CRAWLER EXCAVATOR

SERVICE MANUAL

R18-9

HYUNDAI

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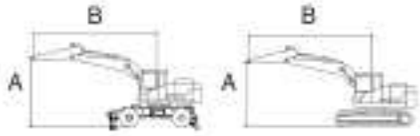
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
R18-9	Canopy	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		1800	960	60	230	-	Up	-	-	-

· : Rating over-front · : Rating over-side or 360 degree

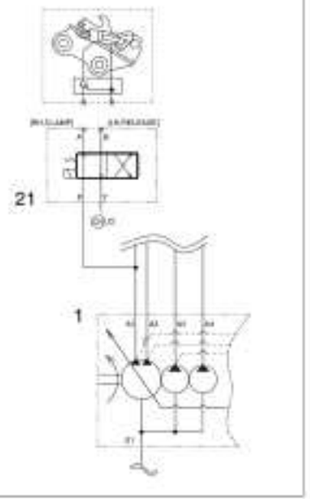


Lift-point height (A)		Lift-point radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
3.0 m	kg							*400	*400	2.20
(9.8 ft)	lb							*880	*880	(7.2)
2.5 m	kg			*370	360			320	300	2.76
(8.2 ft)	lb			*820	790			710	660	(9.1)
2.0 m	kg			380	360	280	270	270	250	3.10
(6.6 ft)	lb			840	790	620	600	600	550	(10.2)
1.5 m	kg	530	490	370	350	280	260	240	230	3.30
(4.9 ft)	lb	1170	1080	820	770	620	570	530	510	(10.8)
1.0 m	kg	500	460	360	340	270	260	230	210	3.39
(3.3 ft)	lb	1100	1010	790	750	600	570	510	460	(11.1)
0.5 m	kg	480	450	350	330	270	250	220	210	3.39
(1.6 ft)	lb	1060	990	770	730	600	550	490	460	(11.1)
Ground	kg	470	440	340	320	260	250	230	220	3.29
Line	lb	1040	970	750	710	570	550	510	490	(10.8)
-0.5 m	kg	470	440	340	320	260	250	250	240	3.08
(-1.6 ft)	lb	1040	970	750	710	570	550	550	530	(10.1)
-1.0 m	kg	480	440	340	320			300	280	2.74
(-3.3 ft)	lb	1060	970	750	710			660	620	(9.0)
-1.5 m	kg	490	450					440	410	2.15
(-4.9 ft)	lb	1080	990					970	900	(7.1)

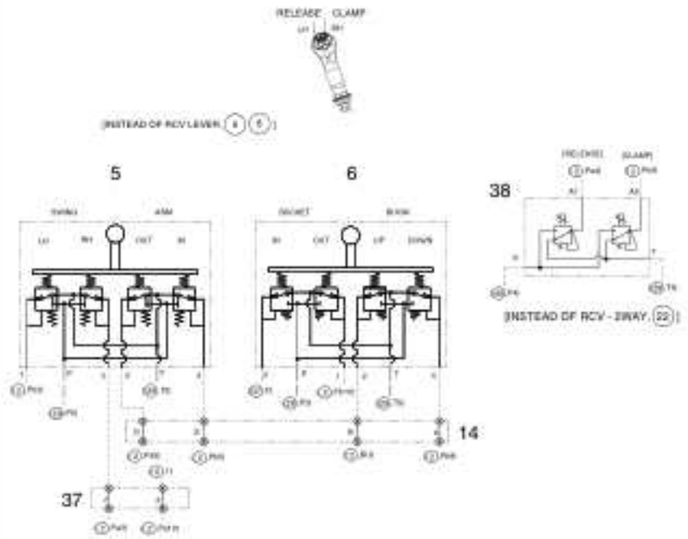
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HYDRAULIC CIRCUIT (2/2)

