CRAWLER EXCAVATOR

SERVICE MANUAL

R1250-9

HYUNDAI

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4. WEIGHT

Item	R1250-9	
	kg	lb
Upperstructure assembly	43700	96340
Main frame weld assembly	11960	26370
Engine assembly	2720	6000
Main pump assembly	160	350
Fan pump	55	120
Gear box	580	1280
Main control valve assembly 1	450	990
Main control valve assembly 2	160	350
Swing motor assembly	440	970
Hydraulic oil tank assembly	1770	3900
Fuel tank assembly	1940	4280
Counterweight	20400	44970
Cab assembly	435	960
Cab riser assy	860	1896
Lower chassis assembly	45940	101280
Lower track center frame	17700	39020
Swing bearing	2170	4780
Travel motor assembly	970	2140
Turning joint	75	165
Track recoil spring and tension body	1030	2270
Idler	850	1870
Sprocket	315	700
Carrier roller	70	150
Track roller	210	460
Track-chain assembly (700 mm double grouser shoe)	5070	11180
Front attachment assembly (7.55 m boom, 3.40m arm, 6.70 m³ SAE heaped bucket)	28360	62520
7.55 m boom assembly	10310	22730
3.40 m arm assembly	4010	8840
6.70 m³ SAE heaped bucket	5860	12920
Boom cylinder assembly	1190	2620
Arm cylinder assembly	1510	3330
Bucket cylinder assembly	1050	2310
Bucket control rod assembly	1450	3200

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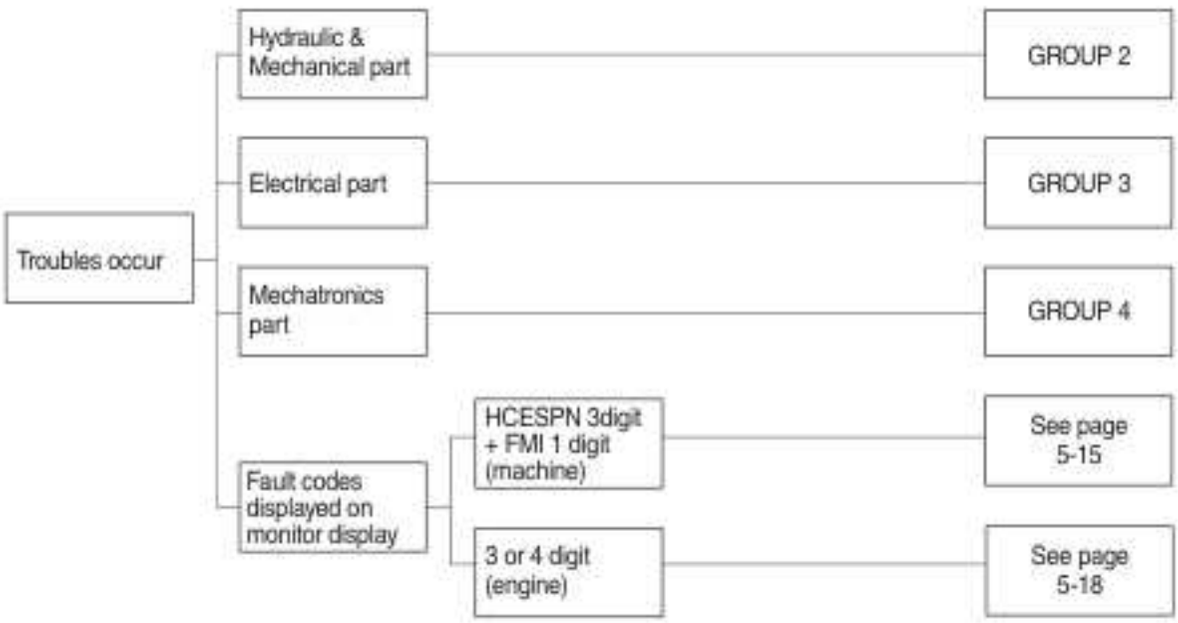
GROUP 1 BEFORE TROUBLESHOOTING

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

- Before carring out troubleshooting procedure, check monitoring menu in the cluster.



