CRAWLER EXCAVATOR

SERVICE MANUAL

HX300SG

HYUNDAI

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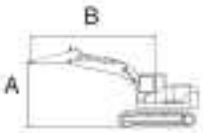
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX300SG	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		6250	2500	5200	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg					*6510	*6510			*6350	*6350	6.74
	lb					*14350	*14350			*14000	*14000	(22.1)
6.0 m (19.7 ft)	kg					*6870	*6870	*6670	5440	*6040	5140	7.74
	lb					*15150	*15150	*14700	11990	*13320	11330	(25.4)
4.5 m (14.8 ft)	kg			*9930	*9930	*7880	7490	*6990	5310	*6030	4450	8.34
	lb			*21890	*21890	*17370	16510	*15410	11710	*13290	9810	(27.4)
3.0 m (9.8 ft)	kg			*12770	10610	*9150	7060	*7600	5110	*6240	4110	8.64
	lb			*28150	23390	*20170	15560	*16760	11270	*13760	9060	(28.3)
1.5 m (4.9 ft)	kg					*10270	6710	7850	4920	6320	4000	8.67
	lb					*22640	14790	17310	10850	13930	8820	(28.4)
0.0 m (0.0 ft)	kg			*15040	9840	10790	6520	7710	4800	6530	4110	8.43
	lb			*33160	21690	23790	14370	17000	10580	14400	9060	(27.7)
-1.5 m (-4.9 ft)	kg	*10480	*10480	*14670	9870	10730	6470	7690	4790	7170	4490	7.89
	lb	*23100	*23100	*32340	21760	23660	14260	16950	10560	15810	9900	(25.9)
-3.0 m (-9.8 ft)	kg	*18430	*18430	*13520	10030	*10200	6570			*8350	5380	6.99
	lb	*40630	*40630	*29810	22110	*22490	14480			*18410	11860	(22.9)
-4.5 m (-14.8 ft)	kg	*14820	*14820	*10960	10410					*8540	7690	5.55
	lb	*32670	*32670	*24160	22950					*18830	16950	(18.2)

Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited by hydraulic capacity.

