CRAWLER EXCAVATOR

SERVICE MANUAL

R800LC-9

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device 2-1
Group 2 Main Control Valve 2-21
Group 3 Swing Device 2-46
Group 4 Travel Device 2-56
Group 5 RCV Lever 2-73
Group 6 RCV Pedal 2-80

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit 3-1
Group 2 Main Circuit 3-2
Group 3 Pilot Circuit 3-5
Group 4 Single Operation 3-12
Group 5 Combined Operation 3-22

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Electric Circuit 4-3
Group 3 Electrical Component Specification 4-21
Group 4 Connectors 4-29

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline 5-1
Group 2 Mode selection System 5-3
Group 3 Automatic Deceleration System 5-6
Group 4 Power Boost System 5-7
Group 5 Travel Speed Control System 5-8
Group 6 Automatic Warming Up System 5-9
Group 7 Engine Overheat Prevention System 5-10
Group 8 Variable power Control System 5-11
Group 9 Attachment Flow Control System 5-12

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Group 10 Anti-restart System 5-13
Group 11 Self-Diagnostic System 5-14
Group 12 Engine Control System 5-25
Group 13 EPPR (Electro Proportional Pressure Reducing) Valve 5-26
Group 14 Monitoring System 5-31
Group 15 Fuel Warmer System 5-54

SECTION 6 TROUBLESHOOTING

Group 1 Before Troubleshooting 6-1
Group 2 Hydraulic and Mechanical System 6-4
Group 3 Electrical System 6-24
Group 4 Mechatronics System 6-40

SECTION 7 MAINTENANCE STANDARD

Group 1 Operational Performance Test 7-1
Group 2 Major Components 7-21
Group 3 Track and Work Equipment 7-30

SECTION 8 DISASSEMBLY AND ASSEMBLY

Group 1 Precaution 8-1
Group 2 Tightening Torque 8-4
Group 3 Pump Device 8-7
Group 4 Main Control Valve 8-31
Group 5 Swing Device 8-44
Group 6 Travel Device 8-65
Group 7 RCV Lever 8-113
Group 8 Turning Joint 8-127
Group 9 Boom, Arm and Bucket Cylinder 8-132
Group 10 Undercarriage 8-149
Group 11 Work Equipment 8-161

SECTION 9 COMPONENT MOUNTING TORQUE

Group 1 Introduction guide 9-1
Group 2 Engine system 9-2
Group 3 Electric system 9-4
Group 4 Hydraulic system 9-6
Group 5 Undercarriage 9-9
Group 6 Structure 9-10
Group 7 Work equipment 9-16

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8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSX 15
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	137 × 169 mm (5.39" × 6.65")
Piston displacement	15000 cc (915 cu in)
Compression ratio	17 : 1
Rated gross horse power(SAE J1995)	510 hp at 1800 rpm (510 Hp / 380 kW at 1800 rpm)
Maximum torque	241.1 kgf · m (1744 lbf · ft) at 1400 rpm
Engine oil quantity	45.4 ℓ (12 U.S. gal)
Dry weight	1451 kg (3200 lb)
High idling speed	1800 ± 50 rpm
Low idling speed	800 ± 50 rpm
Rated fuel consumption	165.5 g/Hp · hr at 1800 rpm
Starting motor	Prestolite MS7 (24V-9.0kW)
Alternator	Delco Remy 24V-100A
Battery	4 × 12V × 160Ah