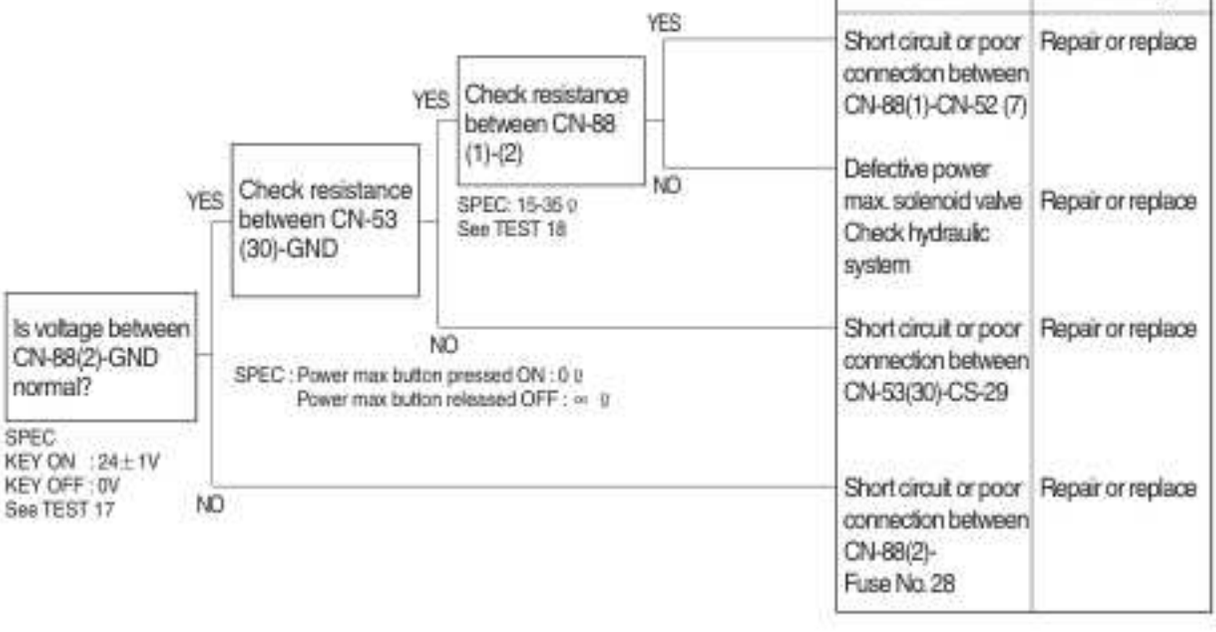
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14. MALFUNCTION OF POWER MAX

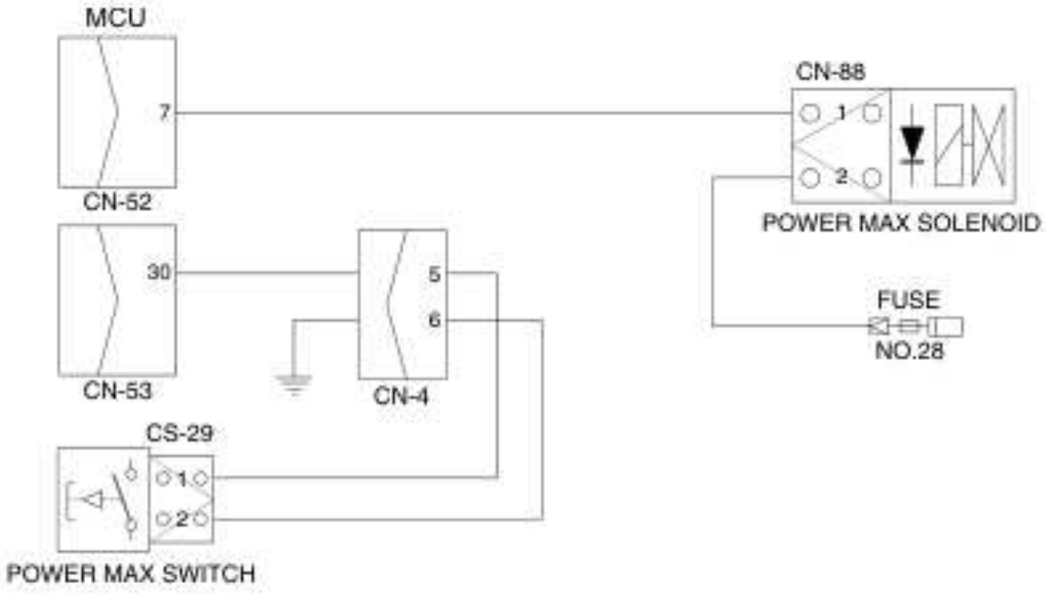
- Fault code : HCESPN 166, FMI 4 or 6

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

1) INSPECTION PROCEDURE



Wiring diagram



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(11) Tap the mounting flange portion of the swash plate support (251) lightly from the pump casing side, and separate the swash plate support and the pump casing.



(12) Remove shoe plate (211) and swash plate (212) from pump casing (271).



(13) Tapping shaft end of drive shaft (111) lightly with plastic hammer, remove it from the swash plate support (251).



(14) Remove valve plates (314) from valve cover (L, 312).

※ These may be removed in work 8.



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⑮ Disassemble shoe plate (8) from body (1).



⑯ Using a plier jig, disassemble snap ring (4) and shaft assy (5).



(2) Disassemble cylinder block assy sub

① Disassemble piston assy (14), set plate (13) from cylinder block assy.



