CRAWLER EXCAVATOR

SERVICE MANUAL

R80-7A

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-9

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device 2-1
Group 2 Main Control Valve 2-9
Group 3 Swing Device 2-28
Group 4 Travel Device 2-38
Group 5 RCV Lever 2-45
Group 6 RCV Pedal 2-52

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 3-10
Group 5 Combined Operation 3-22

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Electrical Circuit 4-3
Group 3 Electrical Component Specification 4-25
Group 4 Connectors 4-33

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline 5-1
Group 2 Mode Selection System 5-3
Group 3 Travel Speed Control System 5-4
Group 4 Automatic Warming Up Function 5-5
Group 5 Engine Overheat Prevention Function 5-6
Group 6 Anti-Restart System 5-7
Group 7 Self-Diagnostic System 5-8
Group 8 Engine Control System 5-10

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Group 9 Monitoring system 5-12

SECTION 6 TROUBLESHOOTING

Group 1 Before Trobleshooting 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 7-20
Group 3 Track and Work Equipment 7-28

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 8-25
Group 5 Swing Device 8-37
Group 6 Travel Device 8-58
Group 7 RCV Lever 8-83
Group 8 Turning Joint 8-98
Group 9 Boom, Arm and Bucket Cylinder 8-103
Group 10 Undercarriage 8-121
Group 11 Work Equipment 8-133

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 9-8
Group 6 Structure 9-9
Group 7 Work Equipment 9-13

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6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

		
※ 0.28m³ SAE heaped bucket	0.15m³ SAE heaped bucket	0.31m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation
					3.7m (12' 2") Mono boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		1.67m arm (5' 6")
※ 0.28m³ (0.37yd³)	0.25m³ (0.33yd³)	670mm (26.4")	750mm (29.5")	230kg (510lb)	
0.15m³ (0.19yd³)	0.13m³ (0.17yd³)	390mm (15.4")	460mm (18.1")	190kg (420lb)	
0.31m³ (0.41yd³)	0.27m³ (0.35yd³)	720mm (28.3")	815mm (32.1")	245kg (540lb)	

※ : Standard bucket

Applicable for materials with density of 1600kg/m³ (2700lb/yd³) or less

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5. ERROR CODES TABLE

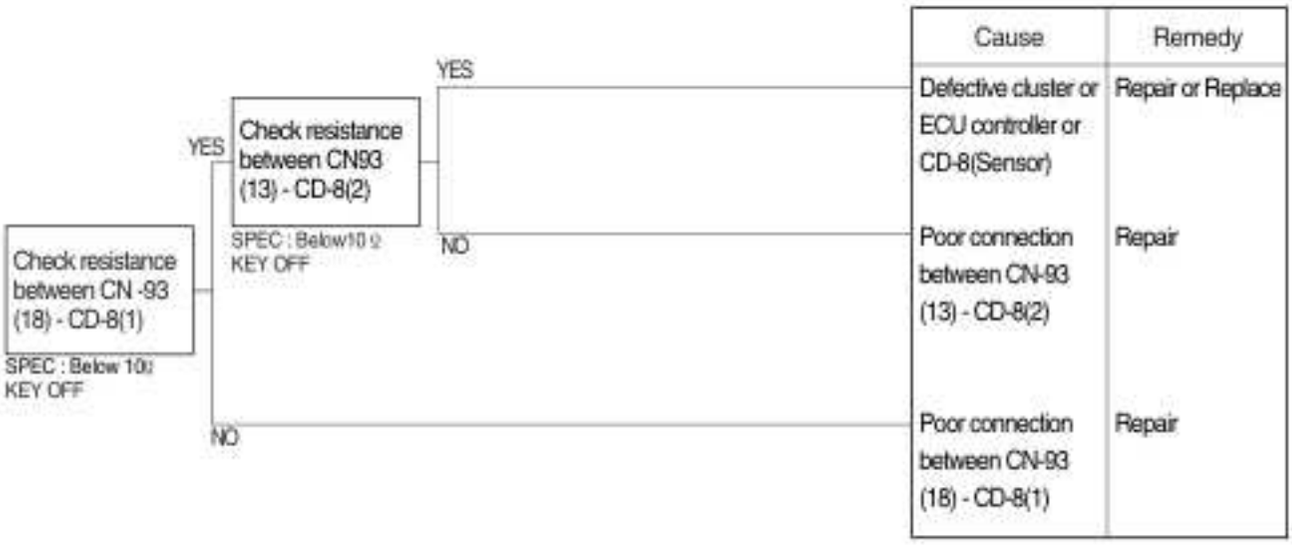
Fault code No.	Description
00	No error
01	Short circuit in accel actuator motor system
02	Potentiometer circuit is shorted to Vcc(5V) or battery +
05	Short circuit in travel speed solenoid system
10	Short circuit in hour-meter system
11	Accel dial circuit is shorted to Vcc(5V) or battery +
16	Accel actuator motor circuit is open or shorted to ground
17	Potentiometer circuit is open or shorted to ground
20	Travel speed solenoid circuit is open or shorted to ground
25	Hour-meter circuit is open or shorted to ground
26	Accel dial circuit is open or shorted to ground
31	Engine preheater circuit is open or shorted to ground
33	Alternator circuit is open or shorted to ground
34	Actuator input voltage is below 18V
35	Actuator input voltage is over 38V
36	Communication error with cluster
37	Engine speed sensor circuit is open or shorted to ground
41	Hydraulic oil temperature sensor circuit is shorted to ground
42	Fuel level sensor circuit is shorted to ground
43	Coolant temperature sensor circuit is shorted to ground
45	Hydraulic oil temperature sensor circuit is open or shorted to battery +
46	Fuel level sensor circuit is open or shorted to battery +
47	Coolant temperature sensor circuit is open or shorted to battery +
49	Engine preheater circuit is shorted to battery +

