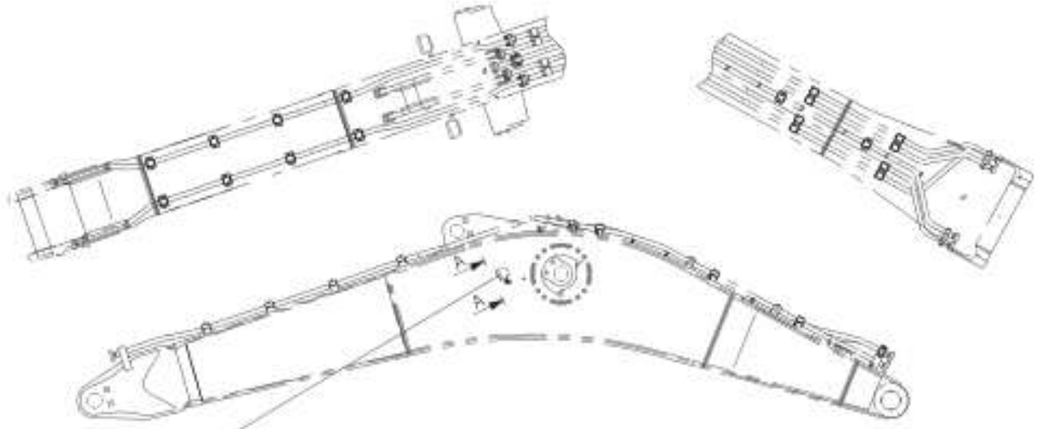


23.3.10-1 BOOM HARNESS : LV15E01001P1



23.3.11 INSTALLING BOOM LIGHT

INSTALLING BOOM LIGHT		LV80E00002F1	(01)	
ITEM	NAME	PARTS No.	Q'TY	REMARKS
1	LIGHT	YW80S00001F1	2	



SECTION AA

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Table 46-88

Error code	R044			
Trouble	Washer motor relay error			
Judging condition	The mechatro controller output line to washer motor relay is short-circuited with the power source.			
Symptom	Washer motor does not move.			
Control in the event of failure	Relay output is stopped.			
Returned in normal condition	When the power is OFF			
Service diagnosis checking screen	Screen No.	25	MOTOR RELAY	
	Screen No.			
	Screen No.			

	Checking object	Checking contents and remedy
1	• Washer motor relay R-32	When error is cancelled after removing washer motor relay, check relay unit for failure, replace it with new one if failed. When resistance between relays (1) and (2) is 0 Ω, it is in abnormal condition. 
2	• Wiring between washer motor relay and controller CN-112F, CN2-1 •Fuse & relay box E-1	When R044 is left displayed with the relay removed Check that no power 24V is produced on relay (-) line according to the wiring checking procedure and replace it if necessary. When no failure found after checking on wiring and R044 is left displayed Replace fuse/relay box.
3	• Mechatro controller	Check that the error is corrected after replacement of controller.

Table 46-89

Error code	R134			
Trouble	Swing flasher relay error			
Judging condition	The mechatro controller output line to swing flasher relay is short-circuited with the power source.			
Symptom	Right swing flasher does not light.			
Control in the event of failure	Relay output is stopped.			
Returned in normal condition	When the power is OFF			
Service diagnosis checking screen	Screen No.	22	D13	
	Screen No.			
	Screen No.			

	Checking object	Checking contents and remedy
1	• Swing flasher relay R-19	When error is cancelled after removing connector (CN-74F) of swing flasher relay, check relay unit for failure, replace it with new one if failed. When resistance between relays (HB) and (HC) is 0 Ω, it is in abnormal condition. 
2	• Wiring between swing flasher relay and controller CN-74F, CN-109F	When R134 is left displayed with the relay removed Check that no power 24V is produced on relay (-) line (as shown right upper figure C) according to the wiring checking procedure and replace it if necessary.
3	• Mechatro controller	Check that the error is corrected after replacement of controller.

