CRAWLER EXCAVATOR

SERVICE MANUAL

R330LC-9SH

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 2-19
Group 3 Swing Device 2-45
Group 4 Travel Device 2-56
Group 5 RCV Lever 2-65
Group 6 RCV Pedal 2-72

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit 3-1
Group 2 Main Circuit 3-3
Group 3 Pilot Circuit 3-6
Group 4 Single Operation 3-14
Group 5 Combined Operation 3-24

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Electric Circuit 4-3
Group 3 Electrical Component Specification 4-38
Group 4 Connectors 4-46

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline 5-1
Group 2 Mode selection System 5-5
Group 3 Automatic Deceleration System 5-11
Group 4 Power Boost System 5-13
Group 5 Travel Speed Control System 5-15
Group 6 Automatic Warming Up Function 5-17
Group 7 Engine Overheat Prevention Function 5-19
Group 8 Variable Power Control System 5-21

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Group 9 Attachment Flow Control System 5-22
Group 10 Anti-Restart System 5-23
Group 11 Self-Diagnostic System 5-24
Group 12 Engine Control System 5-31
Group 13 EPPR (Electro Proportional Pressure Reducing) Valve 5-33
Group 14 Monitoring System 5-39
Group 15 Fuel Warmer System 5-71

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 6-56

SECTION 7 MAINTENANCE STANDARD

Group 1 Operational Performance Test 7-1
Group 2 Major Components 7-23
Group 3 Track and Work Equipment 7-32

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 8-55
Group 6 Travel Device 8-79
Group 7 RCV Lever 8-112
Group 8 Turning Joint 8-126
Group 9 Boom, Arm and Bucket Cylinder 8-131
Group 10 Undercarriage 8-148
Group 11 Work Equipment 8-160

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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 9-11
Group 7 Work equipment 9-15

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4. WEIGHT

1) R330LC-9SH, R330NLC-9SH

Item	R330LC-9SH		R330NLC-9SH	
	kg	lb	kg	lb
Upperstructure assembly	15110	33310	←	←
Main frame weld assembly	3760	8290	←	←
Engine assembly	920	2028	←	←
Main pump assembly	216	476	←	←
Main control valve assembly	220	490	←	←
Swing motor assembly	370	820	←	←
Hydraulic oil tank assembly	230	490	←	←
Fuel tank assembly	210	450	←	←
Counterweight	6200	13670	←	←
Cab assembly	310	680	←	←
Radiator total assy	280	620	←	←
Lower chassis assembly	11500	25770	11300	24910
Track frame weld assembly	3970	8750	3835	8450
Swing bearing	410	900	←	←
Travel motor assembly	360	800	←	←
Turning joint	50	110	←	←
Tension cylinder	210	450	←	←
Idler	250	540	←	←
Sprocket	80	170	←	←
Carrier roller	40	80	←	←
Track roller	60	120	←	←
Track-chain assembly (600 mm standard triple grouser shoe)	1860	4100	←	←
Front attachment assembly (6.45 m boom, 3.2 m arm, 1.44 m³ SAE heaped bucket)	6390	14090	←	←
6.45 m boom assembly	2540	5600	←	←
3.2 m arm assembly	1160	2560	←	←
1.44 m³ SAE heaped bucket	1120	2470	←	←
Boom cylinder assembly	300	660	←	←
Arm cylinder assembly	380	840	←	←
Bucket cylinder assembly	270	570	←	←
Bucket control linkage assembly	370	820	←	←

