CRAWLER EXCAVATOR

SERVICE MANUAL

R1200-9

HYUNDAI

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9) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm² (4980 psi)
Capacity (max / min)	337.2/228.6 cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	18 kgf/cm² (256 psi)
Braking torque	114 kgf · m (825 lbf · ft)

10) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 230 × ø 160 × 2165 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 260 × ø 180 × 2180 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 240 × ø 170 × 1792 mm
	Cushion	Extend only

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

11) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R1200-9	Standard	※700 mm (28")	1.51 kgf/cm² (21.47 psi)	52	4600 mm (15' 1")
	Option	※800 mm (32")	1.34 kgf/cm² (19.05 psi)	52	4700 mm (15' 5")
		※900 mm (36")	1.20 kgf/cm² (17.06 psi)	52	4800 mm (15' 9")

※ Double grouser

12) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R1200-9	Standard	6.70 m³ (8.76 yd³)	5.88 m³ (7.69 yd³)	5	2390 mm (94.1")	-

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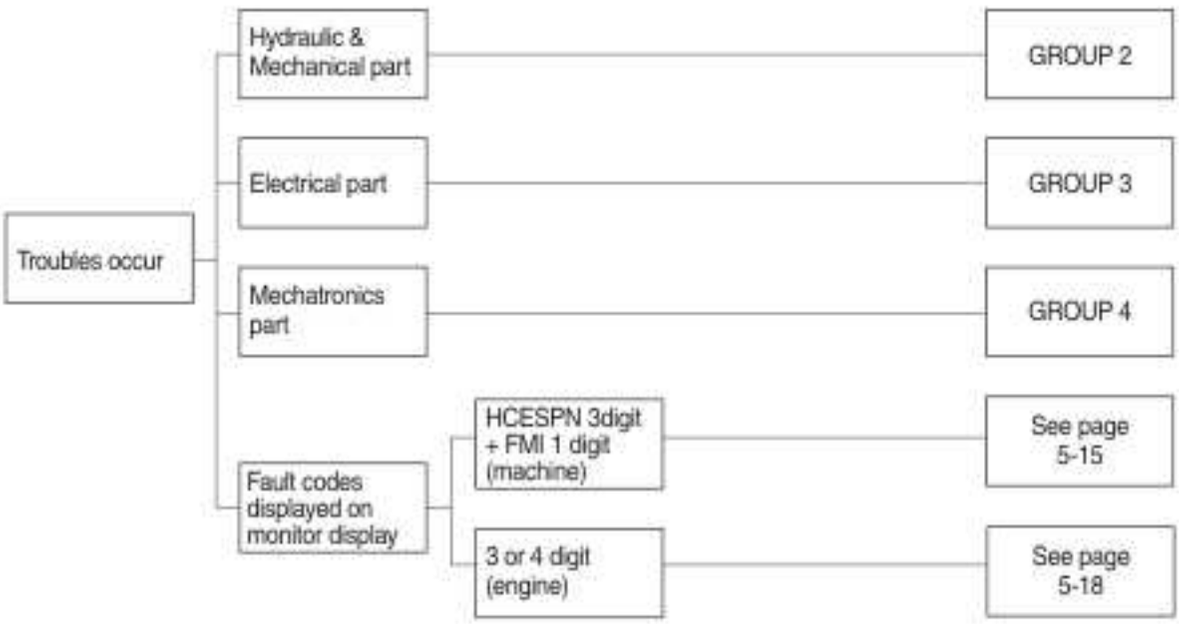
GROUP 1 BEFORE TROUBLESHOOTING

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.