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23.3.6-1 UPPER HARNESS (4/4) : LV13E01061P2

CONNECTORS SELECTION TABLE

CONNECTOR NAME (PIN NUM.)	MANUFAC.	PART. NUMBER						
		HOUSING	TERMINAL	HARNESS SEAL	RETAINER LOCKPLATE	SEALING PLUG	WIRECOVER	BAR
2FA-JM2	AMP	174352-2	173862-1		1-174353-1			
2WA-JM2	AMP	174354-2				172748-1		
3FA-JM2	AMP	174357-2	173862-1 173862-5		1-174358-1	172748-1		
3WA-JM2	AMP	174358-2				172748-1		
4FA-JM2	AMP	174257-2	173862-1	800334-4 (Ø1.8~1.9) 1-968325-8 (Ø2.8~3.3)	1-174259-1			
4WA-JM2	AMP	174258-2				172748-1		
10FA-JM2	AMP	174655-2	173862-1		1-174656-1			
12FA-JM2	AMP	174661-2	173862-1		1-174662-1	172748-1		CTB-6
12WA-JM2	AMP	174662-2				172748-1		
DRC84	AMP	170861-1	170862-5					
DRC84	AMP	170868-1	170863-5					
3FA-MSS	AMP	1-968418-8	170213-2					
2WY-Y58_B	YAZAKI	7222-4218-30	7114-3258	7157-3551-00	7157-8880-00			
2F3-0090	SUMITOMO	6189-0184	1980-6118	7169-0234 (AEX0.75sq) 7165-0070 (AVSS0.75sq)				
1MA-CNA	AMP	172227-1	175340-1					
1FA-CNA	AMP	172129-1	170032-2					
3FA-CNA	AMP	172132-1	170032-2					
4FA-MCP	AMP	936822-2	1-967588-1					
1MY-Y58_B	YAZAKI	7222-4210-30	7114-3258	7157-3551-00				
10FA-DRB2M	AMP	316013-6	175266-2					
20FA-DRB2M	AMP	316013-6	175266-2					
31FA-DRB3M	AMP	353031-1	316837-1 175267-2					
28FA-DRB3M	AMP	353028-1	316837-1 175267-2					
17FA-DRB3M	AMP	353017-1	316837-1					
12FA-DTBWL3	AMP	173853-1	173831-1					
18FA-DTBWL3	AMP	173852-1	173831-1					
12FA-DTBWL2	AMP	176118-6	173831-1					
14WA-DTBWL3	AMP	174954-1	173845-1					
22FA-HD	AMP	917689-6	175269-1 (0708) 175265-1 (0638)					
12FA-HD	AMP	917678-6	175269-1 (0708)					
8FJ-SMBBL3	SUMITOMO	6403-0116 6403-0175	6240-4428					
2FA-MQS	AMP	2-967843-1	965308-5	967087-1				
2FD-GT	DEUTSCH	0188-1570-P35	1062-16-0101			W20-P012		
12FD-GT	DEUTSCH	0188-1154-P05		114017		W12S-P012		
12MD-GT	DEUTSCH	0114-1154-P07	0462-202-16141	114017		W12P		
2FS-SMF	SUMITOMO	6353-0122	8100-1236 8100-1237			6318-3043		
3FY-HSB	YAZAKI	7123-8823-30	7116-2872	7157-3576-00	7157-8720-40			
3MY-HSB	YAZAKI	7223-8823-30	7116-2874	7157-3576-00	7157-8720-40	7157-3572-00		
2FY-LSB_B	YAZAKI	7123-4123-30	7116-3251	7157-8401-00				
1FY-305	YAZAKI	7123-3010	7116-3062					
20FA-DTBWL2	AMP	176118-6	175630-1					