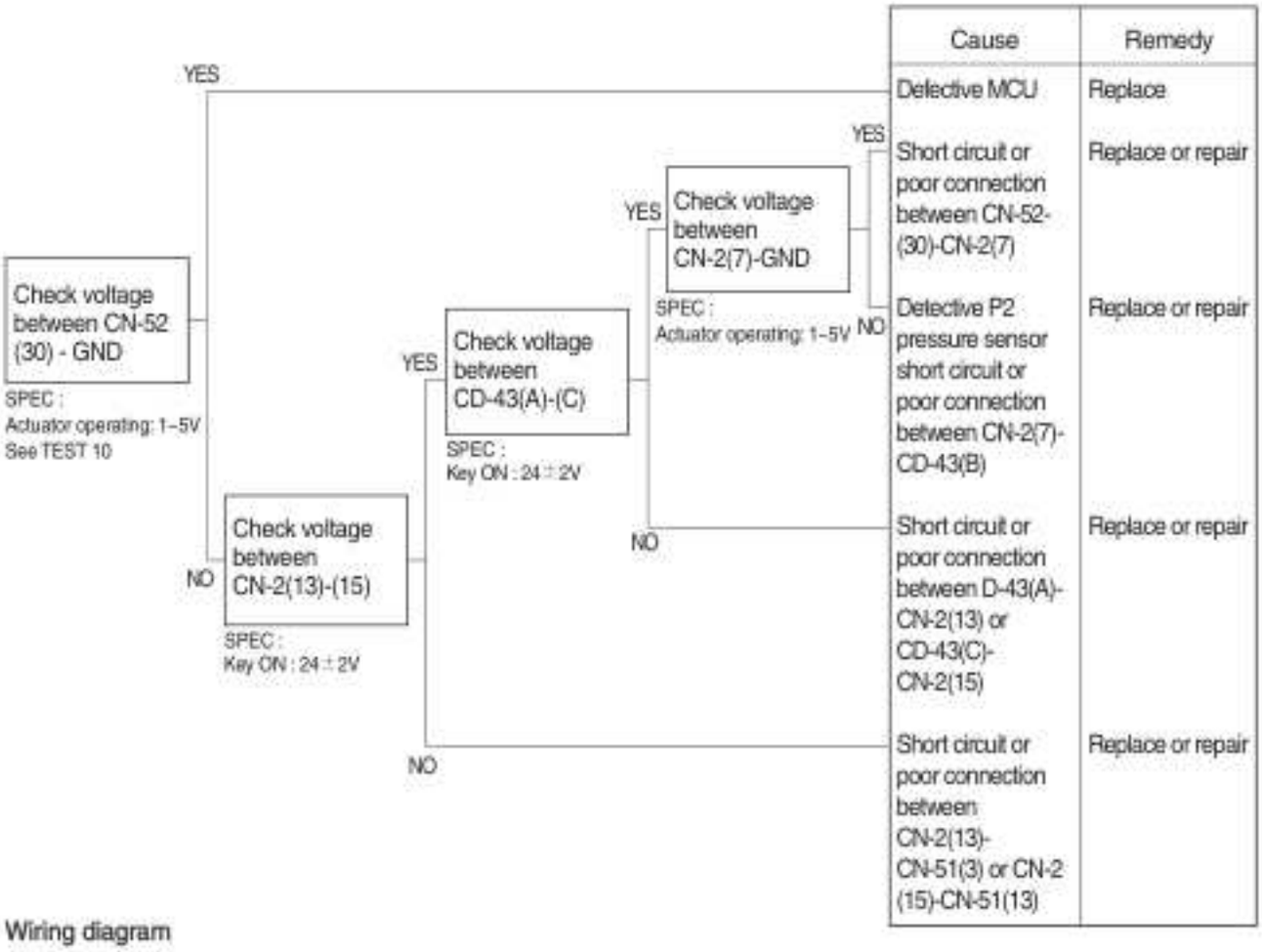
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7. MALFUNCTION OF PUMP 2 PRESSURE SENSOR