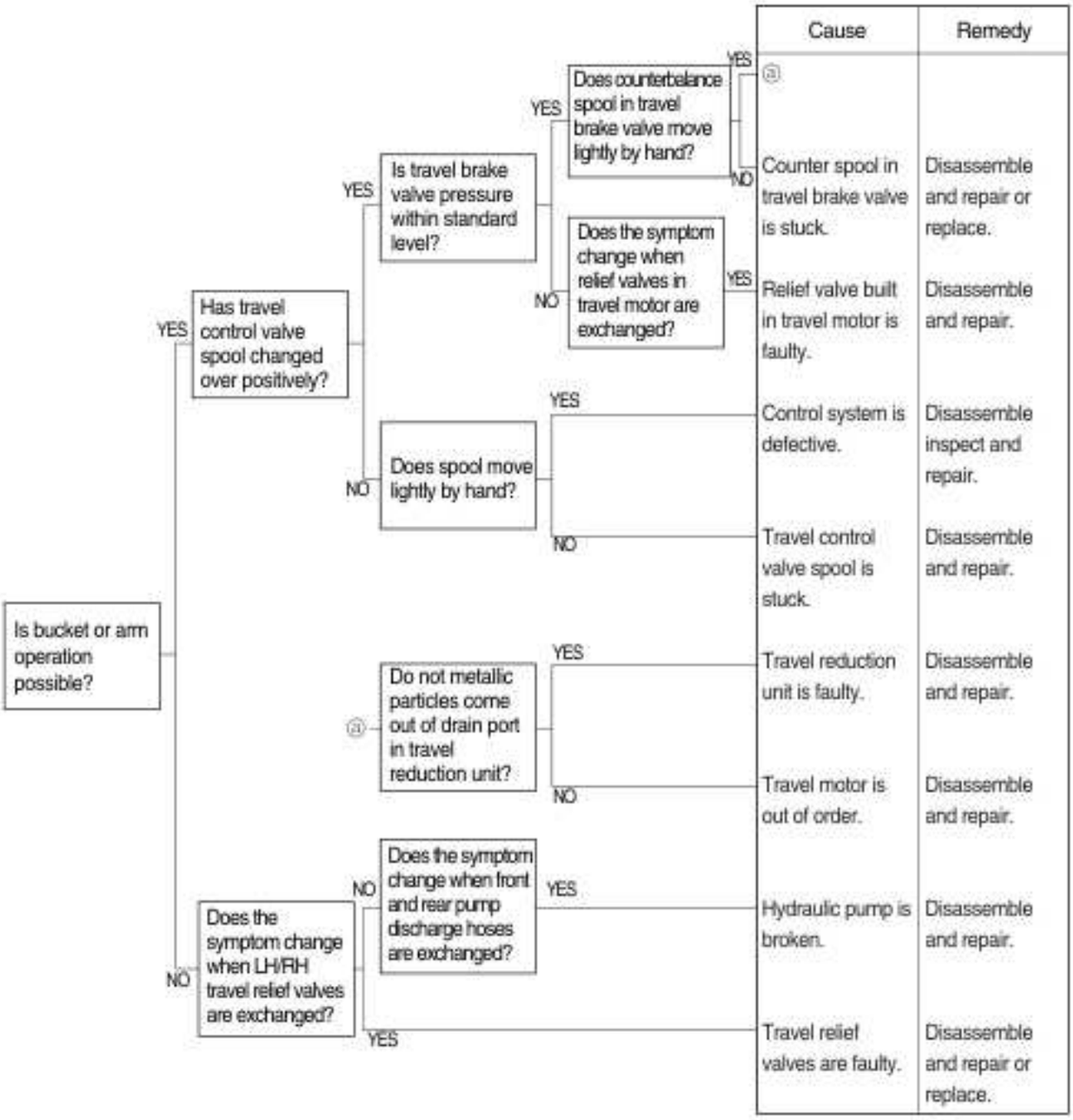
※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