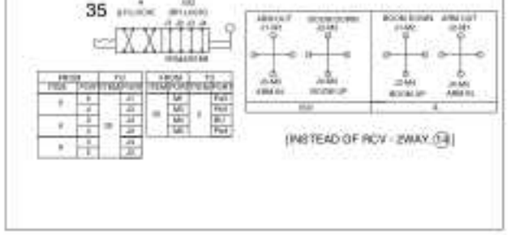
<QUICK COUPLER,HQ01>



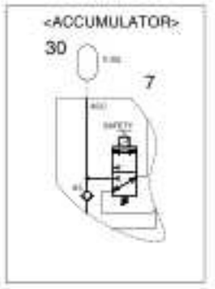
<2WAY_PROPORTIONAL RCV>



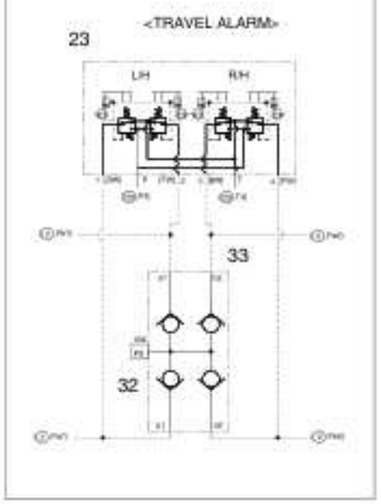
<PATTERN CHANGE>



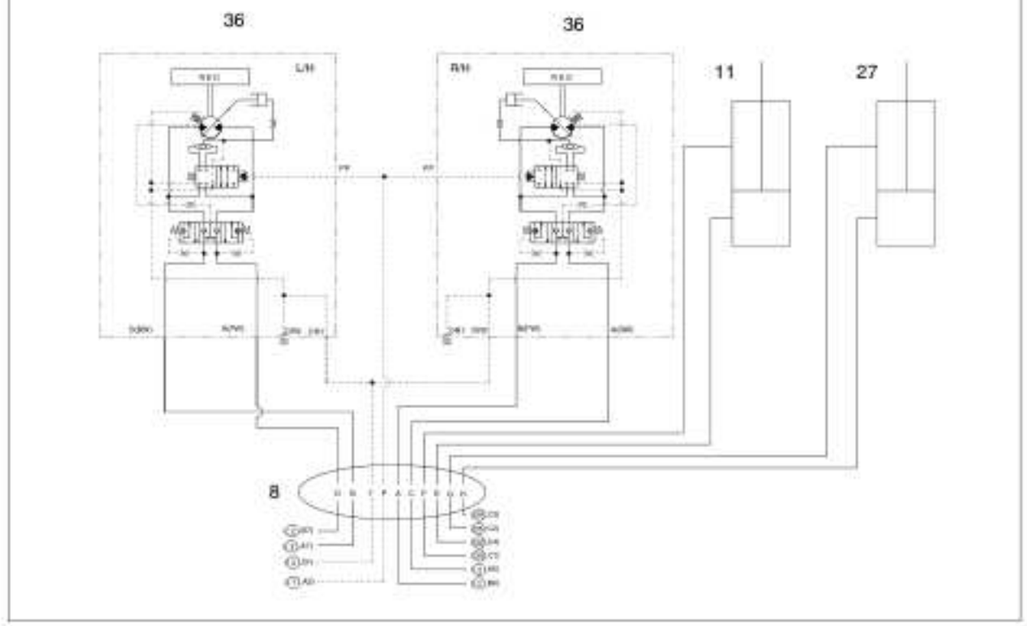
<ACCUMULATOR>



<TRAVEL ALARM>



<TRAVEL MOTOR WITH PARKING BRAKE>



1 MAIN PUMP
5 RCV LEVER-RH
6 RCV LEVER-LH
7 SOLENOID VALVE
8 TURNING JOINT
11 DOZER CYLINDER
14 TERMINAL ASSY
21 SOLENOID VALVE
23 3 WAY VALVE
27 FRAME EXTENSION CYL
30 ACCUMULSTOR
31 LEVER PATTERN VALVE
32 PRESSURE SWITCH
33 SHUTTLE VALVE
36 TRAVEL MOTOR
38 2 EPPR VALVE

30MJ-75000-2

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GROUP 1 BEFORE TROUBLESHOOTING

1. INTRODUCTION

When a trouble is occurred in the machine, this section will help an operator to maintain the machine with easy.

The trouble of machine is parted Hydraulic & Mechanical system and Electrical system.

At each system part, an operator can check the machine according to the troubleshooting process diagram.



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(4) Fit the O-ring (214) into the plug (221).



(5) Fit the seal (213) into the plug (211).

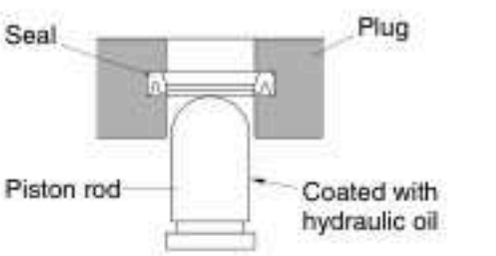
- Fit the lip of the seal (213) as shown right.