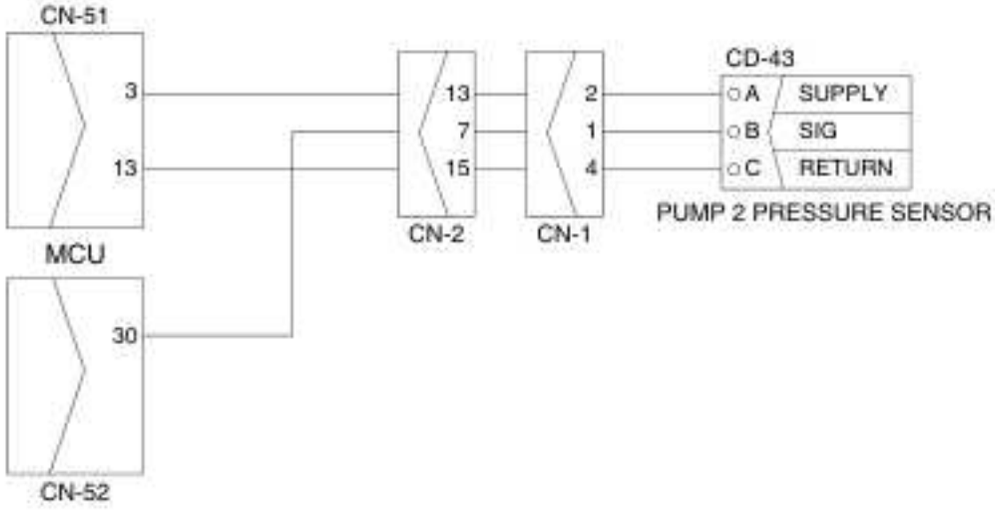
- Fault code : HCESPN 121, FMI 0~4

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

1) INSPECTION PROCEDURE



Wiring diagram



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10. MALFUNCTION OF BOOM PRIORITY EPPR VALVE

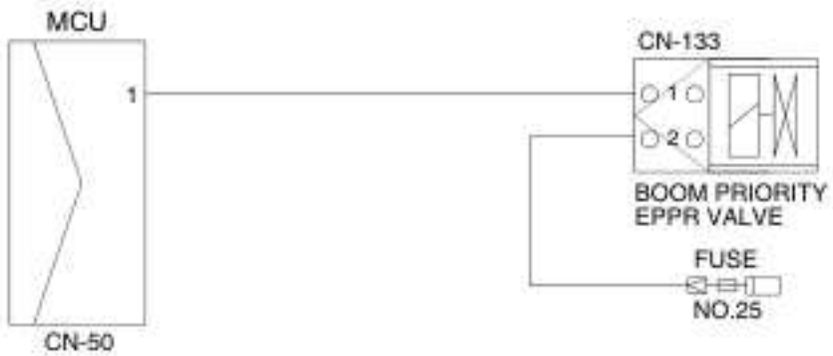
※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Cause	Remedy
Short circuit or poor connection between CN-50(1)-CN-133 (1) or Fuse No.25 CN-133(2)	Repair or replace
Defective EPPR valve	Repair or replace