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5. TRAVEL SYSTEM

1) TRAVEL DOES NOT FUNCTION AT ALL ON ONE SIDE

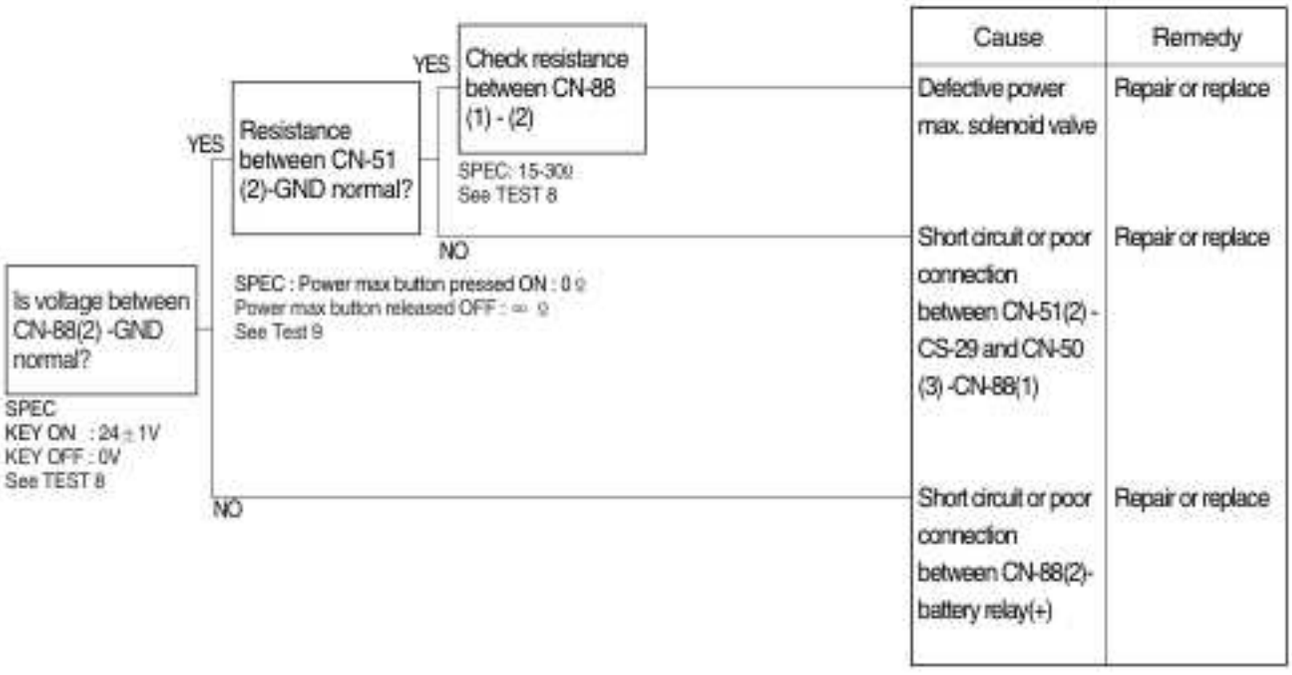


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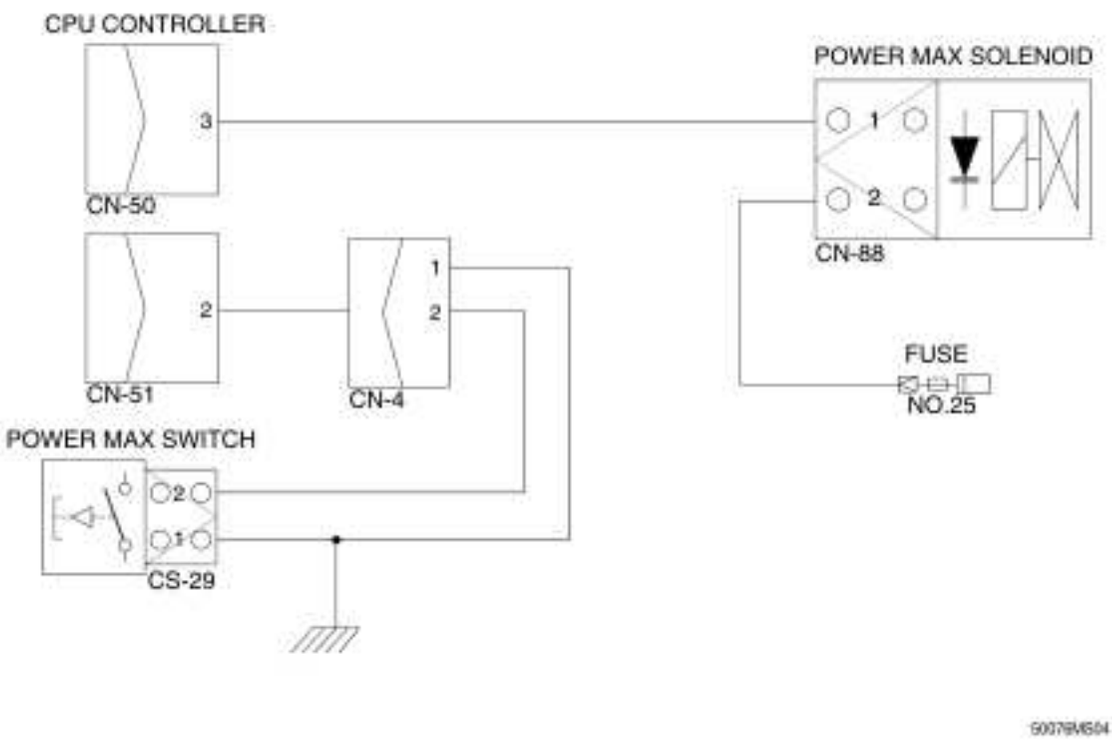
6. MALFUNCTION OF POWER MAX

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

1) INSPECTION PROCEDURE



Wiring diagram



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(28)Assemble piston ring(30), piston ring 252(30) and 278(31) into brake piston(29).