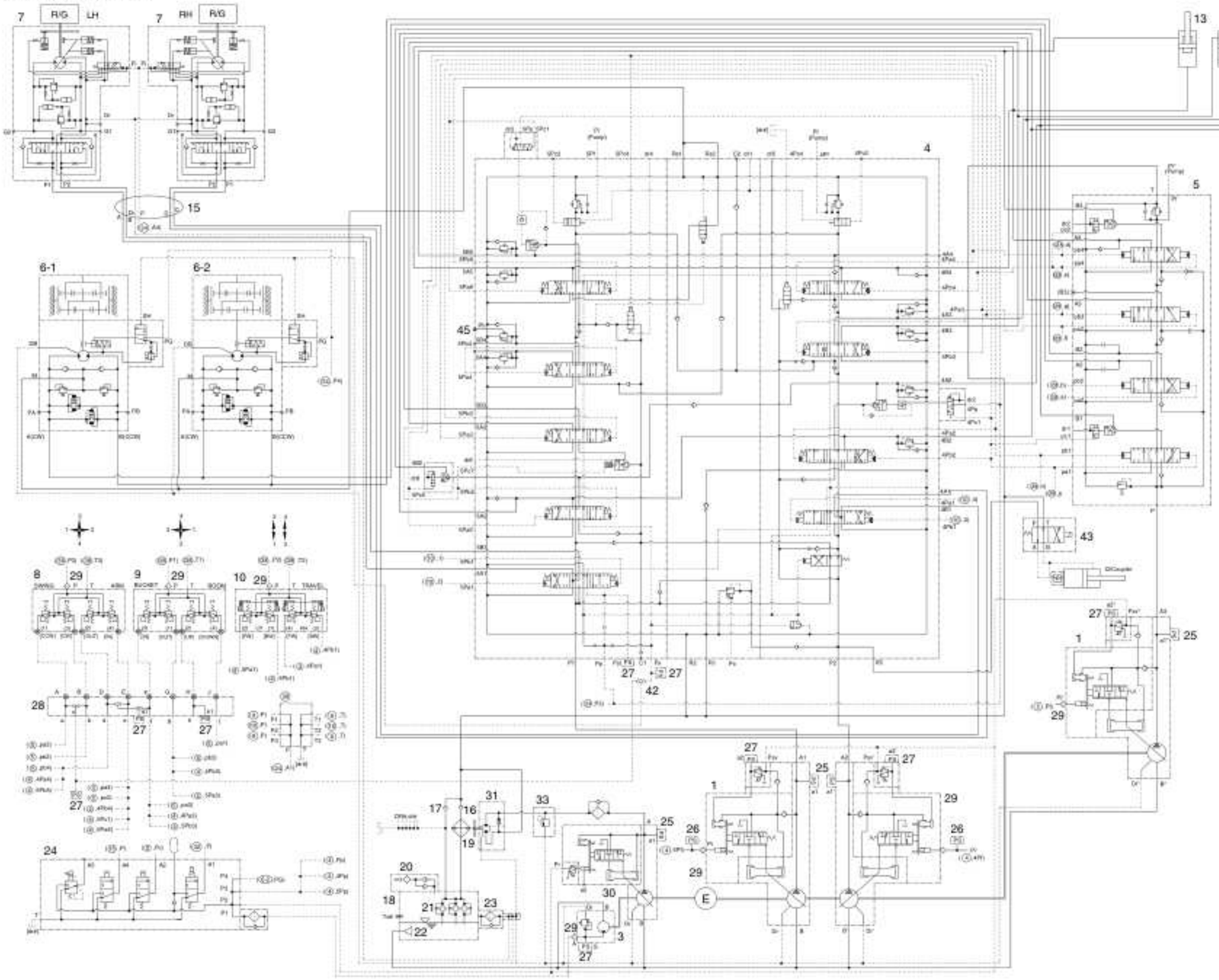
② Disassemble ball guide (12), friction plate (15), plate (16) and ball guide seat (11) from cylinder block (9).



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GROUP 1 HYDRAULIC CIRCUIT

1. HYDRAULIC CIRCUIT (1/2)



1	Pump (nega)
3	Gear pump
4	Main control valve
5	Main control valve
6-1	Swing unit
6-2	Swing unit
7	Travel unit
8	RCV lever (LH)
9	RCV lever (RH)
10	RCV pedal
11	Boom cylinder (LH)
12	Boom cylinder (RH)
13	Arm cylinder
14	Bucket cylinder
15	Turning joint
16	Check valve
17	Check valve
18	Hydraulic tank assy
19	Oil cooler
20	Air breather
21	Return element
22	Strainer assy
23	Drain filter
24	4-cartridge valve
	Pilot filer
	Accumulator
25	Pressure sensor
26	Pressure sensor
27	Pressure sensor
28	Shuttle block
29	Last guard filter
30	Remote fan pump
	Remote fan filter
31	Remote fan motor
33	Relief valve
43	Solenoid valve
44	Pattern change valve
45	Plug

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