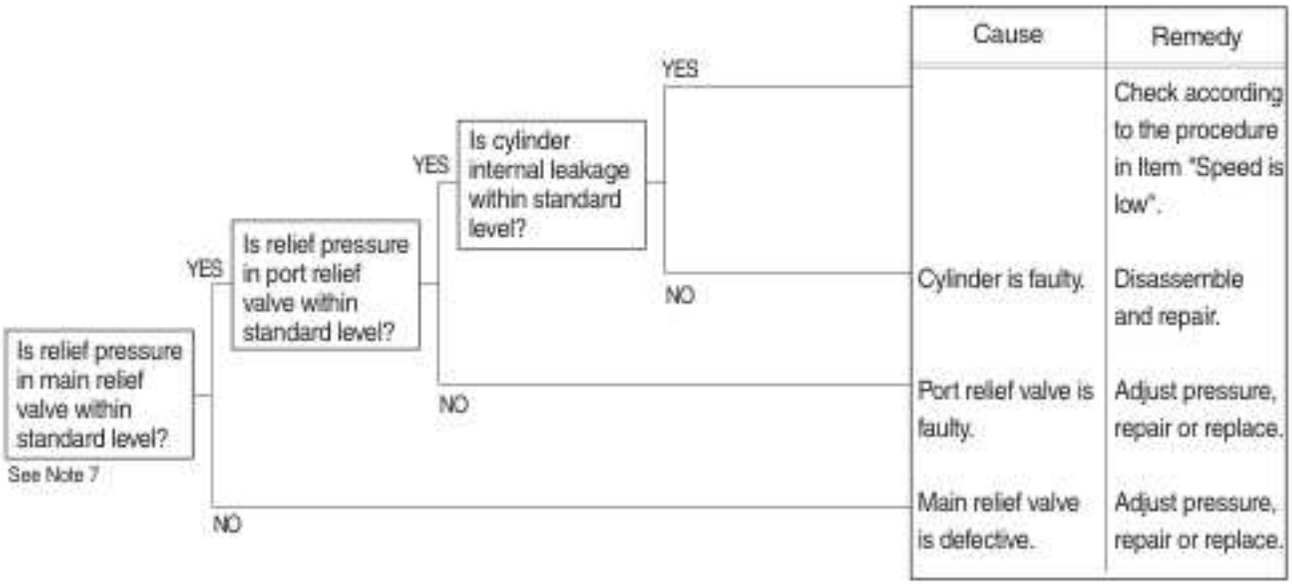
2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 280 cc/rev
Maximum pressure	330 kgf/cm² (4690 psi) [360 kgf/cm² (5120 psi)]
Rated oil flow	2 × 504 ℓ/min (133.1U.S. gpm/110.9U.K. gpm)
Rated speed	1800 rpm

