KOBELCO

PARTS CATALOG

HYDRAULIC EXCAVATOR

SK290LC-6E

Revision Date: 12/2004

Applicable: SK290LC-6E LB04U02801~

LB91Z00002D2-01

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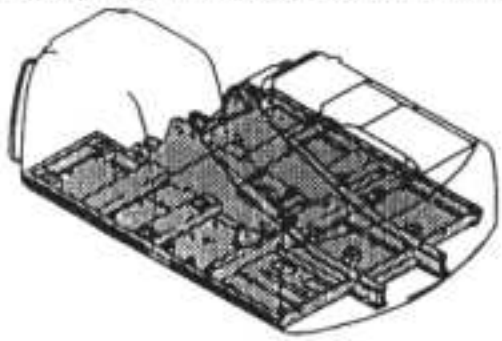
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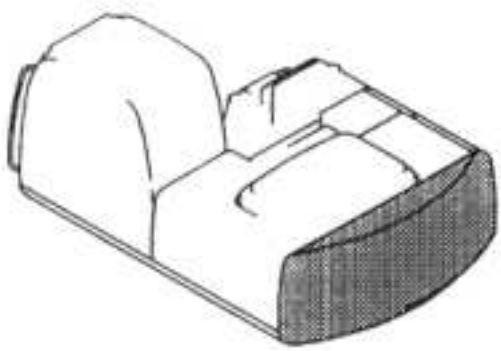
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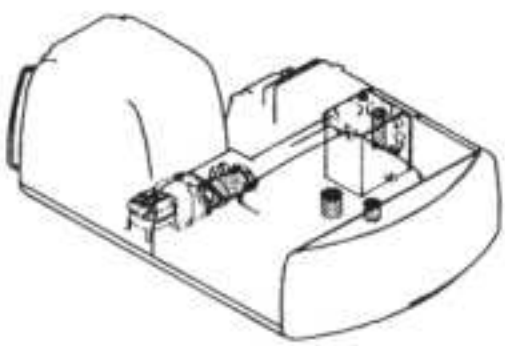




