CRAWLER EXCAVATOR

SERVICE MANUAL

R320LC-3

HYUNDAI

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4. WEIGHT

1) R320-3, R320LC-3

Item	R320-3		R320LC-3	
	kg	lb	kg	lb
Upperstructure assembly	12750	28110	←	
Main frame weld assembly	2720	6000	←	
Engine assembly	610	1340	←	
Main pump assembly	190	420	←	
Main control valve assembly	130	290	←	
Swing motor assembly	320	710	←	
Hydraulic oil tank assembly	280	620	←	
Fuel tank assembly	160	350	←	
Counterweight	5800	12790	←	
Cab assembly	275	610	←	
Lower chassis assembly	11110	24490	12160	26810
Track frame weld assembly	4050	8930	4570	10080
Swing bearing	410	900	←	
Travel motor assembly	410	900	←	
Turning joint	50	110	←	
Track recoil spring and idler	315	690	←	
Idler	205	450	←	
Carrier roller	35	80	←	
Track roller	50	110	←	
Track-chain assembly (600mm standard triple grouser shoe)	1790	3950	1900	4190
Front attachment assembly (6.45m boom, 3.20m arm, 1.44m³ PCSA heaped bucket)	6290	13870	←	
6.45m boom assembly	2935	6470	←	
3.20m arm assembly	1710	3770	←	
1.44m³ PCSA heaped bucket	1055	2330	←	
Boom cylinder assembly	590	1300	←	
Arm cylinder assembly	425	940	←	
Bucket cylinder assembly	270	600	←	
Bucket control link assembly	390	860	←	

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2) ROBEX 320NLC-3

Item	R320NLC-3	
	kg	lb
Upperstructure assembly	12750	28110
Main frame weld assembly	2720	6000
Engine assembly	610	1340
Main pump assembly	190	420
Main control valve assembly	130	290
Swing motor assembly	320	710
Hydraulic oil tank assembly	280	620
Fuel tank assembly	160	350
Counterweight	5800	12790
Cab assembly	275	610
Lower chassis assembly	11960	26370
Track frame weld assembly	4400	9700
Swing bearing	410	900
Travel motor assembly	410	900
Turning joint	50	110
Track recoil spring and idler	315	700
Idler	205	450
Carrier roller	35	80
Track roller	50	110
Track-chain assembly (600mm standard triple grouser shoe)	1900	4190
Front attachment assembly (6.45m boom, 3.20m arm, 1.44m³ PCSA heaped bucket)	6290	13870
6.45m boom assembly	2935	6470
3.20m arm assembly	1710	3770
1.44m³ PCSA heaped bucket	1055	2330
Boom cylinder assembly	590	1300
Arm cylinder assembly	425	940
Bucket cylinder assembly	270	600
Bucket control link assembly	390	860

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3) ROBEX 320NLC-3

(1) 6.15m(20' 2") boom, 2.2m(7' 3") arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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

Load point height		Load radius								At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
												m(ft)
7.5m (25ft)	kg lb									*5230 *11530	4380 9660	8.02 (26.3)
6.0m (20ft)	kg lb					*6200 *13670	*6200 *13670			*5280 *11640	3470 7650	8.91 (29.2)
4.5m (15ft)	kg lb			*9040 *19930	*9040 *19930	*7100 *15650	6800 14990	*6210 *13690	4590 10120	*5390 *11880	3000 6610	9.43 (30.9)
3.0m (10ft)	kg lb			*11640 *25660	9800 21610	*8280 *18250	6330 13960	*6760 *14900	4380 9660	5370 11840	2790 6150	9.65 (31.7)
1.5m (5ft)	kg lb			*13440 *29630	9070 20000	*9320 *20550	5920 13050	*7310 *16120	4160 9170	5360 11820	2760 6080	9.58 (31.4)
Ground Line	kg lb			*13940 *30730	8820 19440	*9910 *21850	5690 12540	*7640 *16840	4020 8860	5680 12520	2930 6460	9.23 (30.3)
-1.5m (-5ft)	kg lb	*15520 *34220	*15520 *34220	*13530 *29830	8830 19470	*9890 *21800	5620 12390	*7510 *16560	4000 8820	*5960 *13140	3390 7470	8.56 (28.1)
-3.0m (-10ft)	kg lb	*16880 *37210	*16880 *37210	*12260 *27030	9010 19860	*9040 *19930	5730 12630			*5750 *12680	4410 9720	7.44 (24.4)
-4.5m (-15ft)	kg lb			*9500 *20940	9430 20790							