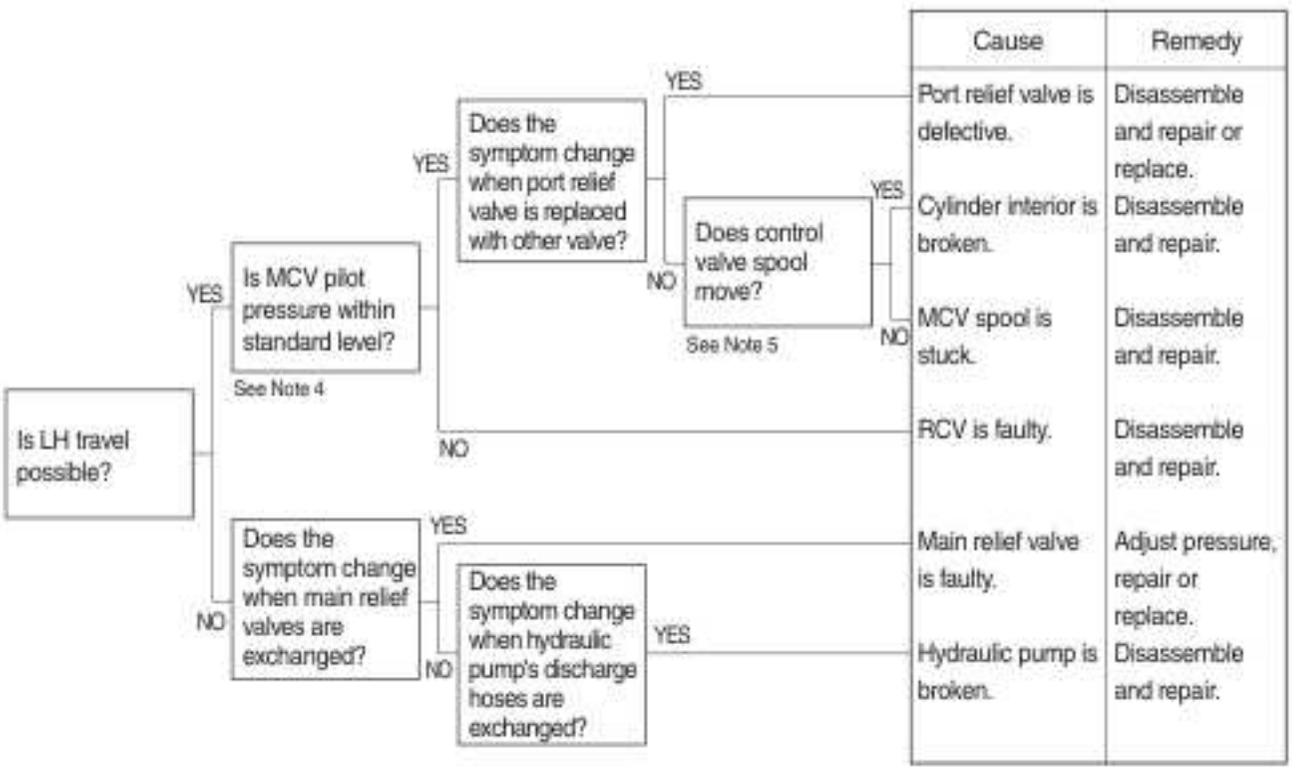
[ ] : Power boost

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4) BOOM, ARM OR BUCKET POWER IS WEAK



5) ONLY BUCKET OPERATION IS TOTALLY IMPOSSIBLE



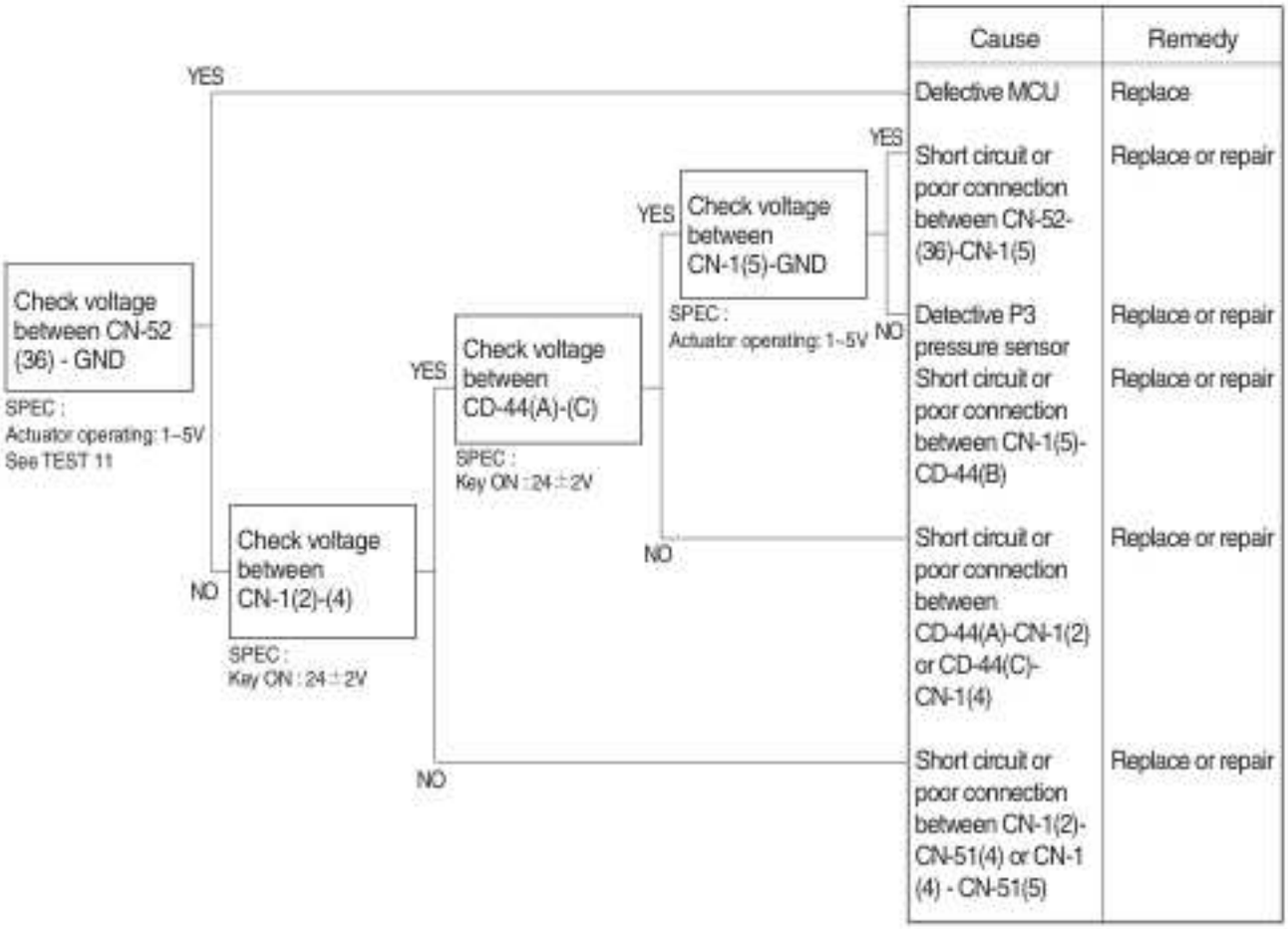
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8. MALFUNCTION OF PUMP 3 PRESSURE SENSOR