(6) Fit the push-rod (212) into the plug (211).

- Apply hydraulic oil to the surface of the push rod.



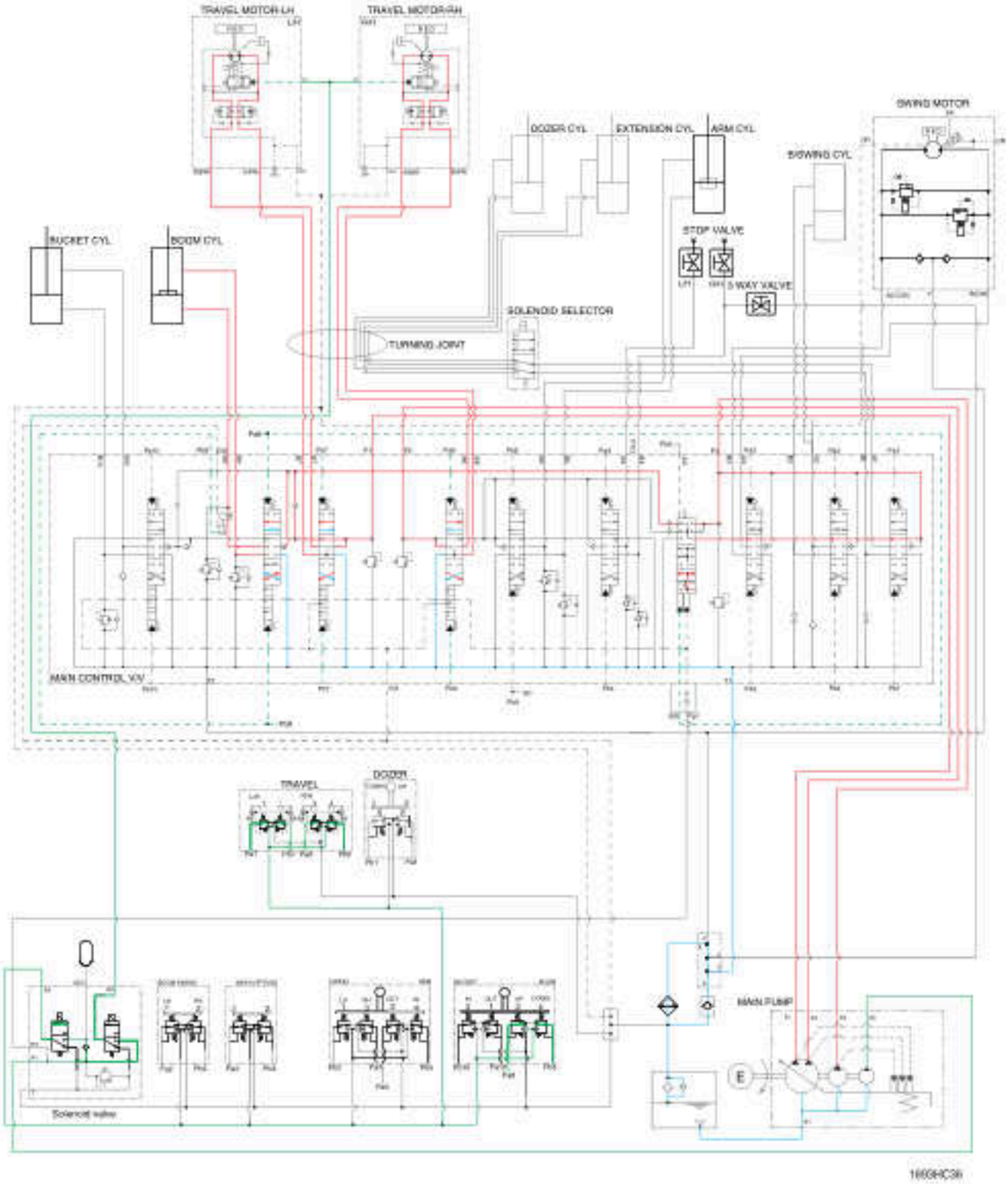


Push rod, plug & seals



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7. COMBINED BOOM AND TRAVEL OPERATION