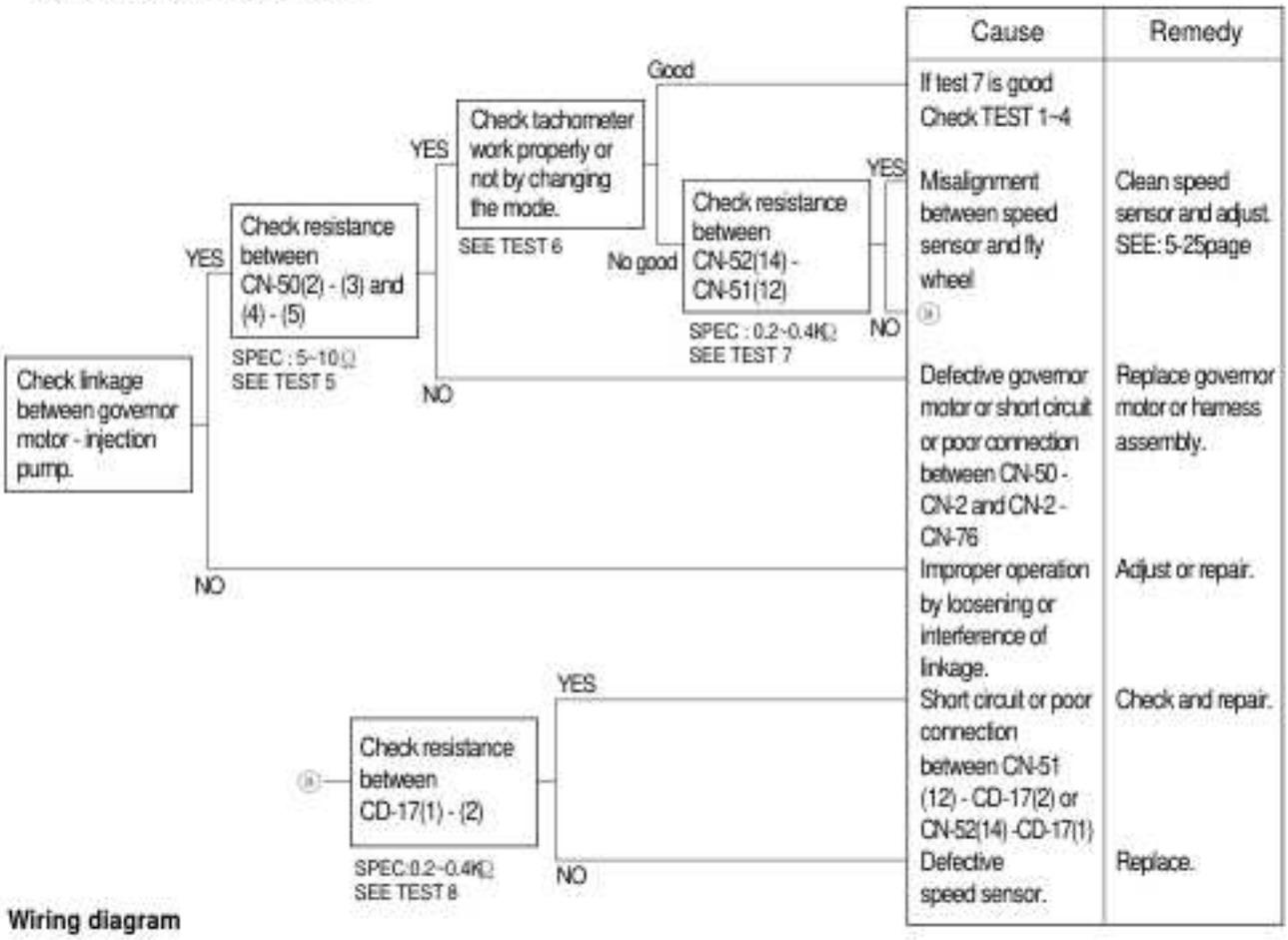
Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. *indicates load limited by hydraulic capacity.