(29)Assemble brake piston into shaft casing.

※ Be careful of the direction of assembling brake piston.



(30)Assemble brake spring(32).

※ Quantity : Spring-10pieces, Holes-11pieces

※ Do not assemble on the top of brake piston.



(31)Insert O-ring(69), after fastening orifice screw(4) with standard torque.

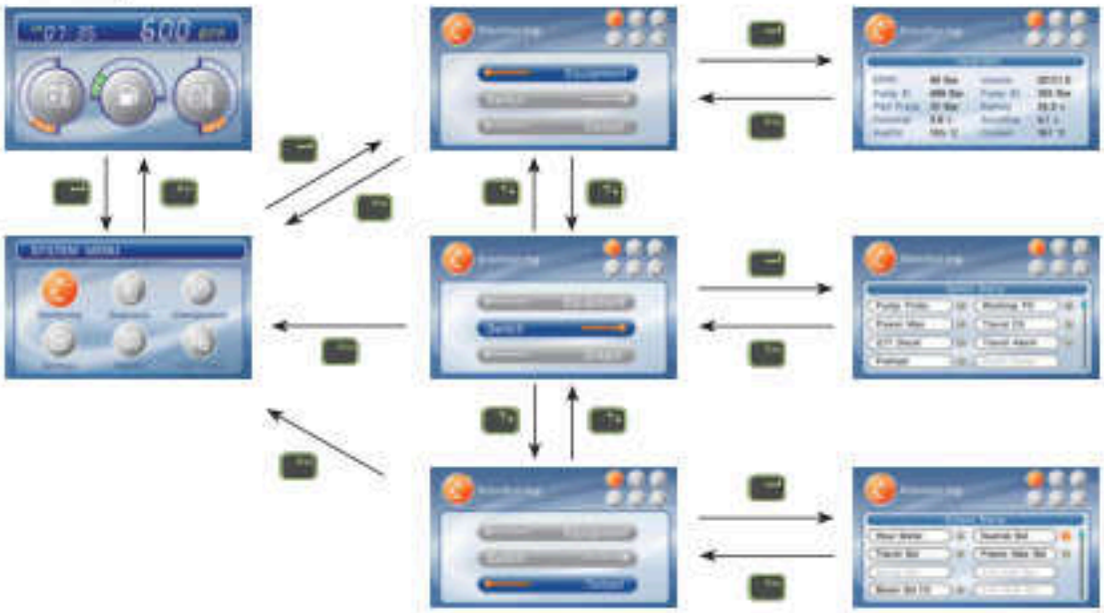
- Quantity and size : (4)2 pieces-ø 1.0
  (56)1pieces-ø 1.5
- Tightening torque : 7kgf · m (50.63lbf · ft)



