KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK80MSR

SK80CS

Applicable: SK80MSR LF01-00501~
Applicable: SK80CS LF01-00501~

S5LF0002E-00 03/91

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SHOP MANUAL SK80CS

LF02

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3.11.2-37 WIPER HARNESS : YT02C01106P1

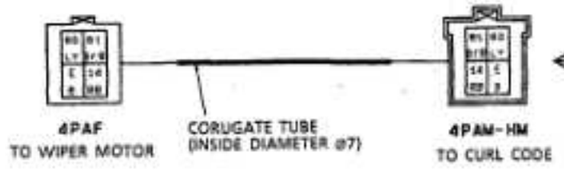


Fig. 28

3.11.61 CURL CODE HARNESS : YT02C01104P1

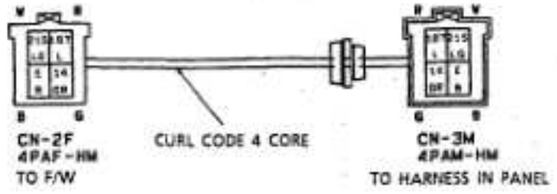
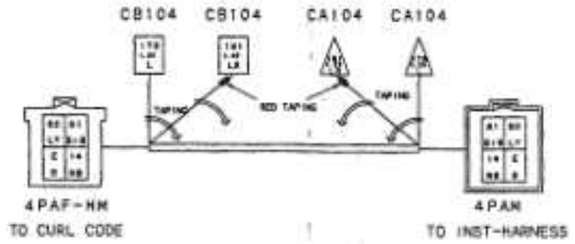


Fig. 29

3.11.64 CAB WIPER MOTOR HARNESS : YT02C01216P3



CONNECTORS SELECTION TABLE

CONNECTOR NAME (PIN NOS.)	MANUFAC.	PART NUMBER	
		HOUSING	TERMINAL
4PAF-HM	SUMITOMO	6098-1011	6240-4422
4PAM	YAZAKI	7122-5446	7114-5020
CA104	YAZAKI	7120-6012	7113-1020-02
CB104	YAZAKI	7120-1010	7116-1020-02