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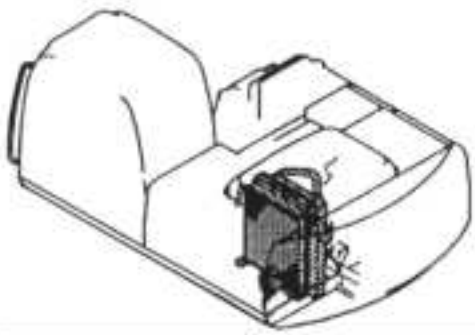
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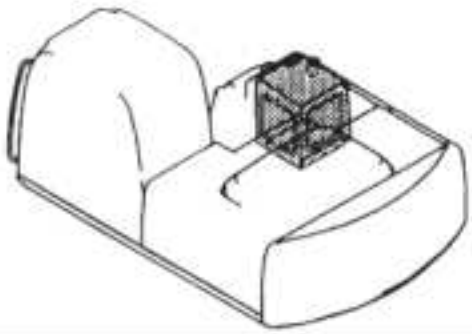
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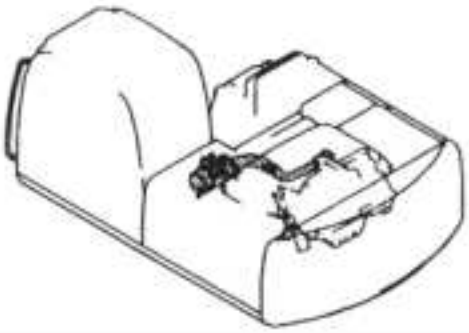
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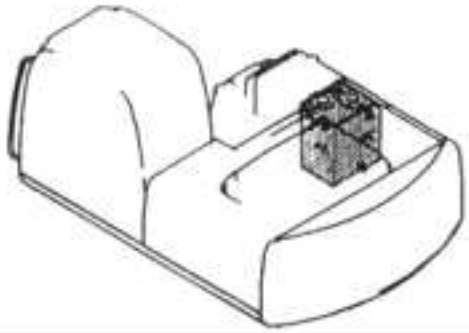
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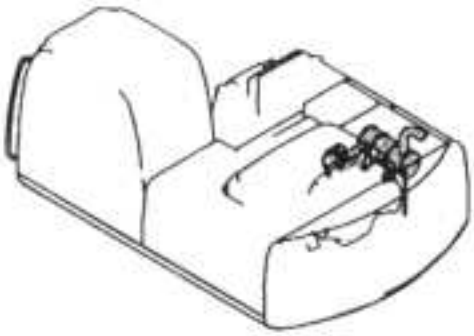
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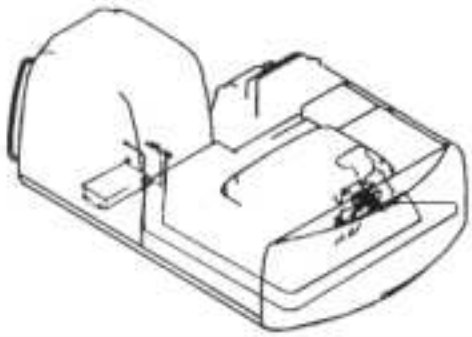
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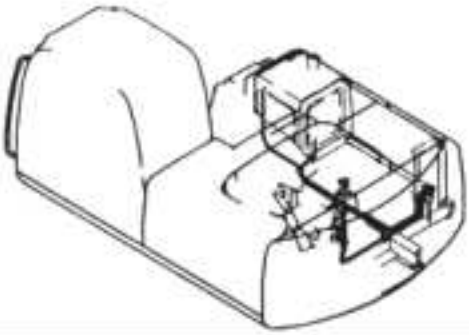
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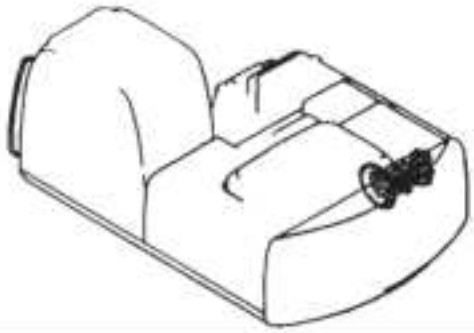
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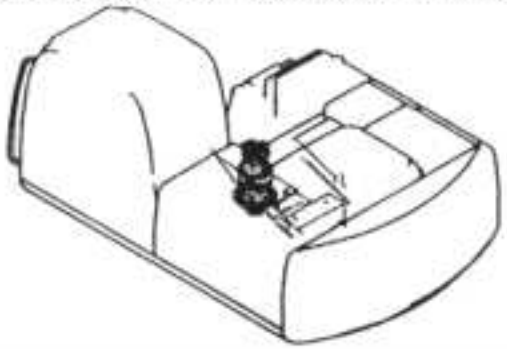
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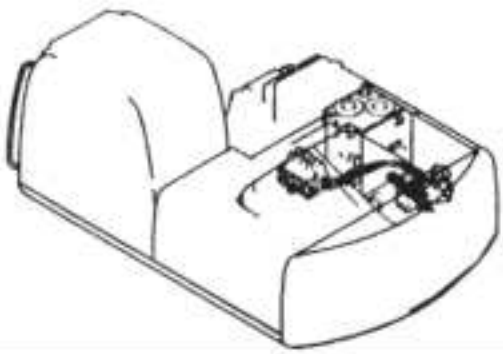
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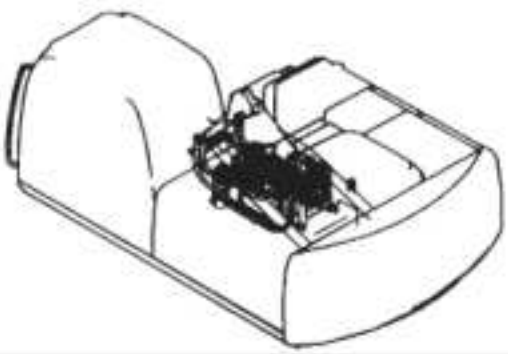
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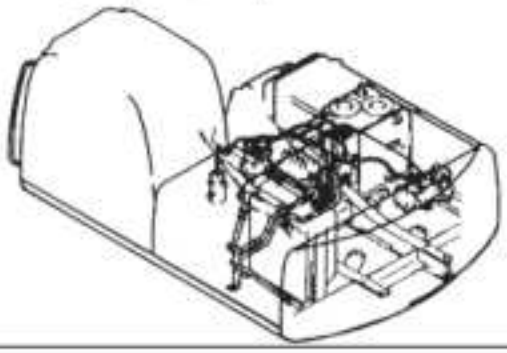
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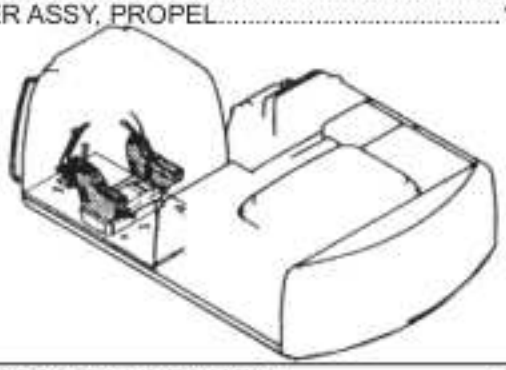
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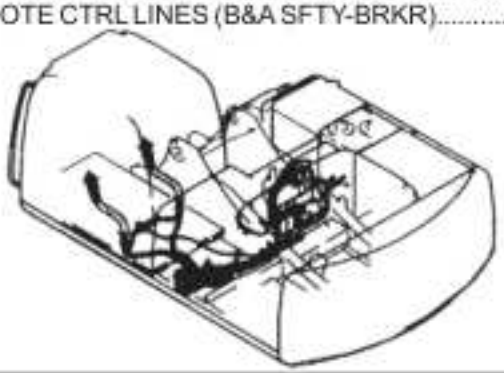
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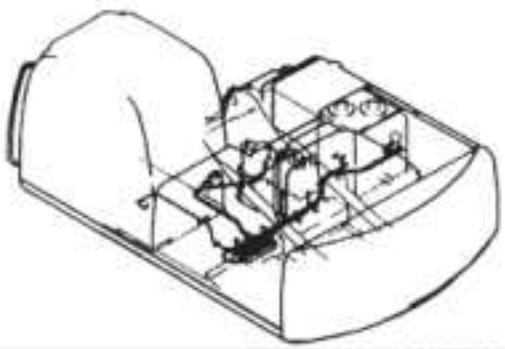
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LOWER INSTALLATION
(HIGH & WIDE)

