KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK200SR

SK200SRLC

Applicable: SK200SR YB01-01001~
Applicable: SK200SRLC LA01-01001~

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SHOP MANUAL SK200SR SK200SRLC

YB02

SPECIFICATION

TABLE OF CONTENTS

1. NAME OF COMPONENTS 1
2. GENERAL DIMENSION 2
3. WEIGHT OF COMPONENTS 4
4. TRANSPORTATION DIMENSION AND WEIGHT 5
5. MACHINE LIFTING PROCEDURE 9
6. WORKING RANGE 13
7. LIFTING DIAGRAM 15
8. SPECIFICATIONS AND PERFORMANCE 21
9. TYPE OF CRAWLER 22
10. TYPE OF BUCKET 23
11. COMBINATIONS OF ATTACHMENT 24
12. ENGINE SPECIFICATION 25

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ATTACHMENT DIMENSION

TABLE OF CONTENTS

1. BOOM
- 1.1 Boom dimensional drawing 1
- 1.2 Boom maintenance standard 2

2. ARM
- 2.1 Arm dimensional drawing 4
- 2.2 Arm maintenance standard 6

3. BUCKET
- 3.1 Bucket dimensional drawing 8
- 3.2 Bucket dimensional table 8
- 3.3 Detail dimensional drawing of lug section 9
- 3.4 Detail dimensional drawing of boss section 10

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TOOLS

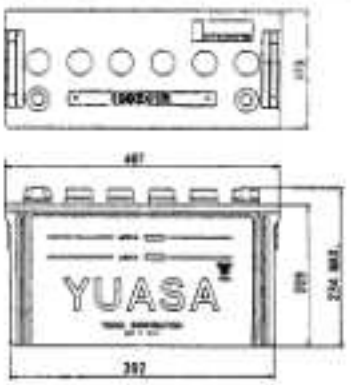
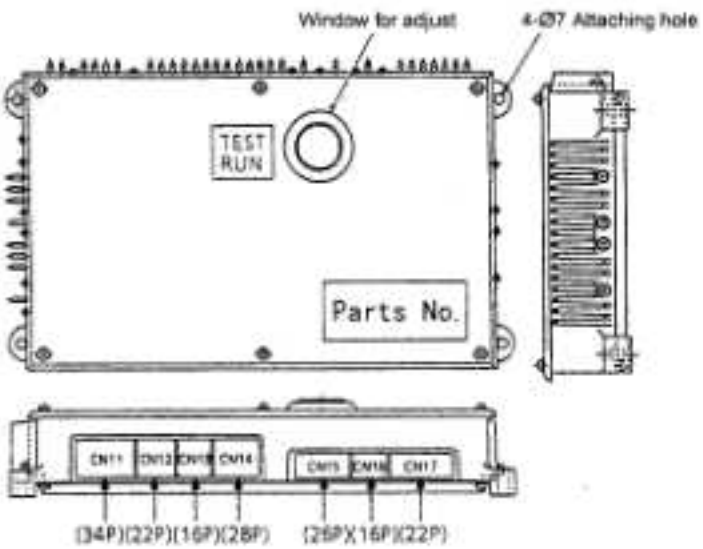
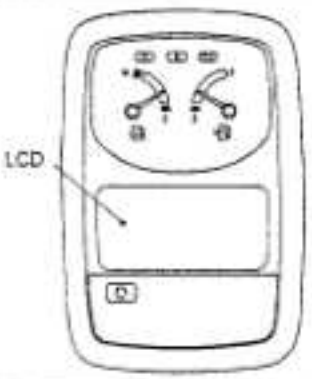
TABLE OF CONTENTS

1. TIGHTENING TORQUES FOR CAPSCREWS AND NUTS 1
2. SCREW SIZE 2
3. TIGHTENING TORQUES FOR NUTS AND SLEEVES 3
4. PLUG 4
5. SPECIAL SPANNER FOR TUBE 7
6. SPECIAL TOOLS 8
7. APPLICATION OF SCREW LOCKING COMPOUND AND SEALING COMPOUND 10
8. SUCTION STOPPER 11
9. COUNTER WEIGHT LIFTING JIG 12
10. UPPER FRAME LIFTING JIG 13
11. ENGINE MOUNTING PEDESTAL 14
12. TRACK SPRING SET JIG 14