Fig. 30

3.11.65 ANTENNA : YT54S00001P1

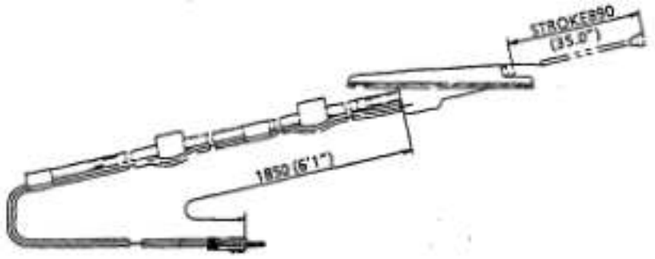


Fig. 31

3.11.189 ROOM LAMP HARNESS : YT02C01308P1

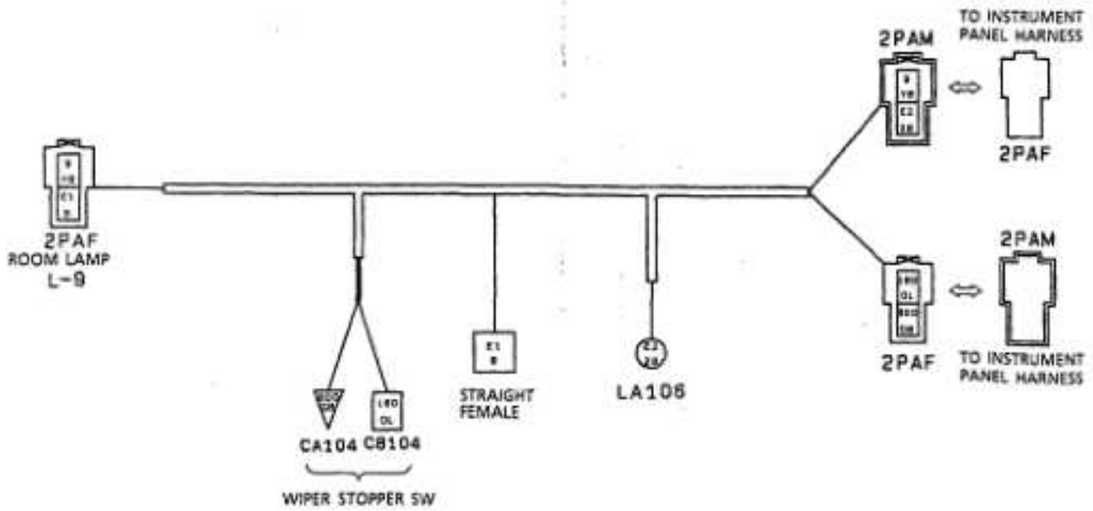


Fig.32

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5. COUNTERWEIGHT

5.1 PREPARATION FOR REMOVAL

(1) Removing bonnet assy.
Remove bonnet on engine. (See Fig. 6-7.)

(2) Remove cover (3) (See GUARD Fig. 6-8.)

(3) Preparing slinging jig
Remove C7 plate, and attach weight slinging jig (See Chapter : Tools.) to counterweight.
: 36mm



Fig. 5-1 Lifting up counter weight

5.2 REMOVAL

(1) Lifting up counterweight temporarily
Hook wire rope to slinging jig, and lift it and stretch wire rope to the degree where it is providing no slack temporarily.
Weight of counterweight ;
Approx. 820kg (1800 lb)
Wire more than Ø10 (0.394") ;
1.5m (4ft 11in)×2 pcs.

(2) Removing counterweight
1) Remove 1 capscrew (C1) M20×70.

2) Remove 2 capscrews (C3) M20×130.
: 30mm

3) Remove shim.

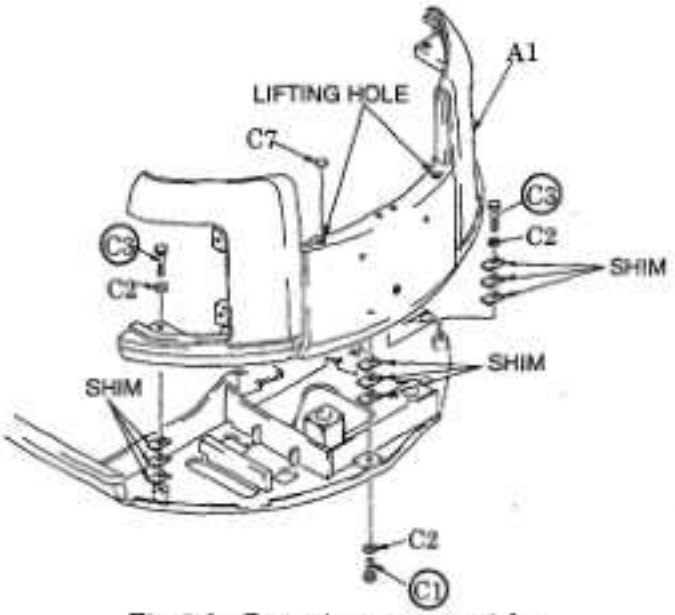


Fig. 5-2 Removing counterweight

5.3 INSTALLATION

(1) Install counterweight in the reverse procedure of removing.

(2) Install shim as it was.

(3) Slinging counterweight
Check that the attaching 3 bolts can be screwed in by hand.