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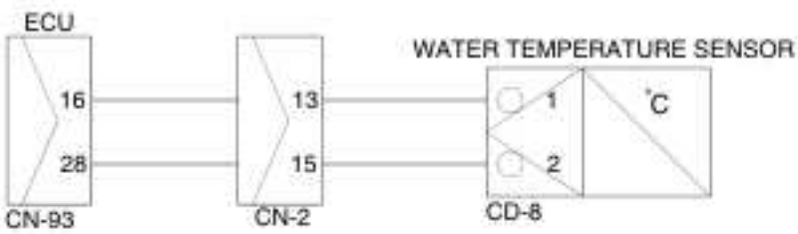
2. MALFUNCTION OF WARMING UP

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

1) INSPECTION PROCEDURE



Wiring diagram



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⑤ Disassembling steel ball(7) from shaft casing(1).



(3) Rear cover

① Disassembling valve plate(13) from rear cover(22).



② Using plier jig, disassembling in order snap ring(27), stopper(26), spring(25), spool(24) from rear cover(22) and then disassembling snap ring(32), seat(30), spring(29), check(28) same procedure.



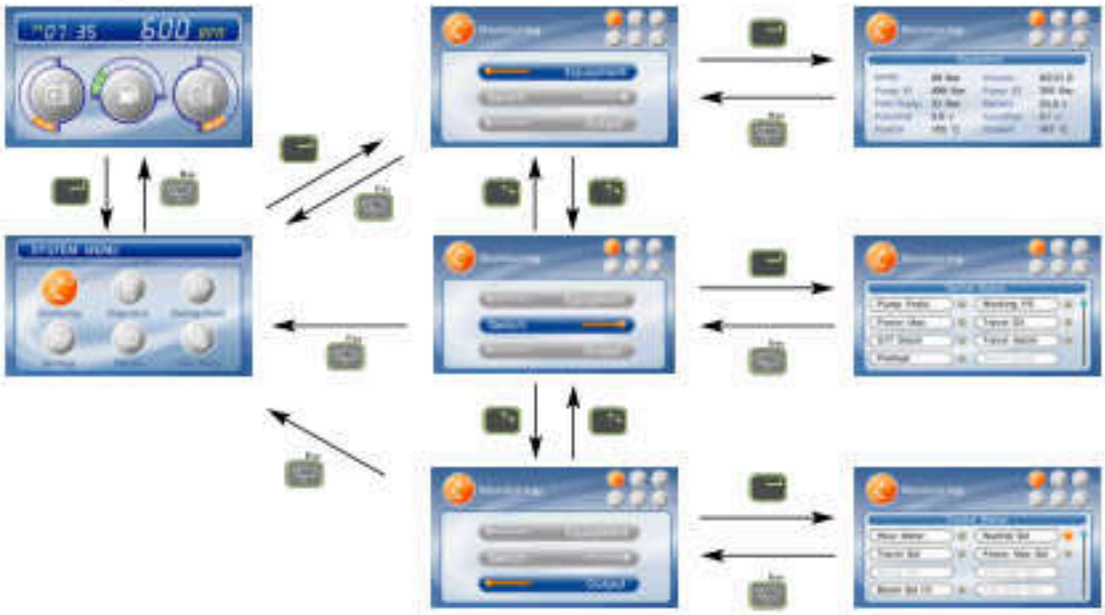
③ Using L-wrench, disassembling plug(45) from rear cover(22) and then relief valve assembly(43) (left, right is symmetry).