LB04U0281~

ITEM	PART NUMBER	DESCRIPTION	QTY
		LOWER INSTAL (High & Wide)	
0	LC15V00005F4	MOTOR & REDUCTION UNIT Replaces LB15V00002F1	1
A1	LC02FU0011P1	LOW FRAME (High & Wide) Replaces LB02FU0002P1	1
A1-4	2429T640	STEP	4
A1-5	LC07FU1005P1	PLATE	4
A1-6	LC07FU1003P1	PLATE	2
A1-7	LC07FU1004P1	PLATE	2
	LC01FU0001F1	LOW GROUP (High & Wide) Replaces LB01FU0001F1	
B1	LC01FU1001P2	COVER	1
B2	LC01FU1002P2	COVER	1
B3	LC01FU1003P2	COVER	1
B4	LC01FU1004P2	COVER	1
B5	LC63D00002P1	TRACK GUIDE	6
B6	2422T556	PLATE	1
B7	2418T12274	PACKING	1
B8	2420P1613D3	CAPSCREW	24
B10	ZS18C10014	CAPSCREW	2
B11	ZM32C12025	SEMS BOLT	14
B13	ZW26X10000	LOCK WASHER	2
B14	LQ01FU1016P1	BOLT	2
B15	ZP16D05045	PIN	2
B16	ZN23C24027	NUT	2
B17	LQ01FU1015P1	BOLT	4
B18	LC01FU1005P1	COVER	2
B19	YN41CU0005P1	STEP	4
B20	ZS18C12035	CAPSCREW	8
B21	ZW26X12000	LOCKWASHER	8