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2.2. SPECIFICATION OF ELECTRIC EQIUPMENTS

File No. Name of part Part No. Use Applicable Machine	Specification	Description
B-1 Battery YN72S00004P1 Power YF01-00101~ YB01-01001~ LA01-01001~	Type: 130E41R Voltage: 12V Capacity 5HR: 92Ah Weight: 30kg (66 lbs) ⊖ Terminal ⊕ Terminal	
C-1 Controller YB22E00003F1 : EU YB22E00005F1 : KAI Mechatro controller YF01-00101~ YB01-01001~ LA01-01001~	Maker: SHINKO ELECTRIC Rated voltage: DC 24V	
C-2 Controller YY59S00001F2 : EU YY59S00001F1 : KAI Gauge cluster YV00101~ YY00101~ YF01-01001~ YB01-01001~ LA01-01001~	Maker: KANSEI Rated voltage: DC24V Insulation resistance: More than 3MΩ at 500Vmegger	

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1. CAB

1.1 REMOVAL

(1) Remove floor mat

(2) Remove the following parts for air-con cover.
1) Five bolts (25-9) for catch (24)
2) Cover (25-14) assy
3) Grille under front seat
4) Duct from duct (14) to under right duct on cab inside.

: Cross recessed screw driver
: 13mm

(3) Remove the following parts for harness and connector.
1) Antenna cable from back side of tuner
2) Harness for room lamp
3) Harness on cab front right side
4) Harness for gauge cluster

(4) Remove window washer tube

(5) Remove the following parts for cab mounting bolt
1) Five capscrews (A1)M10 (Fig. 1-2 Mark △)
2) Four nuts M16 (Fig. 1-2 Mark ○)
: 17mm, 24mm

(6) Slinging cab
1) Remove two plastic plugs on front side of cab ceiling, and attach eye bolts M10, and hook wire three places, two bolts and lifting eye, on rear left side.
2) Then lift up slowly avoiding interference with surroundings.
Wire with hook ;
Length 1.5m (4ft 11in) × Dia. 8mm (0.315in) × 3pcs.
Weight of cab ; Approx. 180kg (400 lbs)

1.2 INSTALLATION

Mount it in reverse procedure of Dismounting according to the Tightening Torque Table.

Tightening position	Tool	Tightening torque kgf-m (ft-lbs)
Nut M16	24	19.5 (140)
Capscrew (A1)	17	4.7 (34)