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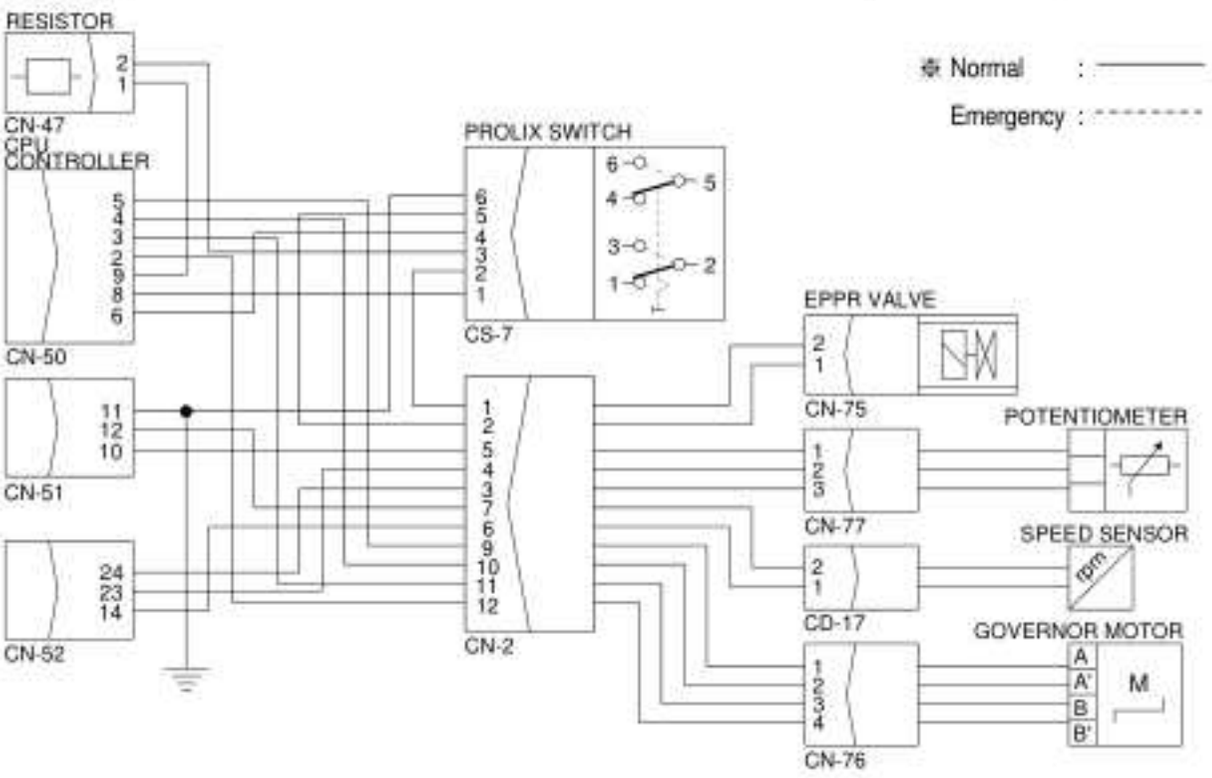
2. ENGINE SPEED IS SLOW AT ALL MODE