ITEM	PART NUMBER	DESCRIPTION	QTY
	YN19H00040F2	JOINT INSTAL, SWIVEL Replaces YN19H00001F1	
C2	ZS18C12025	CAPSCREW (M12x25)	3
C3	ZS18F20120	CAPSCREW (M20x120)	1
C4	ZW16X12000	WASHER (M12)	3
C5	ZN18F20016	NUT (M20x16)	1
C6	YN55V00037F2	JOINT ASSY, SWIVEL	1
	LC53D00001F1	MOTOR INSTAL, PROPEL (H&W)	
D1	2404N431	SPROCKET	2
D2	2420P1613D4	CAPSCREW	36
D3	ZS13C20055	CAPSCREW	52
D4	ZW13H20000	WASHER (not shown)	52
	YN41CU0002F2	STEP EXTENTION (700mm Shoe)	
E2	YN41CU0004P1	STEP (50mm)	4
E3	ZS18C12050	CAPSCREW (M12x50)	8
E4	ZW26X12000	LOCK WASHER (M12)	8
E5	ZN18C12010	NUT (M12x10)	8
	YN41CU0002F1	STEP EXTENTION (800mm Shoe)	
F1	YN41CU0003P1	STEP (100mm)	4
F3	ZS18C12050	CAPSCREW (M12x50)	8
F4	ZW26X12000	LOCK WASHER (M12)	8
F5	ZN18C12010	NUT (M12x10)	8
	YN41CU0002F3	STEP EXTENTION (900mm Shoe)	
G3	ZS18C12050	CAPSCREW (M12x50)	8
G4	ZW26X12000	LOCK WASHER (M12)	8
G5	ZN18C12010	NUT (M12x10)	8
G6	YN41CU0005P1	STEP (150mm)	4

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BOOM ASSEMBLY 6.2M (20FT 5in)

LB04U0281~

(HD - S.A.)

ITEM	PART NUMBER	DESCRIPTION	QTY
		BOOM ASSY 6.2M (HD - S.A.)	
	LB02B00010F3	BOOM ASSY	
A2	LB02B01021P1	BUSHING	2
A3	LB02B00027P1	BOOM, HOE	1
A3-1	LB02B00012P1	BOOM	1
A3-1a	2418T22409	PLATE	1
A3-1b	LB02B01002P1	BLOCK, TAPPED	2
A3-1c	LB02B01004P1	BLOCK, TAPPED (RH)	1
A3-1d	LB02B01006P1	BLOCK, TAPPED (LH)	1
A3-1e	LB02B01008P1	BLOCK, TAPPED	8
A3-1f	2416T9878	BLOCK, TAPPED	2
A3-1g	LB02B01001P1	BRACKET	1
A3-2	LC02B01024P1	BLOCK, TAPPED	2
A3-3	LB02B01027P1	BLOCK, TAPPED	2
A3-4	LB02B01025P1	BLOCK, TAPPED	2
A3-5	LC02B01009P1	BLOCK, TAPPED	1
A3-6	LB02B01038P1	BLOCK, TAPPED	1
A3-7	LC02B01046P1	BLOCK, TAPPED	1
A3-8	LC02B01021P1	BRACKET	1
	LC02B00080F1	BOOM INSTAL	
B1	LC02B01100P1	PIN	1
B2	2418T24276	PLATE	1
B3	ZS18C20060	CAPSCREW (M20x60)	2
B4	ZW16H20000	WASHER (M20)	2
B5	2420T2747D22	SHIM, t0.9 (ID=112)	1
B6	2420T2747D23	SHIM, t1.2 (ID=112)	1
B7	2420T2747D24	SHIM, t1.6 (ID=112)	1
B8	2420T2747D25	SHIM, t2.3 (ID=112)	1
B9	LC02B01102D1	SHIM, t2.0 (ID=112)	
	LB02B00004F1	BOOM GROUP	