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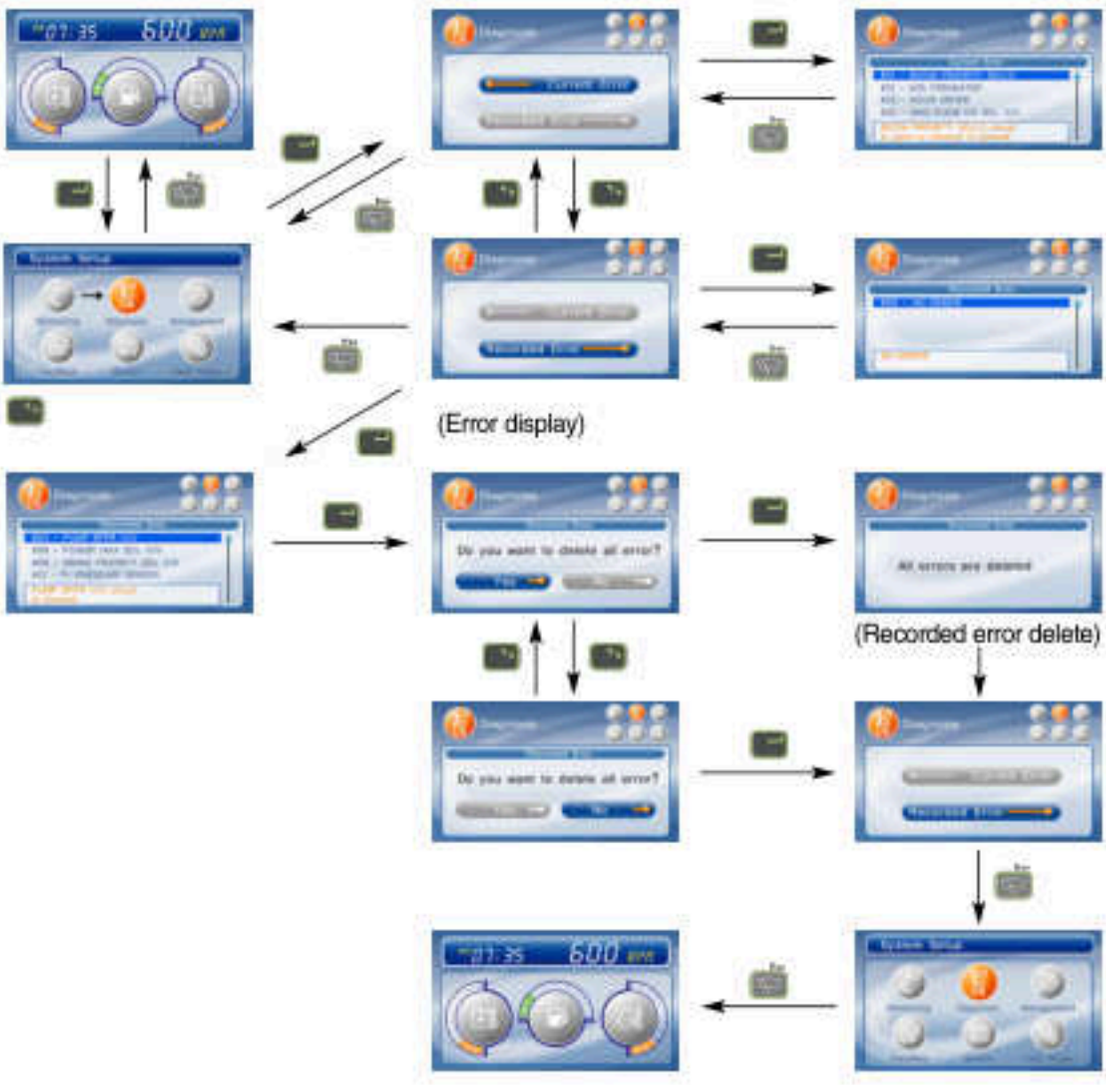
(2) Display map