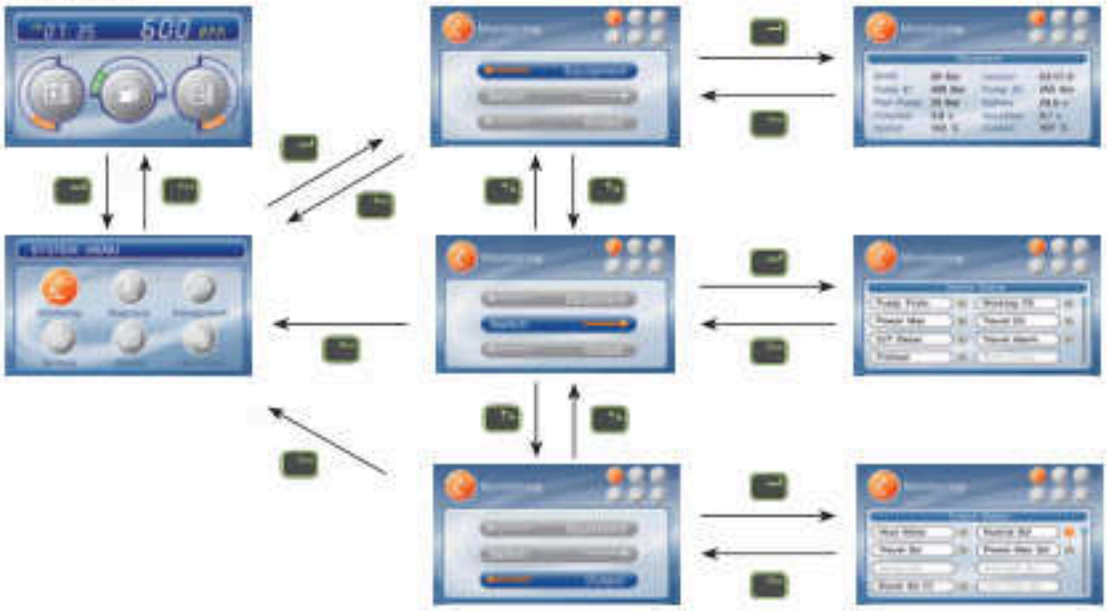
Wiring diagram



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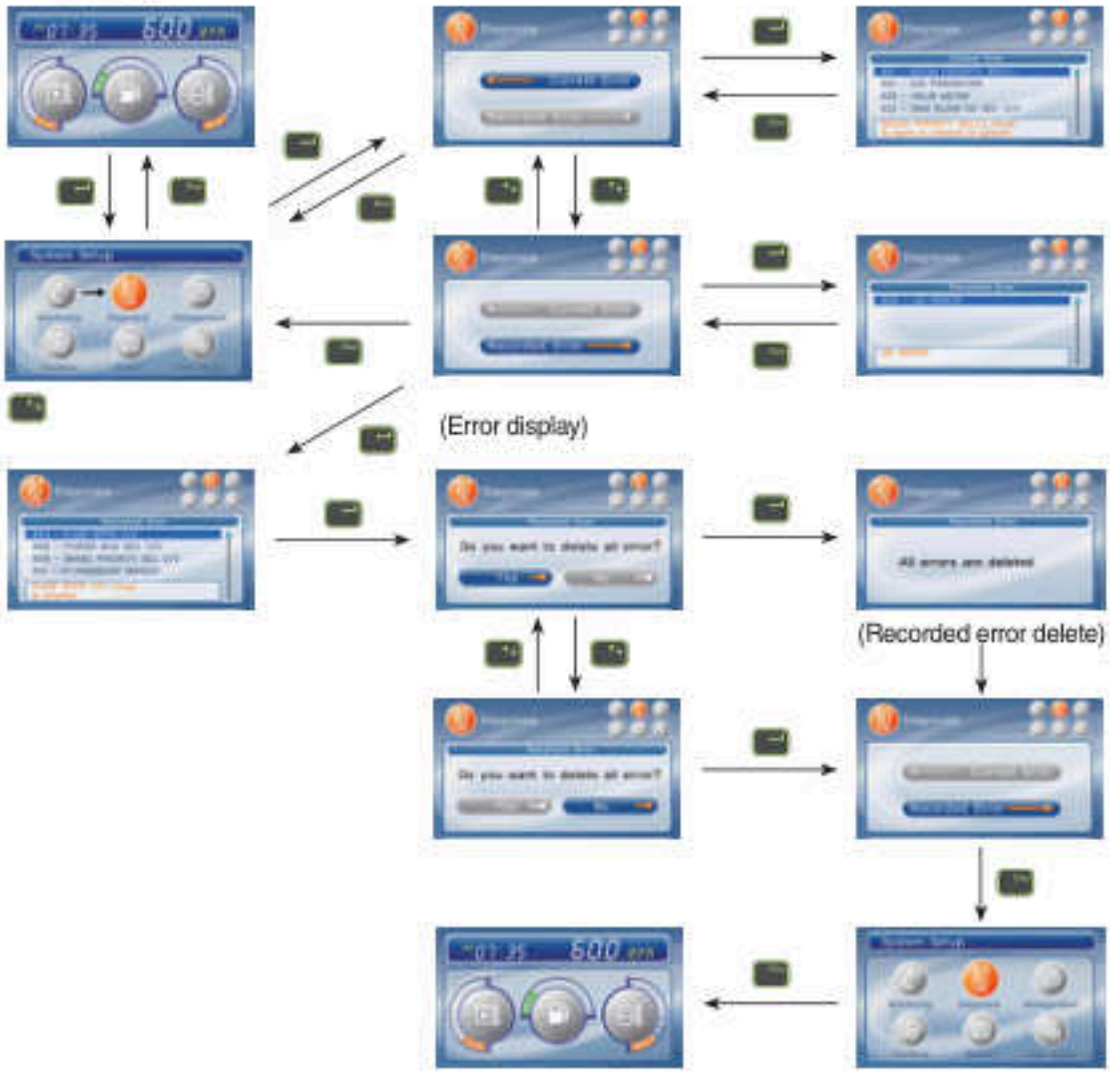
(2) Display map

① Monitoring



② Diagnosis

a. Protocol type 1



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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.