ITEM	PART NUMBER	DESCRIPTION	QTY
C1	2444R1117D100	HOSE (PF 3/8, L=1000mm)	2
C2	2444R1117D280	HOSE (PF 3/8, L=2800mm)	1
C3	2444R1117D290	HOSE (PF 3/8, L=2900mm)	1
C4	2444R1117D350	HOSE (PF 3/8, L=3500mm)	1
C5	ZH32Z04000	ELBOW (PF 1/4)	2
C6	ZG91S02000	FITTING, GREASE	6
C7	2445R138D10	SEAL, DUST	2
	LC02B00081F1	CYLINDER INSTAL, BOOM	
D1	LC02B01103P1	PIN	2
D2	LC02B01155P1	PIN	1
D3	2418T24277	COLLAR	2
D4	HS18C20190G2	CAPSCREW (M20x190)	4
D5	ZN18C20016	NUT (M20X16)	8
D6	2420T2747D19	SHIM, t0.9 (ID=102)	2
D7	2420T2747D2	SHIM, t1.2 (ID=102	2
D8	2420T2747D3	SHIM, t1.6 (ID=102)	2
D9	2420T2747D4	SHIM, t2.3 (ID=102)	2
D10	2420T2747D16	SHIM, t0.9 (ID=112)	2
D11	2420T2747D7	SHIM, t1.2 (ID=112)	2
D12	2420T2747D8	SHIM, t1.6 (ID=112)	2
D13	2420T2747D9	SHIM, t2.3 (ID=112)	2
D14	2420T2747D10	SHIM, t3.2 (ID=112)	2
D15	LC02B01105D1	SHIM, t2.0 (ID=112)	2
	LB02B00013F1	CYLINDER INSTAL, ARM	
E1	LB12B01029P1	PIN	1
E2	HS18C20180G2	CAPSCREW (M20x180)	1
E3	ZN18C20016	NUT (M20x16)	2
E4	2420T2747D16	SHIM, t0.9 (ID=112)	1
E5	2420T2747D7	SHIM, t1.2 (ID=112)	1
E6	2420T2747D8	SHIM, t1.6 (ID=112)	1
E7	2420T2747D9	SHIM, t2.3 (ID=112)	1
E8	LC02B01105D1	SHIM, t2.0 (ID=112)	

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ARM ASSEMBLY 81.M (27ft.)

(60ft.LONG REACH)

LB04U0281~

ITEM	PART NUMBER	DESCRIPTION	QTY
		ARM ASSY 8.1M (60ft. LONG RANGE)	
	LB12BU0002F2	ARM GROUP (LR) (JEWELL) Replaced by LB12BU0018F1	
A1	YM12B01003F1	LINK ASSY, BUCKET	1
A1-1	YM12B01004P1	LINK, BUCKET	1
A1-2	YM12B01006P1	BUSHING	2
A1-3	2405T1885	BUSHING	2
A2	2406P5564	LINK, IDLER (RH)	1
A3	2406P5565	LINK, IDLER (LH)	1
A4	2419P3895	PIN	2
A5	2419P3896	PIN	1
A6	YM12B01007P1	PIN	1
A7	HS18C14115G2	CAPSCREW (M14x115)	2
A8	2444R1117D150	HOSE (PF1/4-PF3/8; L=150mm)	1
A9	ZN18C14011	NUT (M14x11)	4
A10	2445R138D6	SEAL, DUST (ID=70)	4
A11	2445R138D4	SEAL, DUST (ID=65)	2
A13	2445R220D18	SEAL, DUST (ID=70)	4
A14	ZG91S02000	FITTING, GREASE (PT1/8)	5
A15	ZG91U02000	FITTING, GREASE (PT1/8)	2
A16	B16T0442D88	SHIM, t0.5 (67x100)	1
A17	2418T4037D3	SHIM, t0.9 (67x110)	1
A18	2418T4037D2	SHIM, t1.2 (67x110)	1
A19	2418T4037D5	SHIM, t1.6 (67x110)	1
A20	2445R138D9	SEAL, DUST (ID=100)	2
A21	YN12B01157P1	BRACKET	1
A22	ZS18C14055	CAPSCREW (M14x55)	6