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE

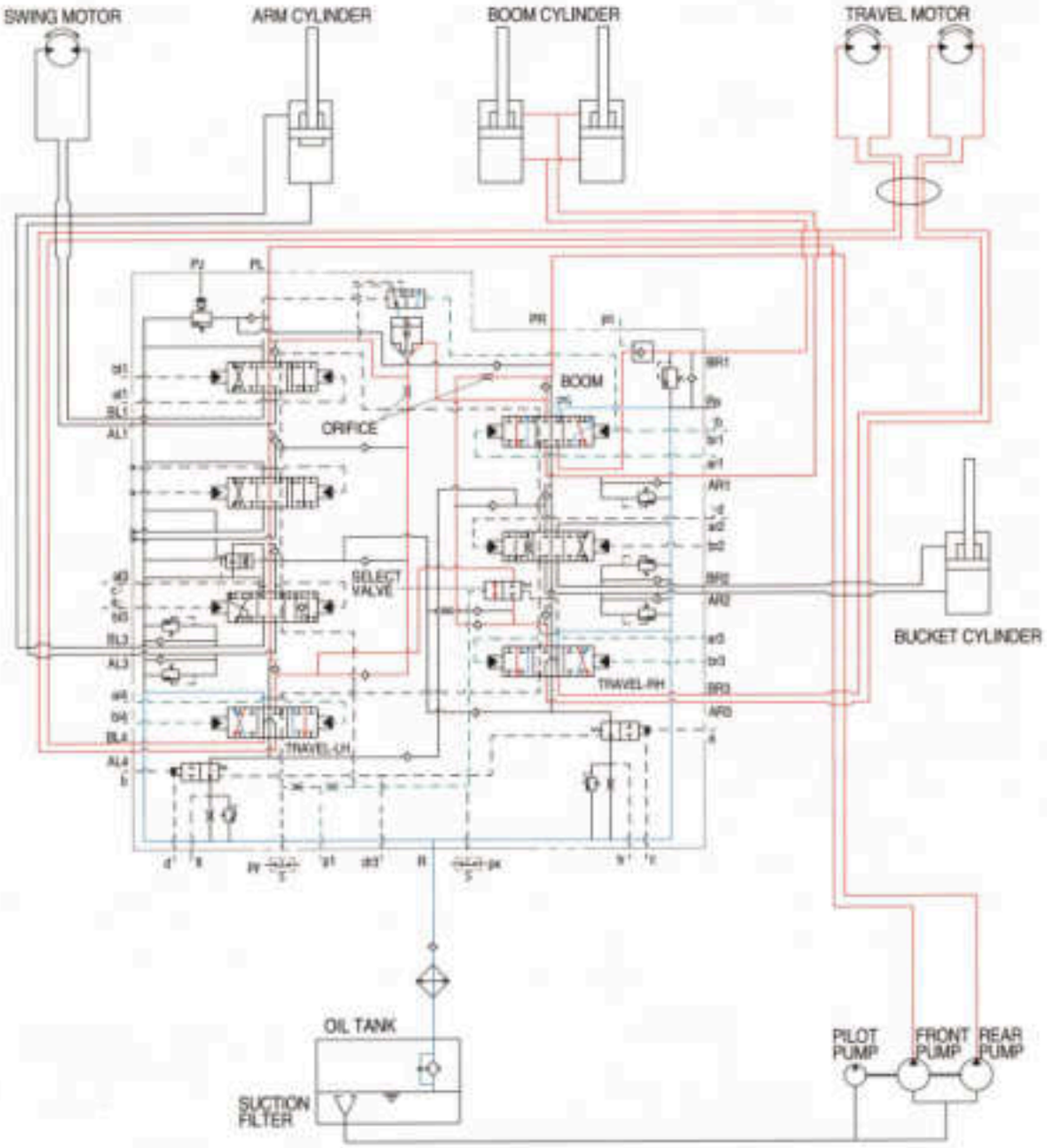


Wiring diagram



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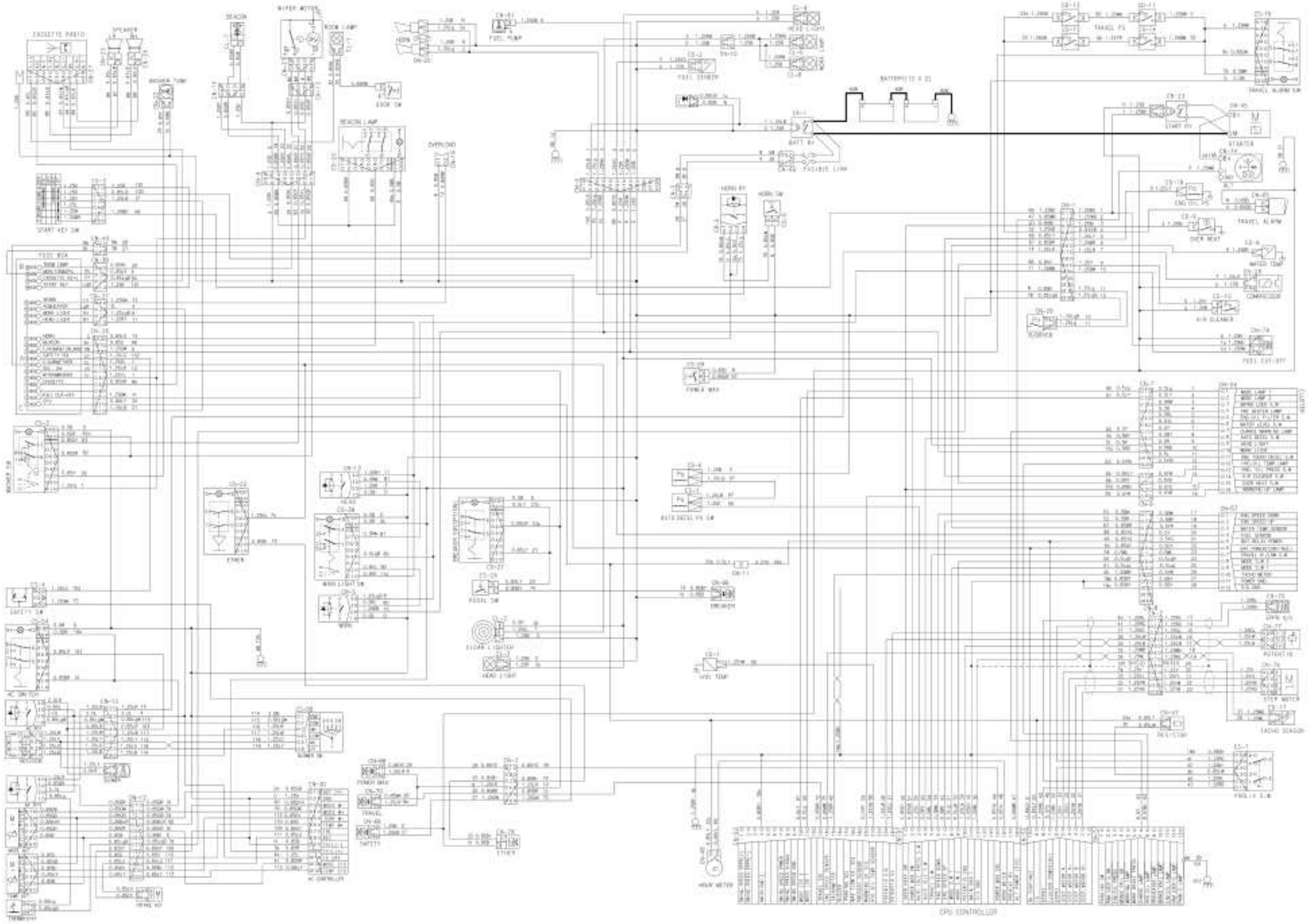
7. COMBINED BOOM AND TRAVEL OPERATION



When the boom and travel (RH, LH) functions are operated, the boom and travel (RH, LH) spools and the select valve changed. The oil flows from rear pump through the travel (RH, LH) section of the control valve to the right and left travel motor.

And the oil flows from rear pump through boom section of the right control valve to the boom cylinder. Because of check valve the pressure in the travel circuit can be high while the boom pressure is low. When the travel circuit pressure drops lower than boom pressure, as when traveling downhill, boom priority and smoothness are maintained because of the orifice. In either case, the machine will continue to travel straight.

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