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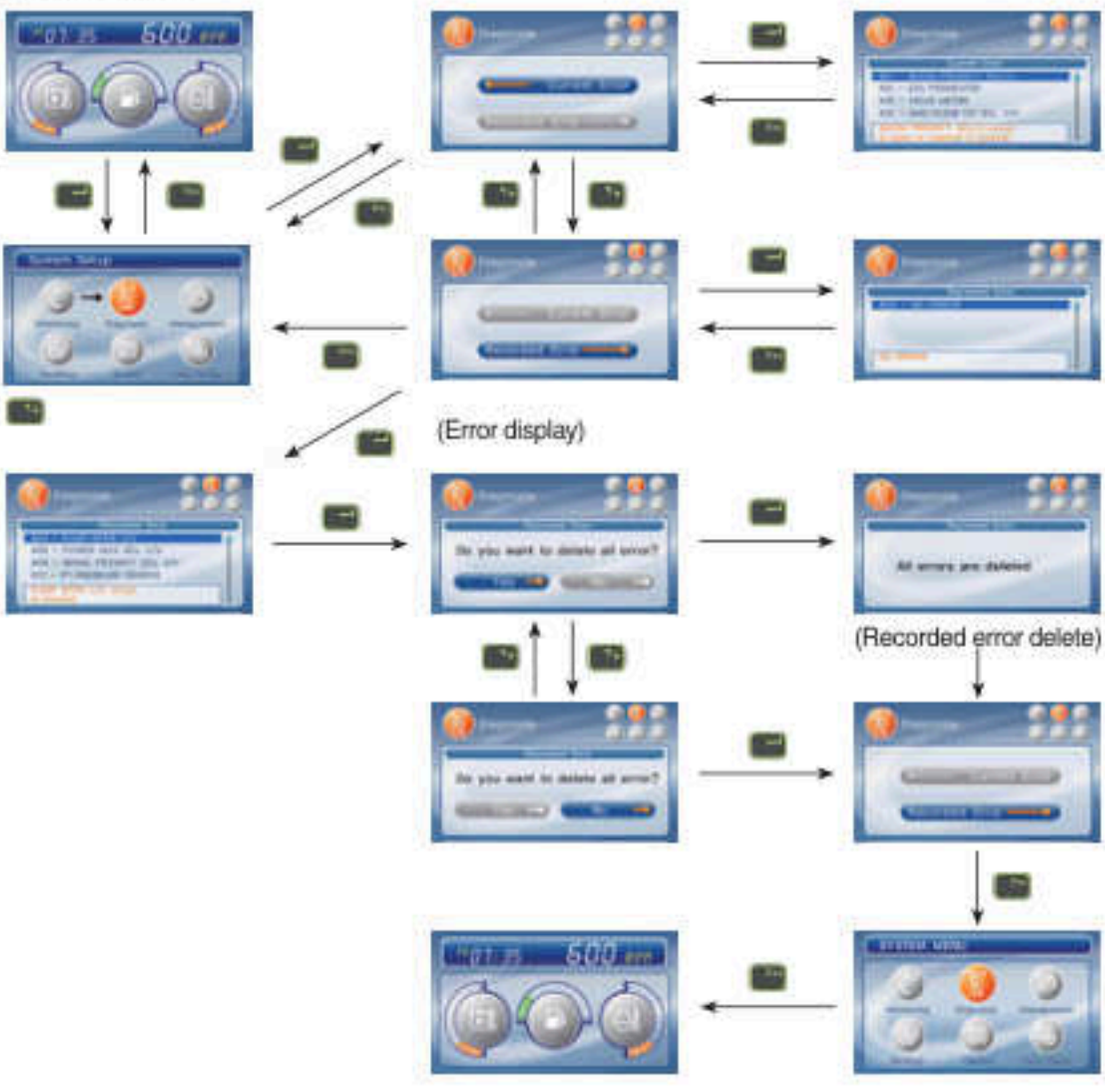
(2) Display map