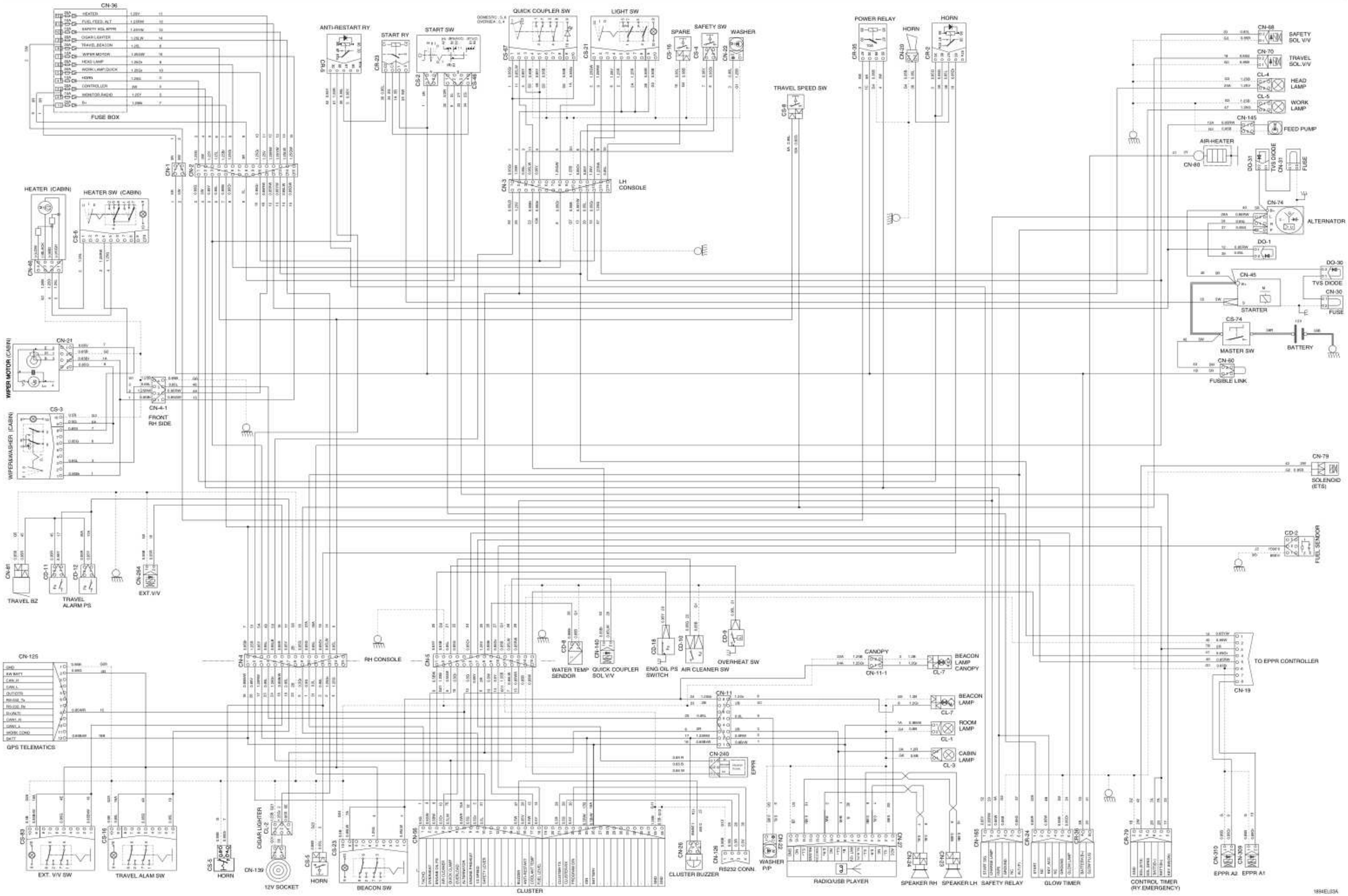
When the boom and travel functions are operated, simultaneously the boom spools and travel spools in the main control valve are moved to the functional position by the pilot oil pressure from the remote control valve.

The oil from the A1 and A2 pumps flows into the travel motors through travel RH and travel LH spools.

The oil from the A3 pump flows into the boom cylinders through boom spool via the travel selector spool. The boom is operated and the machine travels straight.

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ELECTRICAL CIRCUIT (machine serial No. : #0380~)



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