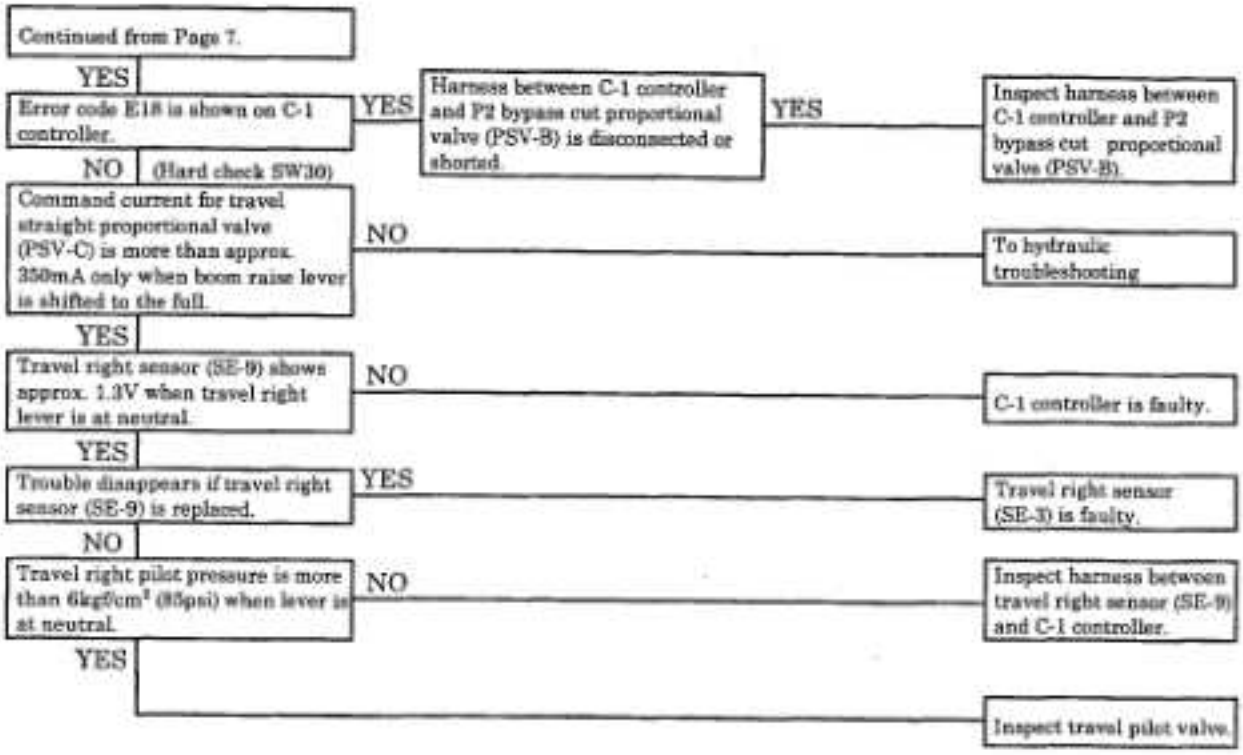
(4) Apply Loctite #242 on capscrews (C1, C3), and tighten them with washers (C2).
: 30mm
Tightening torque : 57kgf·m (410 lbf·ft)

(5) Remove slinging tools, and attach plates (C7).