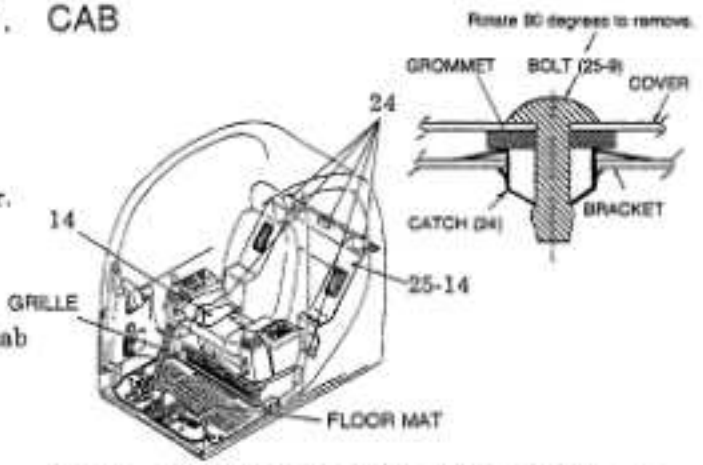


Fig. 1-1 Detaching and attaching air conditioner cover

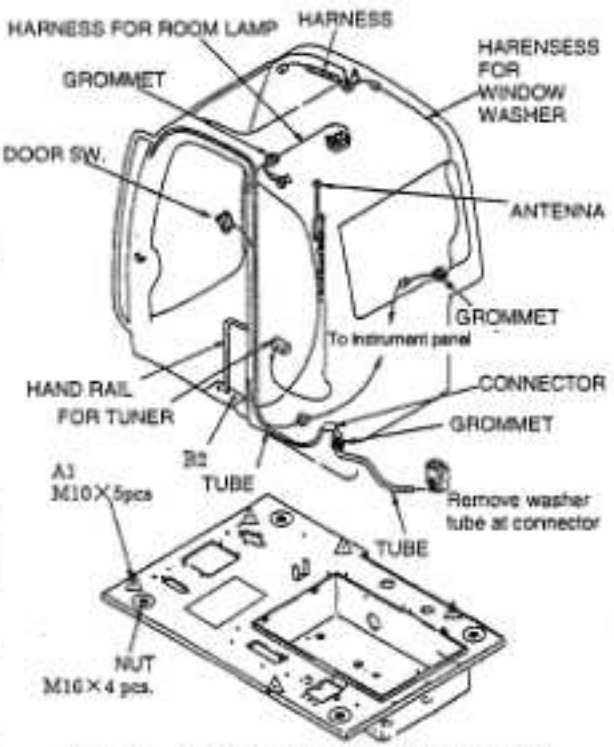


Fig. 1-2 Removing and attaching harness connector and cab mounting bolts

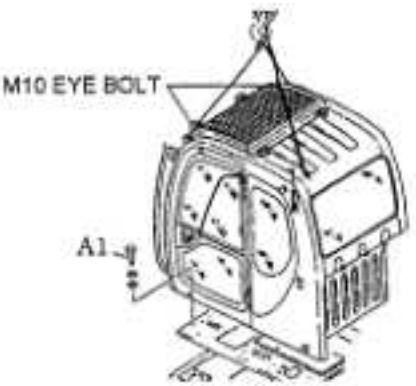


Fig. 1-3 Slinging cab

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Symptom	Cause	Remedy
Negative brake is released but the motor is late to start.	The viscosity of hydraulic oil is too high.	Raise the oil temperature.
Negative brake is released but the motor starts feebly.	1. Negative brake is not released completely. (The orifice in the release pressure path is clogged with dirt.)	1. Investigate to see if orifice is not clogged.
	2. Dirt is included in relief valve.	2. Clean relief valve. Inspect seat surface or replace relief valve.
	3. Sliding surfaces are seized.	3. Inspect and repair sliding surface or replace relief valve.

(3) Revolution does not reach a set value.

Symptom	Cause	Remedy
Pressure does not reach a set value.	1. Oil flow is insufficient.	1. Inspect pump, delivery rate and the oil path to motor.
	2. Shoe, cylinder block and valve plate are worn off or scratched much.	2. Inspect and repair faulty parts or replace faulty parts.

(4) Brake does not work.

Symptom	Cause	Remedy
Brake does not work.	Negative brake malfunctions.	Inspect and repair or replace brake piston, friction plate and spring.
	1. Friction plate is worn off.	
	2. Spring is broken.	
Reverse brake works.	Spool malfunctions	Correct or replace
	1. Spool and the body are stuck together.	
	2. Check valve is stuck or includes dirt.	
	3. The hole in the restrictor valve is clogged.	

(5) Oil leaks.

Symptom	Cause	Remedy
Oil leaks.	1. Bolts and plugs are loosen.	1. Tighten bolts or plugs to a specified torque.
	2. O rings are galled.	2. Replace O ring.
	3. Oil is leaking into gear casing.	3. Replace oil seal.