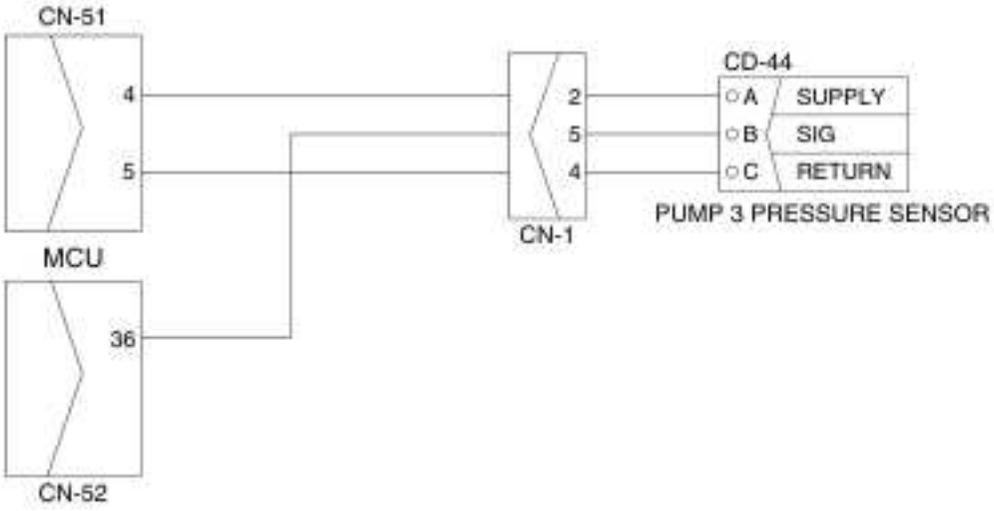
- Fault code : HCESPN 125, FMI 0~4

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

1) INSPECTION PROCEDURE



Wiring diagram



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(35) Assemble pin, spring - 3EA using hammer and caulking with caulking jig.





(36) Assemble 1st sun gear to input pinion shaft .



(37) Tighten snap ring to the groove of input pinion shaft.



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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.