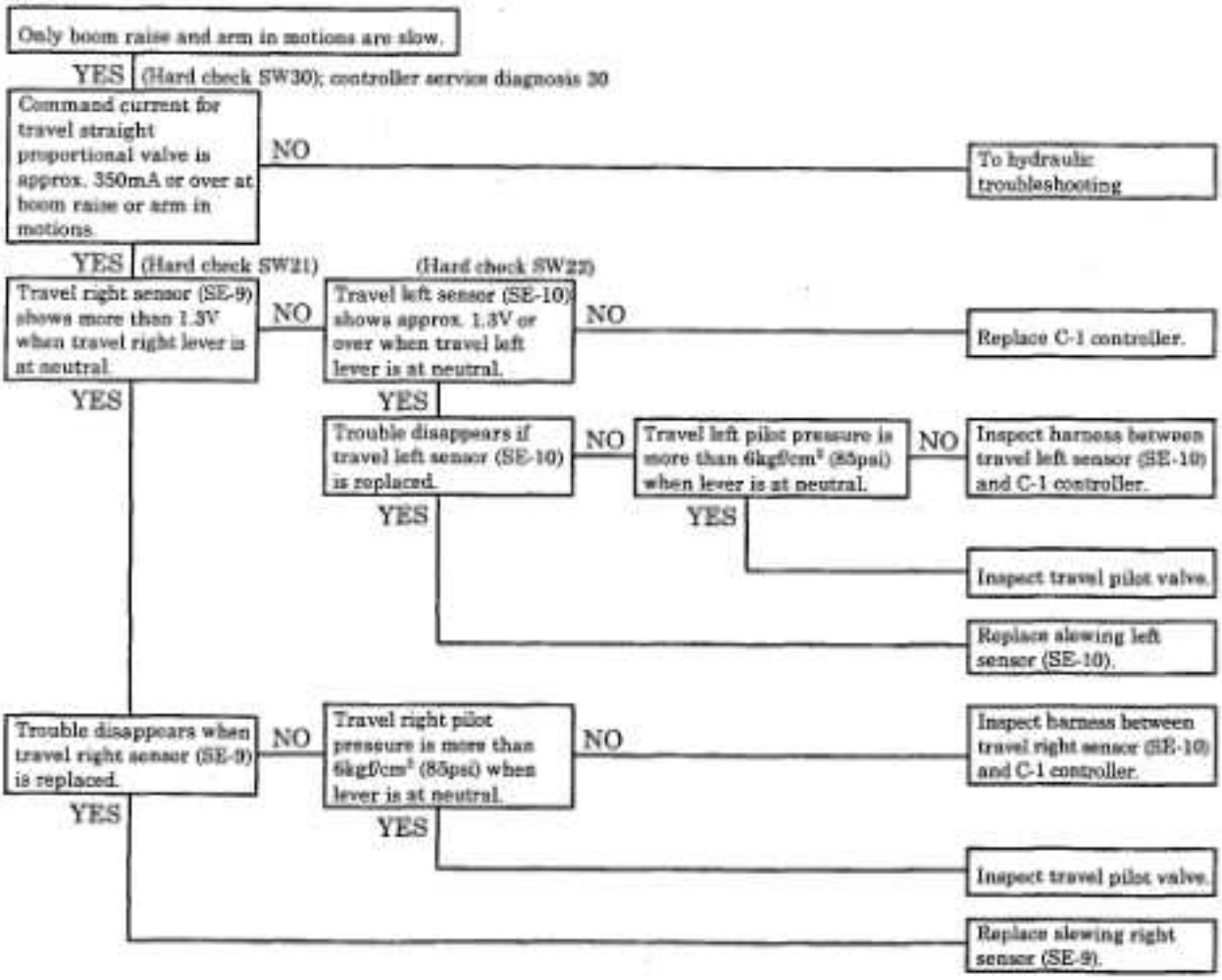


Fig. 5-3 Attaching bolts for counterweight

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(2)-3



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WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
1	RY	AVSS1.25sq	CN-15F		CN-13F	FUSE BOX → RECRATRO CONTROLLER
2A	WY	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
2B	WY	AVSS0.75sq	CN-26F		CN-29F	WIPER MOTOR → 15PAF-J/B
2C	WY	AVSS0.75sq	CN-25F		CN-29F	WINDOW WASHER MOTOR → 15PAF-J/B
2D	WY	AVSS0.75sq	CN-22F		CN-29F	TRAVEL ALARM RELAY → 15PAF-J/B
3	RL	AVSS0.75sq	CN-14M		CN-40M	FUSE BOX → CIGARETTE LIGHTER
4A	OL	AVSS0.75sq	CN-14M		CN-36M	FUSE BOX → J/C-ORANGE
4B	OL	AVSS0.75sq	CN-40M		CN-36M	CONVERTER → J/C-ORANGE
4C	OL	AVSS0.75sq	CN-3M		CN-36M	TUNER → J/C-ORANGE
5A	WG	AVSS0.75sq	CN-14M		CN-36F	FUSE BOX → J/C-ORANGE
5B	WG	AVSS0.75sq	CN-23F		CN-36F	HORN RELAY → J/C-ORANGE
5C	WG	AVSS0.75sq	CN-23F		CN-36F	HORN RELAY → J/C-ORANGE
8	WV	AVSS1.25sq	CN-14M		CN-10F	FUSE BOX → FUEL PUMP
9A	YB	AVSS0.75sq	CN-14M		CN-28F	FUSE BOX → 15PAF-J/B
9B	YB	AVSS0.75sq	CN-40M		CN-29F	CONVERTER → 15PAF-J/B
9C	YB	AVSS0.75sq	CN-42F		CN-29F	ROOM LAMP → 15PAF-J/B
9D	YB	AVSS0.75sq	CN-10F		CN-29F	ENGINE ROOM LIGHT → 15PAF-J/B
9E	YB	AVSS0.75sq	CN-3M		CN-29F	TUNER → 15PAF-J/B
10	WV	AVSS1.25sq	CN-15F		CN-4M	FUSE BOX → KEY SW.
11A	O	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
11B	O	AVSS0.75sq	CN-22F		CN-29F	TRAVEL ALARM RELAY → 15PAF-J/B
11C	O	AVSS0.75sq	CN-10F		CN-29F	FUEL PUMP → 15PAF-J/B
12	RG	AVSS0.75sq	CN-14M		CN-47F	FUSE BOX → SWING FLASHER RELAY
13A	W	AVSS0.75sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
13B	W	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