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WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
1A	RY	AVSSO. 75sq	CN-15F		CN-2F	MECHATRO CONTROLLER → FUSE BOX
1B	RY	AVSSO. 75sq	CN-15F	DOUBLE SPLICE	CN-42F	MECHATRO CONTROLLER → RESISTOR
1C	RY	AVSSO. 75sq	CN-2F		CN-42F	FUSE BOX → RESISTOR
2A	WY	AVSSO. 75sq	CN-36F		CN-2F	15PAP-J/B → FUSE BOX
2B	WY	AVSSO. 75sq	CN-37F		CN-26F	15PAP-J/B → WIPER MOTOR RELAY
2C	WY	AVSSO. 75sq	CN-38F		CN-25F	15PAP-J/B → WASHER MOTOR RELAY
2D	WY	AVSSO. 75sq	CN-39F		CN-31F	15PAP-J/B → TRAVEL ALARM RELAY
3	RL	AVSSO. 75sq	CN-76M		CN-1M	CIGARETTE LIGHTER → FUSE BOX
4A	OL	AVSSO. 75sq	CN-72F		CN-1M	J/C-GRAY → FUSE BOX
4B	OL	AVSSO. 75sq	CN-72F		CN-76M	J/C-GRAY → TO STB FRONT CAB
4C	OL	AVSSO. 75sq	CN-72F		CN-3M	J/C-GRAY → TO INST L
5A	WG	AVSSO. 75sq	CN-36F		CN-1M	15PAP-J/B → FUSE BOX
5B	WG	AVSSO. 75sq	CN-37F		CN-23F	15PAP-J/B → HORN RELAY
5C	WG	AVSSO. 75sq	CN-38F		CN-23F	15PAP-J/B → HORN RELAY
7	YG	AVSSO. 75sq	CN-15F		CN-1M	MECHATRO CONTROLLER → FUSE BOX
9A	YB	AVSSO. 75sq	CN-36F		CN-1M	15PAP-J/B → FUSE BOX
9C	YB	AVSSO. 75sq	CN-38F		CN-77F	15PAP-J/B → ROOM LIGHT
9D	YB	AVSSO. 75sq	CN-39F		CN-78M	15PAP-J/B → CONVERTER
9E	YB	AVSSO. 75sq	CN-40F		CN-3M	15PAP-J/B → TO INST L
10	WV	AVSS1. 25sq	CN-4M		CN-1M	KEY SW. → FUSE BOX
11A	R	AVSSO. 75sq	CN-22F	DOUBLE SPLICE	CN-1M	CAB WORK LIGHT RELAY → FUSE BOX
11B	R	AVSS1. 25sq	CN-22F	DOUBLE SPLICE	CN-22F	CAB WORK LIGHT RELAY → CAB WORK LIGHT RELAY 1
11C	R	AVSSO. 75sq	CN-10F		CN-22F	FUEL PUMP → CAB WORK LIGHT RELAY 1
12A	RG	AVSS1. 25sq	CN-31F	DOUBLE SPLICE	CN-1M	TRAVEL ALARM RELAY → FUSE BOX