WIRE No.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO
1A	RY	AVSS0.75sq	CN4-1		CN-105F
1B	RY	AVSS0.75sq	CN4-1		CN-105F
3A	L	AVSS1.25sq	CN4-1		CN-105F
3B	L	AVSS1.25sq	CN4-1		CN-106F
10	YG	AVSS0.75sq	CN4-1		CN-105F
11A	YB	AVSS0.75sq	CN4-1		CN-30F
11B	YB	AVSS0.75sq	CN-11F		CN-30F
11C	YB	AEX0.75sq	CN-202F		CN-30F
29	Gr	AVSS1.25sq	CN4-1		CN-74F
32	LR	AVSS1.25sq	CN-113F		CN4-2
41A	W	AEX35q	CN-201F		CN-207M
41B	W	AEX35q	CN-202F		CN-207M
51	W	AV85q	CN1		CN-257M
52A	R	AV85q	CN-258M		
52B	R	AV85q	CN1		
52C	R	AV35q	CN-201F		
52D	R	AV35q	CN-202F		
53	Y	AV85q	CN1		CN-257M
59	W	AVSS0.75sq	CN4-1		CN-256F
61A	GrB	AVSS0.75sq	P-20		CN-180F
61B	GrB	AVSS0.75sq	CN-107F		CN-180F
61C	GrB	AVSS0.75sq	CN-208M		CN-180F
62	W	AVSS0.75sq	CN-5F		CN-200F
63	WY	AEX1.25sq	CN-205F		CN-208M
64A	LW	AVSS0.75sq	CN-200F		CN-30F
64B	LW	AVSS0.75sq	CN-11F		CN-30F
64C	LW	AVSS0.75sq	CN-208F		CN-30F
65	WR	AVSS1.25sq	CN-205F		CN-208M
83A	GO	AVSS1.25sq	CN4-2		CN-30F
83B	GO	AVSS1.25sq	CN-170F		CN-30F
83C	GO	AVSS1.25sq	CN-108F		CN-30F
85	WB	AVSS1.25sq	CN4-2		CN-110F
86	OW	AVSS0.75sq	CN4-1		CN-116F
88	P	AVSS0.75sq	CN4-1		CN-138F
95A	WB	AVSS0.75sq	CN4-1		CN-180F
95B	WB	AVSS0.75sq	CN-208M		CN-180F
95C	WB	AVSS0.75sq	F-13		CN-180F
112	YR	AVSS0.75sq	CN-104F		T-1
150	BP	AVSS0.75sq	CN4-1		CN-133F
155	BR	AVSS0.75sq	F-1		CN-133F
216	O	AVSS0.75sq	CN4-2		CN-35F
218	P	AVSS0.75sq	CN4-1		CN-35F
225	G	AVSS0.75sq	CN4-1		CN-35F
227	PL	AVSS0.75sq	CN4-2		CN-35F
346	LG	AVSS0.75sq	CN-107F		CN-158F
351	GR	AVSS0.75sq	CN-206F		CN-571F
353A	W	AEX0.75sq	CN-205F		CN-180F
354A	B	SEALDED CABLE (2 CORE)	CN-205F		CN-180F
SH8A	Gr		CN-205F		CN-180F
353B	W	AEX0.75sq	CN-11F		CN-180F
354B	B	SEALDED CABLE (2 CORE)	CN-11F		CN-180F
SH8B	Gr		CN-11F		CN-180F
353C	W	AEX0.75sq	CN-208M		CN-180F
354C	B	SEALDED CABLE (2 CORE)	CN-208M		CN-180F
SH8C	Gr		CN-208M		CN-180F
357	RG	AVSS0.75sq	CN4-2		CN-205F

WIRE No.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO
401A	GR	AVSS0.75sq	CN-157F		CN-30F
401B	GR	AVSS0.75sq	CN-174F		CN-30F
401C	GR	AVSS0.75sq	CN-74F		CN-30F
402A	YG	AEX0.75sq	CN-157F		CN-30F
402B	YG	AVSS0.75sq	CN-174F		CN-30F
402C	YG	AVSS0.75sq	CN-74F		CN-30F
403A	Br	AEX0.75sq	CN-157F		CN-30F
403B	Br	AVSS0.75sq	CN-174F		CN-30F
403C	Br	AVSS0.75sq	CN-74F		CN-30F
507	YG	AVSS0.75sq	CN-169F		CN-103F
510	LGY	AVSS0.75sq	CN-704F		CN-104F
515	Y	AEX0.75sq	CN-139F		CN-103F
516	L	AEX0.75sq	CN-140F		CN-103F
546	P	AVSS0.75sq	CN-132F		CN-107F
547	GB	AVSS0.75sq	CN-132F		CN-134F
549	Lg	AEX0.75sq	F-12		CN-107F
550	BG	AVSS0.75sq	CN-206F		CN-107F
561	GR	AVSS0.75sq	CN-158F		CN-104F
567	SB	AVSS0.75sq	CN-158F		CN-107F
570	YB	AVSS0.75sq	CN4-2		CN-572M
571	YG	AVSS0.75sq	CN-107F		CN-571F
580	B	PEX850.5sq	CN-206F		CN-106F
581	W	SEALDED CABLE (2 CORE)	CN-206F		CN-106F
SH2	Gr		CN-206F		CN-106F
599	YG	AEX0.75sq	T-2		CN-104F
600	LW	AVSS0.75sq	CN-158F		CN-107F
601	BrR	AVSS0.75sq	CN-152F		CN-104F
700	WB	AVSS0.75sq	CN4-2		CN-256F
701	V	AVSS0.75sq	CN-158F		CN-105F
702	LGB	AVSS0.75sq	CN-122F		CN-105F
705	RL	AVSS0.75sq	CN-251F		CN-105F
713	BrY	AVSS0.75sq	CN-513M		CN-74F
715	Gw	AVSS0.75sq	CN-74F		CN-158F
716	WV	AVSS0.75sq	CN-74F		CN-158F
720	PB	AVSS0.75sq	CN-158F		CN-123F
740	BD	AVSS0.75sq	CN-118F		CN-105F
741	GrR	AVSS0.75sq	CN-118F		CN-105F
742	VR	AVSS0.75sq	CN-119F		CN-105F
743	GrB	AVSS0.75sq	CN-119F		CN-105F
744	BP	AVSS0.75sq	CN-120F		CN-105F
745	Pw	AVSS0.75sq	CN-120F		CN-105F
746	BrG	AVSS0.75sq	CN-105F		CN-121F
747	YV	AVSS0.75sq	CN-105F		CN-121F
748	V	AEX0.75sq	CN-105F		CN-141F
749	Lg	AEX0.75sq	CN-105F		CN-141F
750	W	AEX0.75sq	CN-105F		CN-142F
751	SB	AEX0.75sq	CN-105F		CN-142F
756	GB	AEX0.75sq	CN-105F		CN-145F
757	O	AEX0.75sq	CN-105F		CN-145F
758	Bw	AEX0.75sq	CN-106F		CN-144F
759	GyB	AEX0.75sq	CN-106F		CN-144F
780	B	AEX0.75sq	CN-206F		CN-208M
781	W	SEALDED CABLE (2 CORE)	CN-206F		CN-208M
SH6	Gr		CN-206F		CN-208M