ITEM	PART NUMBER	DESCRIPTION	QTY
A23	ZW16X14000	WASHER (M14)	6
A24	YN12B01153P1	SHIM	2
A25	YN12B01152P1	SHIM	2
	LB12BU0010F1	ARM ASSY 8.1M (LR) (JEWELL) Replaced by LB12BU0010F2	
B1	(N/A)	ARM	1
B2	LB12B01024P1	BUSHING	2
B3	YM12B01049P1	BUSHING	2
B4	YM12B01023P1	BUSHING	2
	LB12B00017F1	ARM INSTL Replaced BY LB12BU0006F1	
C1	LB12B01027P1	PIN	1
C2	LB12B01029P1	PIN	1
C3	2418T25076	PLATE	1
C4	HS18C20180G2	CAPSCREW (M20x180)	1
C5	ZS18C16035	CAPSCREW (M16x35)	2
C6	ZN18C20016	NUT (M20x16)	2
C7	ZW16H16000	WASHER (M16)	2
C8	2420T2747D16	SHIM, t0.9 (112x180)	1
C9	2420T2747D7	SHIM, t1.2 (112x180)	1
C10	2420T2747D8	SHIM, t1.6 (112x180)	1
C11	2420T2747D9	SHIM, t2.3 (112x180)	1
C12	LC02B01105D1	SHIM, t2.0 (112x180)	2
C13	2420T2747D15	SHIM, t0.9 (102x200)	1
C14	2420T2747D11	SHIM, t1.2 (102x200)	1
C15	2420T2747D31	SHIM, t1.6 (102x200)	1
C16	LB12B01030D1	SHIM, t2.0 (102x200)	2

CAUTION

Use of Power Boost/Heavy Lift is prohibited when an arm longer than 2.94M (9'8") is installed. Refer to KCMA LLC Service Bulletin No. HE-281 and or contact your closest KCMA LLC distributor.

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UPPER HARNESS ASSEMBLY
(HARNESS EXTENSION)

CONNECTORS SELECTION TABLE

CONNECTOR NAME (PIN NUM.)	MANUFAC	PART NUMBER HOUSING	TERMINAL	HARNESS SEAL	RETAINER LOCK PLATE	SEALING PLUG	CLIP	WIRE COVER	BOLT ASSY
3PAF	YAZAKI	7122-2237	7118-2090						
3PAM-HD30S	SUMITOMO	6098-0208	8232-4258				6810-1205		
100PAF-SAIC 3PAF	AMP YAZAKI	179218-6	175268-1 175269-2 7116-2871						
100PAM-SAIC	AMP	179220-6	917057-5 175273-1 7114-2871						
3PAF-HD30S	SUMITOMO	6098-0210	8242-4068						
3PAM	YAZAKI	7122-2237	7114-2020						