12B	RG	AVSSO. 75sq	CN-31F		CN-74F	TRAVEL ALARM RELAY → FLASHER RELAY
13A	W	AVSSO. 75sq	CN-36F		CN-1M	15PAP-J/B → FUSE BOX
13C	W	AVSSO. 75sq	CN-38F		CN-78M	15PAP-J/B → CLUSTER GAUGE
14A	RB	AVSS1. 25sq	CN-72F		CN-1M	J/C-GRAY → FUSE BOX
14B	RB	AVSSO. 75sq	CN-72F		CN-26F	J/C-GRAY → WIPER MOTOR RELAY
14F	RB	AVSSO. 75sq	CN-72F		CN-21F	J/C-GRAY → ROOF WIPER SW.
14G	RB	AVSSO. 75sq	CN-72F		CN-25F	J/C-GRAY → WASHER MOTOR RELAY
15	WB	AVSSO. 75sq	CN-3M		CN-1M	LEVER LOCK SW. → FUSE BOX
16A	RW	AVSS1. 25sq	CN-36F		CN-1M	15PAP-J/B → FUSE BOX
16B	RW	AVSS1. 25sq	CN-37F		CN-24F	15PAP-J/B → WORK LIGHT RELAY
16C	RW	AVSSO. 75sq	CN-38F		CN-24F	15PAP-J/B → WORK LIGHT RELAY
17	WL	AVSSO. 75sq	CN-34F		CN-1M	RESISTOR → FUSE BOX
18	WG	AVSS1. 25sq	CN-3M		CN-1M	AIR CONDITIONER AMP. → FUSE BOX
19	RL	AVSSO. 75sq	CN-3M		CN-1M	AIR CONDITIONER AMP. → FUSE BOX
20	WR	AVSSO. 75sq	CN-28F		CN-1M	POWER RESERVE → FUSE BOX
50	L	AVSS1. 25sq	CN-4M		CN-2F	KEY SW. → FUSE BOX
51	W	AVS2sq	CN-10F		CN-2F	BATTERY RELAY → FUSE BOX
52	R	AVS5sq	CN-70M		CN-2F	BATTERY RELAY → FUSE BOX
53	Y	AVS5sq	CN-70M		CN-2F	BATTERY RELAY → FUSE BOX
60A	GrL	AVSSO. 75sq	CN-36F		CN-12F	15PAP-J/B → MECHATRO CONTROLLER
60B	GrL	AVSSO. 75sq	CN-37F		CN-33F	15PAP-J/B → DIODE
60C	GrL	AVSSO. 75sq	CN-38F		CN-4M	15PAP-J/B → KEY SW.
60D	GrL	AVSSO. 75sq	CN-39F		CN-33F	15PAP-J/B → DIODE
61A	BrY	AVSSO. 75sq	CN-36F		CN-12F	15PAP-J/B → MECHATRO CONTROLLER
61B	BrY	AVSSO. 75sq	CN-37F		CN-32F	15PAP-J/B → DIODE
61C	BrY	AVSSO. 75sq	CN-38F		CN-32F	15PAP-J/B → DIODE
61D	BrY	AVSSO. 75sq	CN-39F		CN-4M	15PAP-J/B → KEY SW.