13C	W	AVSS0.75sq	CN-4M		CN-29F	ATS TEMP. LAMP → 15PAF-J/B
14A	RB	AVSS1.25sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
14B	RB	AVSS1.25sq	CN-26F		CN-29F	WIPER MOTOR → 15PAF-J/B
14C	RB	AVSS0.75sq	CN-25F		CN-29F	WINDOW WASHER MOTOR → 15PAF-J/B
14E	RB	AVSS0.75sq	CN-36F		CN-29F	J/C-ORANGE → 15PAF-J/B
14F	RB	AVSS0.75sq	CN-36F		CN-21F	J/C-ORANGE → WIPER MOTOR
14H	RB	AVSS0.75sq	CN-36F		CN-40M	J/C-ORANGE → ROOF WIPER SW.
14J	RB	AVSS0.75sq	CN-36F		CN-41F	J/C-ORANGE → ROOF WIPER MOTOR
15A	WB	AVSS0.75sq	CN-14M		CN-29F	SWING SELECT RELAY → 15PAF-J/B
15B	WB	AVSS0.75sq	CN-46F		CN-29F	SWING SELECT RELAY → 15PAF-J/B
15C	WB	AVSS0.75sq	CN-3M		CN-29F	SOLENOID → 15PAF-J/B
15D	WB	AVSS0.75sq	CN-10F		CN-29F	SWING SELECT SOL. → 15PAF-J/B
15E	WB	AVSS0.75sq	CN-45F		CN-29F	SW. SELECT RELAY → 15PAF-J/B
16A	RW	AVSS1.25sq	CN-14M		CN-29F	FUSE BOX → 15PAF-J/B
16B	RW	AVSS1.25sq	CN-24F		CN-29F	WORK LIGHT RELAY → 15PAF-J/B
16C	RW	AVSS0.75sq	CN-24F		CN-29F	WORK LIGHT RELAY → 15PAF-J/B
17A	WL	AVSS1.25sq	CN-29F		CN-14M	15PAF-J/B → FUSE BOX
17B	WL	AVSS1.25sq	CN-29F		CN-44F	15PAF-J/B → OPT. WORK LIGHT RELAY 1
17D	WL	AVSS0.75sq	CN-29F	DOUBLE SPLICE	CN-44F	15PAF-J/B → OPT. WORK LIGHT RELAY 2
17F	WL	AVSS0.75sq	CN-4M		CN-44F	ROTARY LIGHT SW. → OPT. WORK LIGHT RELAY 3
18	WG	AVSS1.25sq	CN-15F		CN-3M	FUSE BOX → AIR CONDITIONER AMP.
19	RL	AVSS0.75sq	CN-14M		CN-3M	FUSE BOX → TO A/C
20	WR	AVSS1.25sq	CN-14M		CN-31F	FUSE BOX → DEICING DOORE
50	L	AVSS1.25sq	CN-15F		CN-4M	FUSE BOX → KEY SW.
51	W	MVVS1.25sq 2CORES SHIELD	CN-10F		CN-15F	FUSE BOX → BATTERY RELAY
E	B		CN-10F		CN-13F	EARTH → RECRATRO CONTROLLER
SH2	Gr		CN-10F		CN-13F&E&OPEN	
52	R	AVS5sq	CN-15F		CN-11M	FUSE BOX → BATTERY RELAY
53	Y	AVS5sq	CN-15F		CN-11M	FUSE BOX → BATTERY RELAY