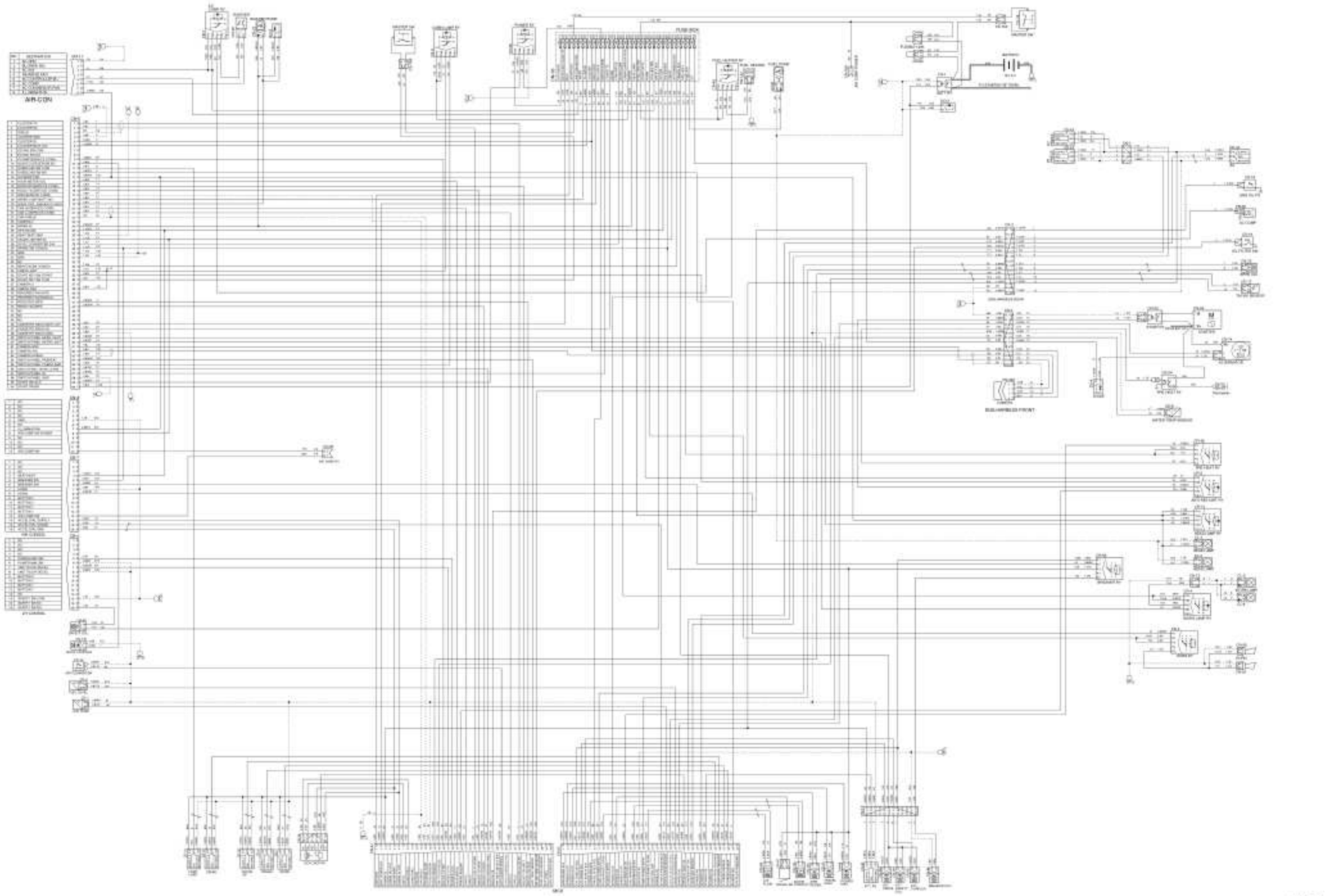


(31)Insert O-ring (69), after fastening orifice screw (4) with standard torque.

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



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