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
62A	GrB	AVSSO. 75sq	CN-36F		CN-4M	15PAP-J/B → KEY SW.
62B	GrB	AVSSO. 75sq	CN-37F		CN-32F	15PAP-J/B → DIODE
62C	GrB	AVSSO. 75sq	CN-38F		CN-10F	15PAP-J/B → GLOW RELAY
62D	GrB	AVSSO. 75sq	CN-39F		CN-57F	15PAP-J/B → DIODE
63	WY	AVSSO. 75sq	CN-4M		CN-10F	KEY SW. → SAFETY RELAY
64A	GW	AVSSO. 75sq	CN-36F		CN-33F	15PAP-J/B → DIODE
64B	GW	AVSSO. 75sq	CN-37F		CN-10F	15PAP-J/B → BATTERY RELAY
64C	GW	AVSSO. 75sq	CN-38F		CN-33F	15PAP-J/B → DIODE
80	LY	AVSSO. 75sq	CN-21F		CN-26F	WIPER MOTOR → WIPER MOTOR RELAY
81	BrB	AVSSO. 75sq	CN-21F		CN-25F	WIPER MOTOR → WIPER MOTOR RELAY
82	GO	AVSSO. 75sq	CN-25F		CN-10F	WASHER MOTOR RELAY → WINDOW WASHER MOTOR
83A	WL	AVSSO. 75sq	CN-23F		CN-36F	HORN RELAY → 15PAP-J/B
83B	WL	AVSSO. 75sq	CN-10F		CN-37F	HORN → 15PAP-J/B
83C	WL	AVSSO. 75sq	CN-10F		CN-38F	HORN → 15PAP-J/B
84A	WB	AVSSO. 75sq	CN-3M		CN-36F	HORN SW. → 15PAP-J/B
84B	WB	AVSSO. 75sq	CN-23F		CN-37F	CONTROL CUT LIMIT SW. → 15PAP-J/B
84C	WB	AVSSO. 75sq	CN-4M		CN-38F	HORN SW. → 15PAP-J/B
85A	WB	AVSS1. 25sq	CN-36F		CN-24F	15PAP-J/B → WORK LIGHT RELAY
85B	WB	AVSSO. 75sq	CN-37F		CN-10F	15PAP-J/B → ROOM WORKING LIGHT LEFT
85C	WB	AVSSO. 75sq	CN-38F		CN-10F	15PAP-J/B → WORKING LIGHT RIGHT
85D	WB	AVSSO. 75sq	CN-39F		CN-3M	15PAP-J/B → AIR CONDITIONER AMP.
85E	WB	AVSSO. 75sq	CN-40F		CN-4M	15PAP-J/B → SWITCH ASSY
86	DW	AVSSO. 75sq	CN-500F		CN-10F	TIMER RELAY → OPERATING LEVER LOCK SW.
87A	WL	AVSSO. 75sq	CN-500F	DOUBLE SPLICE	CN-17F	TIMER RELAY → MECHATRO CONTROLLER
87B	WL	AVSSO. 75sq	CN-500F		CN-3M	TIMER RELAY → LEVER LOCK SW.
88	LR	AVSSO. 75sq	CN-18F		CN-3M	SPEAKER RIGHT → TUNER
89	DB	AVSSO. 75sq	CN-19F		CN-3M	SPEAKER RIGHT → TUNER
90	LW	AVSSO. 75sq	CN-28F		CN-3M	SPEAKER LEFT → TUNER
91	Br	AVSSO. 75sq	CN-29F		CN-3M	SPEAKER LEFT → TUNER
92	BP	AVSSO. 75sq	CN-3M		CN-10F	A/E RELAY → ACCEIVER DRIVER
178	L	AVSS1. 25sq	F-4		CN-22F	CAB WORKING LIGHT (OPT) → CAB WORK LIGHT RELAY 1
180	OL	AVSSO. 75sq	CN-28F		CN-43M	WIPER MOTOR RELAY → WIPER MOTOR INTER LOCK SW.
181	R	MVVSO. 75sq	CN-3M		CN-3M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
184	B	4 CORES SHIELD	CN-3M		CN-3M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
608	G		CN-3M		CN-3M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
609	W		CN-3M		CN-3M	AIR CONDITIONER AMP. → AIR CONDITIONER SW.
SH2	Gr		CN-3M		CN-3M	SHIELD
185	LY	AVSSO. 75sq	CN-22F		CN-4M	CAB WORK LIGHT RELAY 1 → CAB WORK LIGHT SW.
206	PG	AVSSO. 75sq	CN-31F		CN-10F	TRAVEL ALARM RELAY → TRAVEL ALARM
207	PB	AVSSO. 75sq	CN-76M		CN-3M	CONVERTER → ROCKET
208	PW	AVSSO. 75sq	CN-76M		CN-3M	CONVERTER → ROCKET
209	LY	AVSSO. 75sq	CN-74F		CN-10F	FLASHER RELAY → DRIVE FLASHER RIGHT
210	La	AVSSO. 75sq	CN-74F		CN-10F	FLASHER RELAY → DRIVE FLASHER LEFT
500	LeR	AVSSO. 75sq	CN-11F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 BUCKET SENSOR)
501	LeW	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 BOOM SENSOR)
502	LeY	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 ARM SENSOR)
503	LO	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 SWING SENSOR)
504	PW	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 TRAVEL SENSOR)
505	PL	AVSSO. 75sq	CN-11F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 ARM OUT)
506	V	AVSSO. 75sq	CN-11F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 SWING RIGHT)
507	VW	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 SWING LEFT)
508	VY	AVSSO. 75sq	CN-11F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 TRAVEL RIGHT)