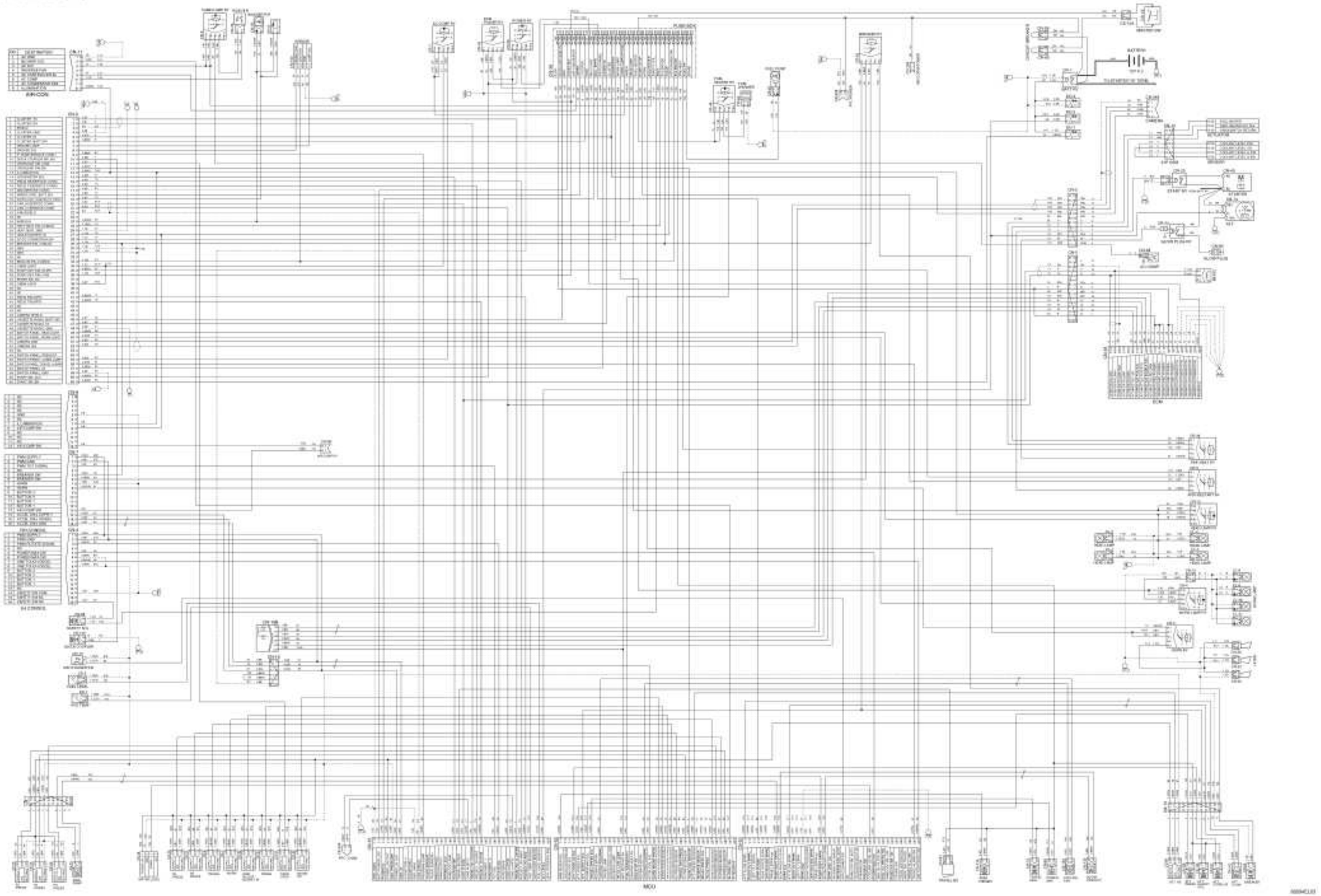


② Disassemble ball guide (12), friction plate (15), plate (16) and ball guide seat (11) from cylinder block (9).



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· ELECTRICAL CIRCUIT (1/2)



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