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
30	G	AVSS0.75sq			CN-30F	SAFETY RELAY → ALTERNATOR
51	W	AVS2sq			CN-30F	FUSE BOX ← HEATER RELAY
52	R	AVS5sq	CN-33F		CN-33M	FUSE BOX ← BATTERY RELAY
53	Y	AVS5sq	CN-33F		CN-33M	FUSE BOX ← BATTERY RELAY
58	P	AVSS0.75sq	CN-30M		CN-30F	FUSE BOX ← BATTERY RELAY
59	W	AVSS0.75sq	CN-30M		CN-30F	BATTERY RELAY → 1SPAF-J/B
63	WY	AVSS0.75sq			CN-30F	KEY SW. → STARTER RELAY
64	LW	AVSS0.75sq			CN-30F	SAFETY RELAY → STARTER RELAY
65	WR	AVSS0.75sq			CN-30F	ALTERNATOR → 1SPAF-J/B
82	GO	AVSS0.75sq			CN-30F	WASHER MOTOR ← WIPER RELAY ASSY
83	GO	AVSS0.75sq			CN-30F	HORN RELAY → HORN
85	WB	AVSS1.25sq			CN-30F	BOOM WORKING LIGHT → 1SPAF-J/B
86	OW	AVSS0.75sq			CN-30F	TIMER → OPERATING LEVER LOCK SOL.
88	PG	AVSS0.75sq			CN-30F	TRAVEL ALARM RELAY → TRAVEL ALARM
150	BP	AVSS0.75sq			CN-30F	AIR CONDITIONER AMP. → RECEIVER DRIER
401	GR	AVSS0.75sq	CN-40M		CN-40F	SWING FLASHER & REAR WORKING LIGHT → FLASHER RELAY
402	YG	AVSS0.75sq	CN-40M		CN-40F	SWING FLASHER & REAR WORKING LIGHT → FLASHER RELAY
403	Br	AVSS0.75sq	CN-40M		CN-40F	SWING FLASHER & REAR WORKING LIGHT → FLASHER RELAY
500	LgR	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: BUCKET DIGGING
501	LgW	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: BUCKET DUMP
502	LgY	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: BOOM RAISING
503	LO	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: BOOM LOWERING
504	PG	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: ARM IN
505	PL	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: ARM OUT
506	VY	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: SWING RIGHT
507	VG	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: SWING LEFT
510	Gr	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: P1 NEGA-CON.
511	LY	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: P2 NEGA-CON.
512	Sb	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: BACK PRESS.
515	V	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: PUMP P1
516	L	AVSS0.75sq			CN-30F	MECHATRO CONTROLLER ← PRESS.SENSOR: PUMP P2

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
544	GB	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → STEPPING MOTOR
547	GB	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.WATER TEMP.SW.
548	GY	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.OIL PRESS.SW.
549	Lg	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← AIR FILTER RESTRICTION SW.
550	BO	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.OIL LEVEL SW.
551	GL	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.COOLANT LEVEL SW.
552	BrL	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← HYD.FLUID LEVEL SW.
553	VW	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → 1SPAF-J/B
563	O	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← HYD.OIL TEMP. SW.
566	LW	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.OIL FILTER
580	R	MVVS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.REVOLUTION SENSOR
581	W		CN-30M		CN-30F	MECHATRO CONTROLLER ← ENG.REVOLUTION SENSOR
SH1	Gr		CN-30M		CN-30F	SHIELD
600	YR	AVSS0.75sq	CN-30M		CN-30F	CLUSTER GAUGE → COOLANT THERMO SENSOR
601	BrR	AVSS0.75sq	CN-30M		CN-30F	CLUSTER GAUGE ← FUEL SENSOR
700	WG	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← BATTERY RELAY
702	LgB	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← TWO-SPEED SELECT SOL.
703	P	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← POWER BOOST SOL.
720	PB	AVSS0.75sq	CN-30M		CN-30F	SWING PARKING RELEASE SW. ← SWING PARKING BRAKE SOL.
738	WG	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → SWING PRIORITY PROPORTIONAL SOL.
	G	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → SWING PRIORITY PROPORTIONAL SOL.
	BO	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → P2 BY-PASS CUT PROPORTIONAL SOL.
	GrR	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← P2 BY-PASS CUT PROPORTIONAL SOL.
	VR	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → TRAVEL PRIORITY PROPORTIONAL SOL.
	GrB	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← TRAVEL PRIORITY PROPORTIONAL SOL.
	BP	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → P1 BY-PASS CUT PROPORTIONAL SOL.
	PW	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← P1 BY-PASS CUT PROPORTIONAL SOL.
	BrG	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → ARM VARIABLE RECIRCULATION PROPORTIONAL SOL.
	YV	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← ARM VARIABLE RECIRCULATION PROPORTIONAL SOL.
752	WV	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → P1 INDEPENDENT TRAVEL PROPORTIONAL SOL.
753	GR	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← P1 INDEPENDENT TRAVEL PROPORTIONAL SOL.
754	WL	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER → P2 INDEPENDENT TRAVEL PROPORTIONAL SOL.
755	Lg	AVSS0.75sq	CN-30M		CN-30F	MECHATRO CONTROLLER ← P2 INDEPENDENT TRAVEL PROPORTIONAL SOL.

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