① Monitoring



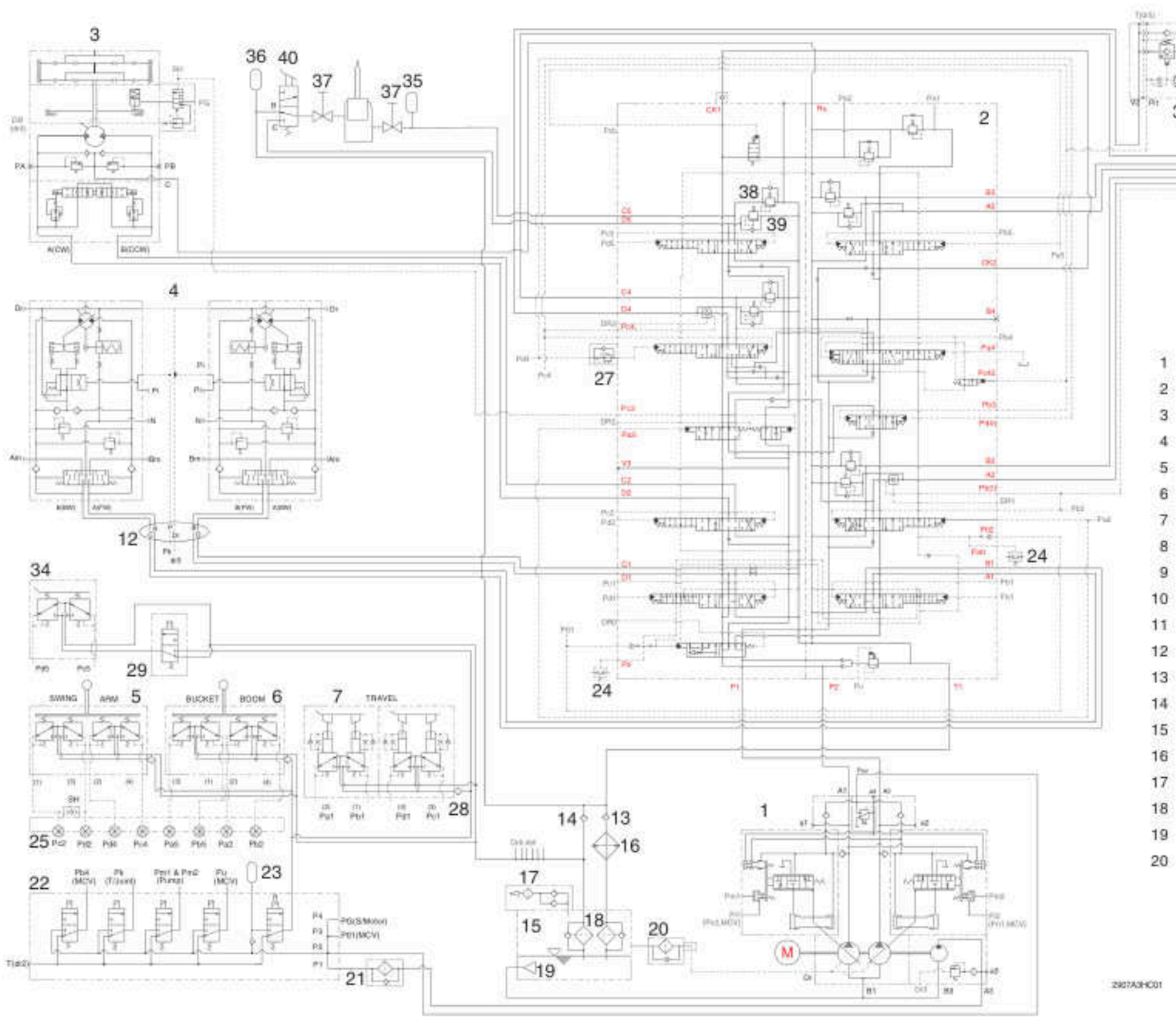
② Diagnosis

a. Protocol type 1



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GROUP 1 HYDRAULIC CIRCUIT



1	Main pump	21	Line filter
2	Main control valve	22	Solenoid valve
3	Swing motor	23	Accumulator
4	Travel motor	24	Pressure switch
5	RCV lever(LH)	25	Shuttle valve
6	RCV lever(RH)	27	Shockless valve
7	Rcv pedal	28	Last guard filter
8	Boom cylinder(LH)	29	Solenoid valve
9	Boom cylinder(RH)	30	Safety valve
10	Arm cylinder	31	Safety valve
11	Bucket cylinder	32	Press switch
12	Turning joint	33	Shut off valve
13	Check valve	34	Pedal
14	Check valve	35	Accumulator
15	Hydraulic tank	36	Accumulator
16	Oil cooler	37	Stop valve
17	Air breather	38	Port relief valve
18	Bypass valve	39	Port relief valve
19	Return element	40	Selector valve
20	Strainer		

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