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
509	Sb	AVSSO. 75sq	CN-11F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 1 TRAVEL LEFT)
510	GO	AVSSO. 75sq	CN-13F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 2 BUCKET)
511	LeY	AVSSO. 75sq	CN-13F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 2 ARM)
512	LeR	AVSSO. 75sq	CN-12F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 2 BOOM)
513	VO	AVSSO. 75sq	CN-12F		CN-251M	MECHATRO CONTROLLER → PEDAL SENSOR (LOW 2 SWING)
514	VY	AVSSO. 75sq	CN-12F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (HIGH PI)
515	Sb	AVSSO. 75sq	CN-12F		CN-10F	MECHATRO CONTROLLER → PEDAL SENSOR (HIGH PI)
530	P	AVSSO. 75sq	CN-11F		CN-4M	MECHATRO CONTROLLER → ACCEL POTENTIO
534	B	MVVSO. 75sq	CN-12F		CN-10F	MECHATRO CONTROLLER → ENG. REVOLUTION SENSOR
535	W	2 CORES SHIELD	CN-12F		CN-10F	MECHATRO CONTROLLER → ENG. REVOLUTION SENSOR
SH3	Gr		CN-12F		CN-10F	SHIELD
536	BrR	AVSSO. 75sq	CN-76M		CN-10F	CLUSTER GAUGE → FUEL SENSOR
537	YR	AVSSO. 75sq	CN-76M		CN-10F	CLUSTER GAUGE → COOLANT THERMO SENSOR
550	O	AVSSO. 75sq	CN-14F		CN-10F	MECHATRO CONTROLLER → ENG. OIL PRESS SW.
551	BrL	AVSSO. 75sq	CN-14F		CN-10F	MECHATRO CONTROLLER → AIR FILTER RESTRICTION SW.
552	GB	AVSSO. 75sq	CN-14F		CN-10F	MECHATRO CONTROLLER → ENG. WATER TEMP SW.
553A	BrB	AVSSO. 75sq	CN-14F	DOUBLE SPLICE	CN-42F	MECHATRO CONTROLLER → RESISTOR
553B	BrB	AVSSO. 75sq	CN-10F		CN-42F	FUEL SENSOR → RESISTOR
555	LB	AVSSO. 75sq	CN-17F		CN-3M	MECHATRO CONTROLLER → BYPASS SW.
556	LO	AVSSO. 75sq	CN-12F		CN-71M	MECHATRO CONTROLLER → MAINTENANCE CONNECTOR
557	Gr	AVSSO. 75sq	CN-17F		CN-3M	MECHATRO CONTROLLER → TO INST L
558	YV	AVSSO. 75sq	CN-14F		CN-35F	MECHATRO CONTROLLER → FLOW CONTROLLER
559	PL	AVSSO. 75sq	CN-12F		CN-251M	MECHATRO CONTROLLER → TWO-SPEED SELECT SW.
560	V	AVSSO. 75sq	CN-11F		CN-10F	MECHATRO CONTROLLER → STOPPING MOTOR
561	Le	AVSSO. 75sq	CN-12F		CN-27F	MECHATRO CONTROLLER → ENGINE PARKING RELEASE SW.
563	PL	AVSSO. 75sq	CN-14F		CN-3M	MECHATRO CONTROLLER → DOUBLE SINGLE SELECT SOL.
567	GB	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → POWER BOOST SW.
568	GO	AVSSO. 75sq	CN-15F		CN-78M	MECHATRO CONTROLLER → HEAVY LIFT SW.
584	VY	AVSSO. 75sq	CN-14F		CN-10F	MECHATRO CONTROLLER → HYD. FLUID TEMP SW.
588	VG	AVSSO. 75sq	CN-17F		CN-4M	MECHATRO CONTROLLER → TO INST R
600	R	MVVSO. 5sq	CN-14F		CN-78M	MECHATRO CONTROLLER → CLUSTER GAUGE
601	W	3 CORES SHIELD	CN-14F		CN-78M	MECHATRO CONTROLLER → CLUSTER GAUGE
602	B		CN-14F		CN-78M	MECHATRO CONTROLLER → CLUSTER GAUGE
SH4	Gr		CN-14F		CN-78M	SHIELD
603	LeR	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → SWITCH ASSY
604	LG	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → SWITCH ASSY
605	VG	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → SWITCH ASSY
606	BrW	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → SWITCH ASSY
607	GW	AVSSO. 75sq	CN-14F		CN-4M	MECHATRO CONTROLLER → SWITCH ASSY

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