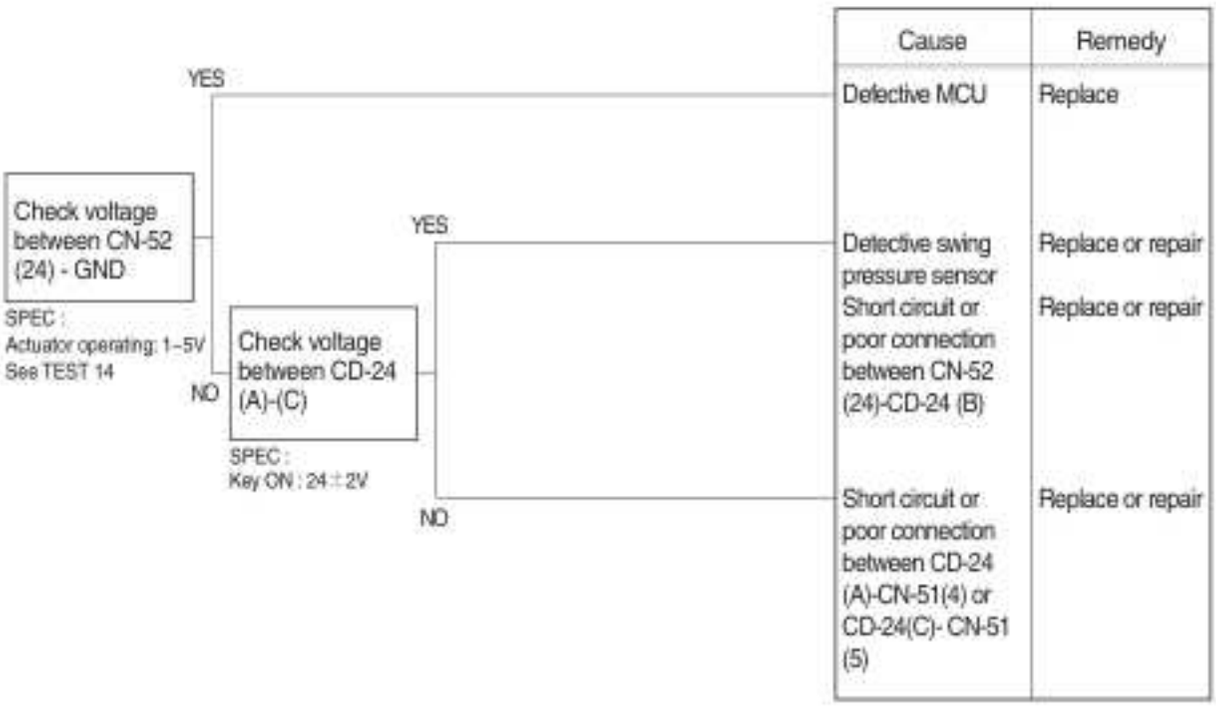
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11. MALFUNCTION OF SWING PRESSURE SENSOR

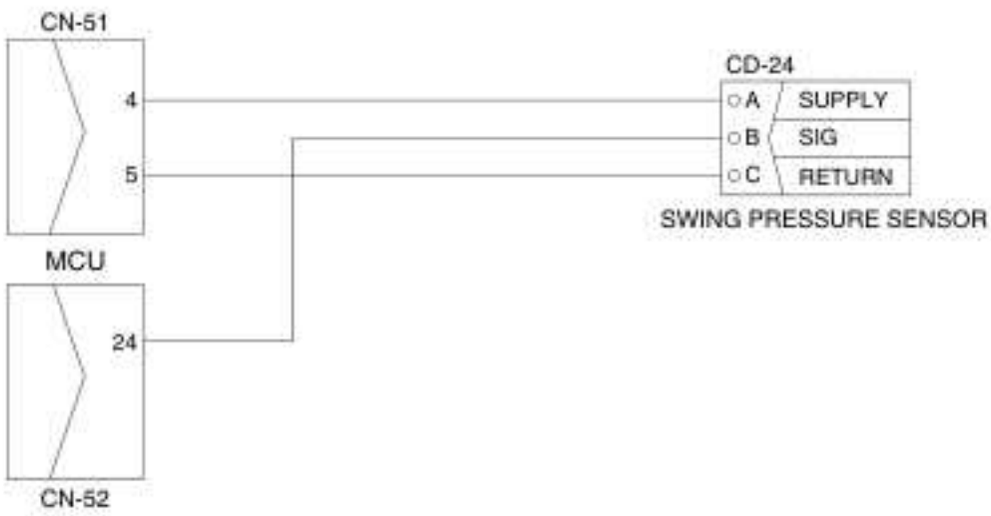
- Fault code : HCESPN 135, FMI 0~4

※ 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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⑤ Disassemble shoe plate (8) from body (1).