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
60A	GrL	AVSS0.75sq	CN-1F		CN-29F	RECRATRO CONTROLLER → 15PAF-J/B
60B	GrL	AVSS0.75sq	CN-4M		CN-29F	KEY SW. → 15PAF-J/B
60C	GrL	AVSS0.75sq	CN-33F		CN-29F	BATTERY RELAY → 15PAF-J/B
60D	GrL	AVSS0.75sq	CN-32F		CN-29F	DIODE → 15PAF-J/B
61A	BrY	AVSS0.75sq	CN-40M		CN-29F	RECRATRO CONTROLLER → 15PAF-J/B
61B	BrY	AVSS0.75sq	CN-32F		CN-29F	KEY SW → 15PAF-J/B
61C	BrY	AVSS0.75sq	CN-33F		CN-29F	DIODE → 15PAF-J/B
61D	BrY	AVSS0.75sq	CN-4M		CN-29F	DIODE → 15PAF-J/B
62A	GrB	AVSS0.75sq	CN-33F		CN-29F	DIODE → 15PAF-J/B
62B	GrB	AVSS0.75sq	CN-4M		CN-29F	DIODE → 15PAF-J/B
62C	GrB	AVSS0.75sq	CN-10F		CN-29F	DIODE → 15PAF-J/B
63	WY	AVSS0.75sq	CN-10F		CN-4M	SAFETY RELAY → KEY SW.
64	GW	AVSS0.75sq	CN-28F		CN-10F	RESISTOR → ALTERNATOR
70A	G	AVSS0.75sq	CN-33F		CN-36F	DIODE → J/C-ORANGE
70B	G	AVSS0.75sq	CN-28F		CN-36F	RESISTOR → J/C-ORANGE
70C	G	AVSS0.75sq	CN-10F		CN-36F	BATTERY RELAY → J/C-ORANGE
80	LY	AVSS0.75sq	CN-21F		CN-26F	WIPER MOTOR RELAY → WIPER MOTOR
81	BrB	AVSS0.75sq	CN-21F		CN-26F	WIPER MOTOR RELAY → WIPER MOTOR
82	GO	AVSS0.75sq	CN-10F		CN-25F	WASHER MOTOR → WASHER MOTOR RELAY
83	WL	AVSS0.75sq	CN-10F		CN-23F	HORN → HORN RELAY
84	WB	AVSS0.75sq	CN-23F		CN-4M	HORN RELAY → HORN SW.
85A	WB	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
85B	WB	AVSS1.25sq	CN-24F		CN-29F	ROOM LIGHT RELAY → 15PAF-J/B
85C	WB	AVSS1.25sq	CN-10F		CN-29F	ROOM WORKING LIGHT → 15PAF-J/B
85D	WB	AVSS0.75sq	CN-4M		CN-29F	SW. ASSY → 15PAF-J/B
85E	WB	AVSS0.75sq	CN-3M		CN-29F	AIR CONDITIONER AMP. → 15PAF-J/B
86	OW	AVSS0.75sq	CN-91F		CN-251M	TIMER → OPERATING LEVER LOCK SOL.
87A	WL	AVSS0.75sq	CN-91F	DOUBLE SPLICE	CN-3M	TIMER → LEVER LOCK SW.
87B	WL	AVSS0.75sq	CN-91F		CN-13F	TIMER → RECRATRO CONTROLLER
92	BP	AVSS0.75sq	CN-3M		CN-10F	AIR CONDITIONER AMP. → A/C RECEIVER DRIER