WIRE No.	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO
907	YB	AVSS0.75sq	CN-103F		CN-169F
910	RL	AVSS0.75sq	CN-104F		CN-704F
915	Y	AEX0.75sq	CN-103F		CN-139F
916	R	AEX0.75sq	CN-103F		CN-140F
957	Br	AVSS0.75sq	CN-103F		CN-169F
960	BP	AVSS0.75sq	CN-104F		CN-704F
965	Br	AEX0.75sq	CN-103F		CN-139F
966	Gr	AEX0.75sq	CN-103F		CN-140F
991	GY	AVSS0.75sq	CN-152F		CN-104F
E2	B	AV55q	CN-150F		P-18
E4	B	AVSS0.75sq	CN-255F		M-13
E15	B	AVSS0.75sq	CN-255F		P-13
E16	B	AVSS0.75sq	CN-255F		CN-134F
E21	B	AVSS0.75sq	CN-255F		CN-174F
E54	B	AVSS1.25sq	CN-255F		
E46	B	AVSS1.25sq	CN-255F	DOUBLE SPLICE	P-15
E45	B	AVSS1.25sq	CN-255F		P-15
E54	B	AVSS1.25sq	CN-255F		
E5	B	AVSS1.25sq	CN-255F		CN-113F
E20	B	AVSS0.75sq	CN-256F		CN-262F
E13	B	AVSS0.75sq	CN-255F		M-12
E14	B	AVSS0.75sq	CN-255F		CN-138F
E6	B	AVSS1.25sq	CN-171F		P-5
E7	B	AVSS1.25sq	CN-109F		P-19
E8	B	AVSS0.75sq	CN-256F		P-1
E9	B	AVSS0.75sq	CN-116F	DOUBLE SPLICE	P-2
E61	B	AVSS0.75sq	CN-35F		P-2
E11	B	AVSS0.75sq	CN-122F	DOUBLE SPLICE	P-18
E12	B	AVSS0.75sq	CN-123F		P-18
E17	B	AVSS0.75sq	CN-261F	DOUBLE SPLICE	P-6
E19	B	AVSS0.75sq	CN-197F		P-6
E29	B	AVSS1.25sq	CN-105F	DOUBLE SPLICE	P-11
E30	B	AVSS1.25sq	CN-105F		P-11
E38	B	AVSS1.25sq	CN-106F	DOUBLE SPLICE	P-10
E39	B	AVSS1.25sq	CN-105F		P-10
E40	B	AV85q	CN1	DOUBLE SPLICE	P-9
E42	B	AVSS0.75sq	CN-74F		P-9
E56	B	AVSS0.75sq	CN4-2	DOUBLE SPLICE	P-14
E60	B	AVSS0.75sq	P-4		P-14
E57	B	AVSS0.75sq	CN-11F	DOUBLE SPLICE	P-8
E59	B	AVSS0.75sq	CN-574M	DOUBLE SPLICE	P-8
E58	B	AVSS0.75sq	CN-574M		CN-11F

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