⑥ 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.

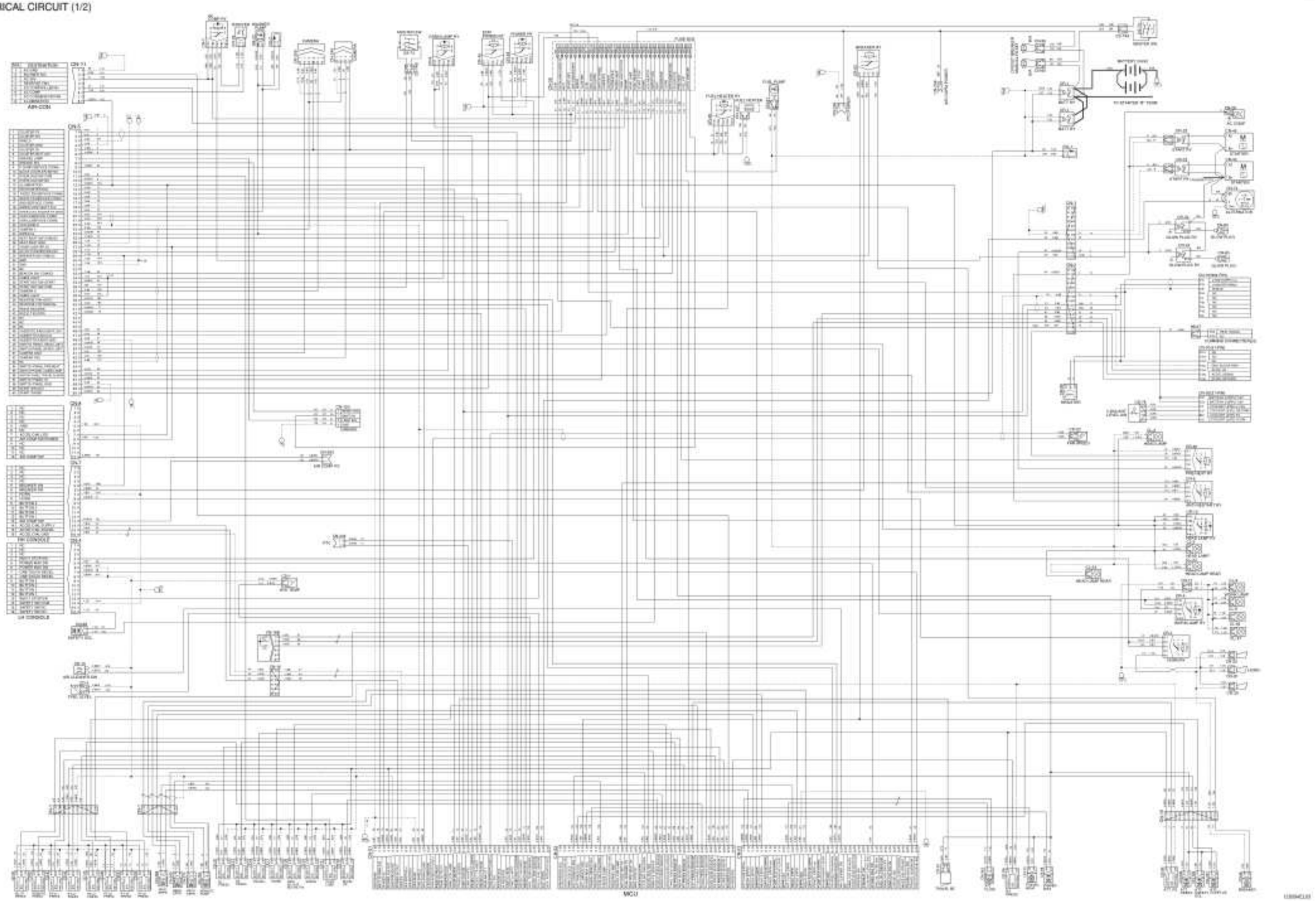


② Disassemble ball guide (12), friction plate (15), plate (16) and ball guide seat (11) from cylinder block (9).



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ELECTRICAL CIRCUIT (1/2)



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