94	G	AVSS0.75sq	CN-251M		CN-32F	DOUBLE SINGLE SELECT SOL. → DIODE
96	WG	AVSS0.75sq	CN-40M		CN-3M	CONVERTER → SOCKET
97	YV	AVSS0.75sq	CN-40M		CN-3M	CONVERTER → SOCKET
98	LB	AVSS0.75sq	CN-40M		CN-41F	ROOF WIPER SW. → ROOF WIPER MOTOR
99	LW	AVSS0.75sq	CN-40M		CN-41F	ROOF WIPER SW. → ROOF WIPER MOTOR
100	LY	AVSS0.75sq	CN-3M		CN-251M	DOUBLE-SINGLE SELECT SW. → DOUBLE-SINGLE SELECT SOL.
101	LW	AVSS0.75sq	CN-3M		CN-92F	TUNER → SPEAKER LEFT
102	Br	AVSS0.75sq	CN-3M		CN-92F	TUNER → SPEAKER LEFT
103	LR	AVSS0.75sq	CN-3M		CN-93F	TUNER → SPEAKER RIGHT
104	OB	AVSS0.75sq	CN-3M		CN-93F	TUNER → SPEAKER RIGHT
179	L	AVSS1.25sq	CN-44F		F-4	OPT. WORK LIGHT RELAY → CAB WORKING LIGHT
180	OL	AVSS0.75sq	CN-28F		CN-43M	WIPER MOTOR RELAY → WIPER MOTOR INTERLOCK SW.
181	R	MVVS0.75sq 4CORES SHIELD	CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
182	G		CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
183	W		CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
184	B		CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
SH4	Gr		CN-3M		CN-3M	A/C SW PANEL → AIR CONDITIONER AMP.
185	LY	AVSS0.75sq	CN-44F		CN-4M	OPT. WORK LIGHT RELAY → OPT. WORK LIGHT SW.
188	PG	AVSS0.75sq	CN-10F		CN-22F	TRAVEL ALARM RELAY → TRAVEL ALARM RELAY
189	YR	AVSS0.75sq	CN-4M		F-6	ROTARY LIGHT SW. → ROTARY LIGHT
209	LY	AVSS0.75sq	CN-10F		CN-47F	SWING FLASHER RIGHT → SWING FLASHER RELAY
210	Le	AVSS0.75sq	CN-10F		CN-47F	SWING FLASHER LEFT → SWING FLASHER RELAY
211	RW	AVSS0.75sq	CN-45F		CN-3M	SW. SELECT RELAY → SWING SELECT SW.
212A	LG	AVSS0.75sq	CN-10F	DOUBLE SPLICE	CN-46F	SWING SELECT SOL. → SWING SELECT RELAY
212B	LG	AVSS0.75sq	CN-20F	DOUBLE SPLICE	CN-46F	SWING FLASHER SELECT RELAY → SWING SELECT RELAY
212C	LG	AVSS0.75sq	CN-20F		CN-49F	SWING FLASHER SELECT RELAY → SWING ADVANCE RELAY