① Monitoring



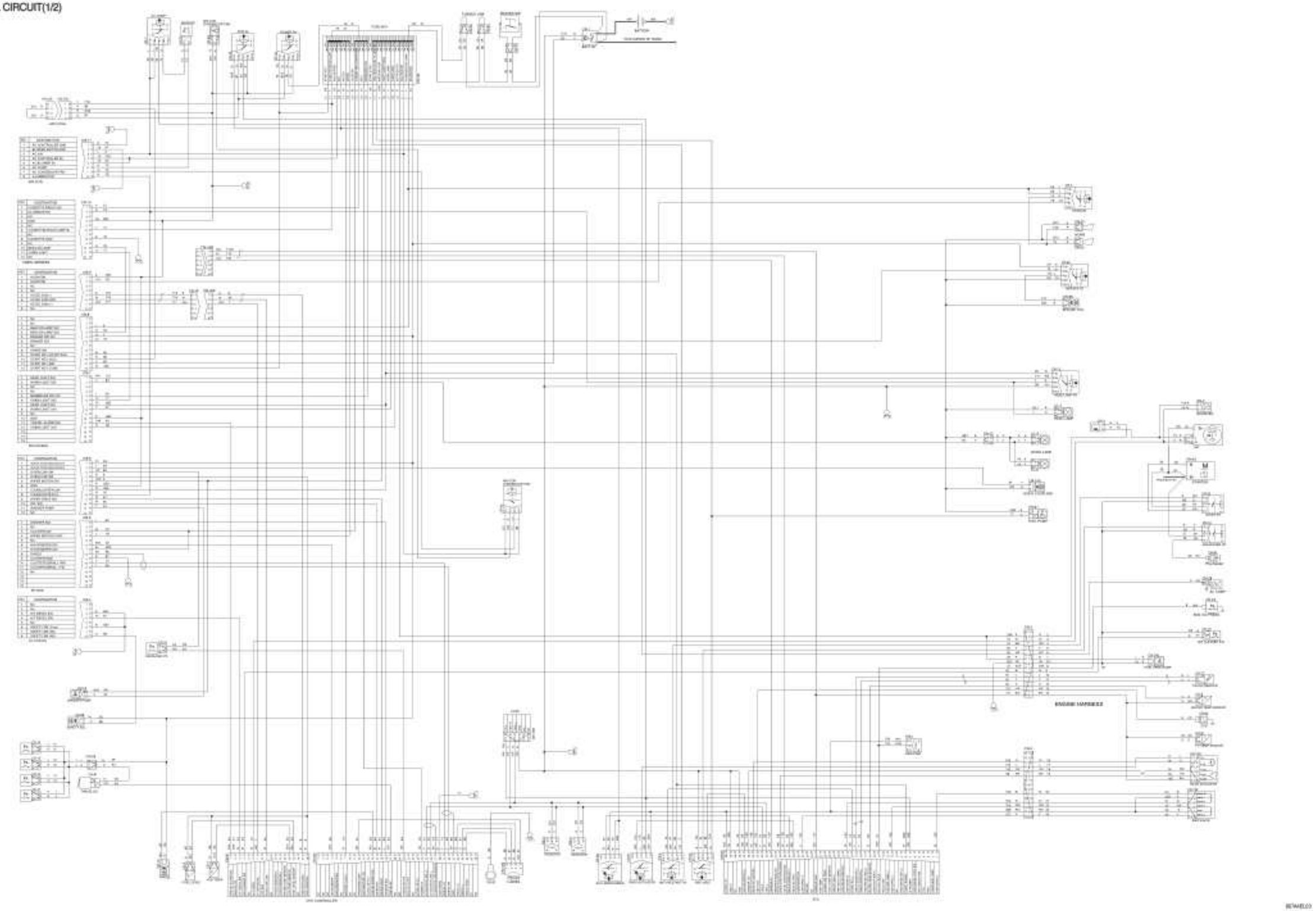
② Diagnosis

a. Protocol type 1



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· ELECTRICAL CIRCUIT(1/2)



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