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
213	WG	AVSS0.75sq	CN-20F		CN-3M	SWING PEARMON SELECT RELAY → SWING SELECT SW.
214A	OW	AVSS0.75sq	CN-45F	DOUBLE SPLICE	CN-10F	SW. SELECT RELAY → SWING SELECT SOL.
214B	OW	AVSS0.75sq	CN-45F		CN-49F	SW. SELECT RELAY → SWING ADVANCE RELAY
215A	LY	AVSS0.75sq	CN-46F	DOUBLE SPLICE	CN-3M	SW. SELECT RELAY → SWING SELECT SW.
215B	LY	AVSS0.75sq	CN-46F		CN-187F	SWING SELECT RELAY → DIODE
216	LR	AVSS0.75sq	CN-49F		CN-187F	SWING EMERGENCY RELAY → DIODE
500	LeR	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BUCKET DIGGING → RECRATRO CONTROLLER
501	LeW	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR BUCKET DUMP → RECRATRO CONTROLLER
502	LeY	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BOOM RAISING → RECRATRO CONTROLLER
503	LO	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR BOOM LOWERING → RECRATRO CONTROLLER
504	PG	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR ARM IN → RECRATRO CONTROLLER
505	PL	AVSS0.75sq	CN-10F		CN-2F	PRESS. SENSOR ARM OUT → RECRATRO CONTROLLER
506	V	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR SWING RIGHT → RECRATRO CONTROLLER
507	VG	AVSS0.75sq	CN-10F		CN-12F	PRESS. SENSOR SWING LEFT → RECRATRO CONTROLLER
508	VY	AVSS0.75sq	CN-251M		CN-12F	PRESS. SENSOR TRAVEL RIGHT → RECRATRO CONTROLLER
509	Sb	AVSS0.75sq	CN-251M		CN-13F	PRESS. SENSOR TRAVEL LEFT → RECRATRO CONTROLLER
530	P	AVSS0.75sq	CN-4M		CN-13F	ACCEL POTENTIO → RECRATRO CONTROLLER
534	B	MVVS0.5sq 2CORES SHIELD	CN-10F		CN-13F	ENG. RPM SENSOR → RECRATRO CONTROLLER
535	W		CN-10F		CN-13F	ENG. RPM SENSOR → RECRATRO CONTROLLER
SH3	Gr		CN-10F		CN-13F	ENG. RPM SENSOR → RECRATRO CONTROLLER
536	BrR	AVSS0.75sq	CN-10F		CN-40M	FUEL SENSOR → CLUSTER GAUGE
537	YR	AVSS0.75sq	CN-10F		CN-40M	OVERLOAD THERMO SENSOR → CLUSTER GAUGE
550A	O	AVSS0.75sq	CN-1F		CN-29F	RECRATRO CONTROLLER → 15PAF-J/B
550B	O	AVSS0.75sq	CN-40M		CN-29F	CLUSTER GAUGE → 15PAF-J/B
550C	O	AVSS0.75sq	CN-10F		CN-29F	ENG. OIL PRESS → 15PAF-J/B
551	BrL	AVSS0.75sq	CN-10F		CN-40M	AIR FILTER SW. → CLUSTER GAUGE
552	GB	AVSS0.75sq	CN-10F		CN-40M	E/G WATER TEMP → CLUSTER GAUGE
553	BrB	AVSS0.75sq	CN-10F		CN-40M	FUEL SENSOR → CLUSTER GAUGE
555	OW	AVSS0.75sq	CN-4M		CN-10F	OVERLOAD INDICATE SW. → OVER LOAD SW.
556A	LO	AVSS0.75sq	CN-32F		CN-36F	DIODE → J/C-ORANGE
556B	LO	AVSS0.75sq	CN-36M		CN-36F	MAINTENANCE CONNECTOR → J/C-ORANGE
556C	LO	AVSS0.75sq	CN-2F		CN-36F	RECRATRO CONTROLLER → J/C-ORANGE
557	GrB	AVSS0.75sq	CN-4M		CN-40M	STEPPING MOTOR → CLUSTER GAUGE
559	PL	AVSS0.75sq	CN-251M		CN-13F	TWO-SPEED SELECT SW. → RECRATRO CONTROLLER
560	V	AVSS0.75sq	CN-10F		CN-13F	STEPPING MOTOR → RECRATRO CONTROLLER
561	Le	AVSS0.75sq	CN-40M		CN-27F	CLUSTER GAUGE → SWING PARKING RELEASE SW.
562	WY	AVSS0.75sq	CN-1F		CN-4M	RECRATRO CONTROLLER → ALARM STOP SW.
563	O	AVSS0.75sq	CN-4M		CN-251M	HYD. TEMP. LAMP → HYD. TEMP. SW.
564	Gr	AVSS0.75sq	CN-1F		CN-20F	RECRATRO CONTROLLER → SWING FLASHER SELECT RELAY
603	LeR	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → RECRATRO CONTROLLER
604	LG	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → RECRATRO CONTROLLER
605	VG	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → RECRATRO CONTROLLER
606	BrW	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → RECRATRO CONTROLLER
607	GW	AVSS0.75sq	CN-4M		CN-1F	SW. ASSY → RECRATRO CONTROLLER
651A	WR	AVSS0.75sq	CN-10F		CN-36F	SAFETY RELAY → J/C-ORANGE
651B	WR	AVSS0.75sq	CN-40M		CN-36F	CLUSTER GAUGE → J/C-ORANGE
651C	WR	AVSS0.75sq	CN-40M		CN-36F	HOUR METER → J/C-ORANGE

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