CRAWLER EXCAVATOR

SERVICE MANUAL

R430LC-9SH

HYUNDAI

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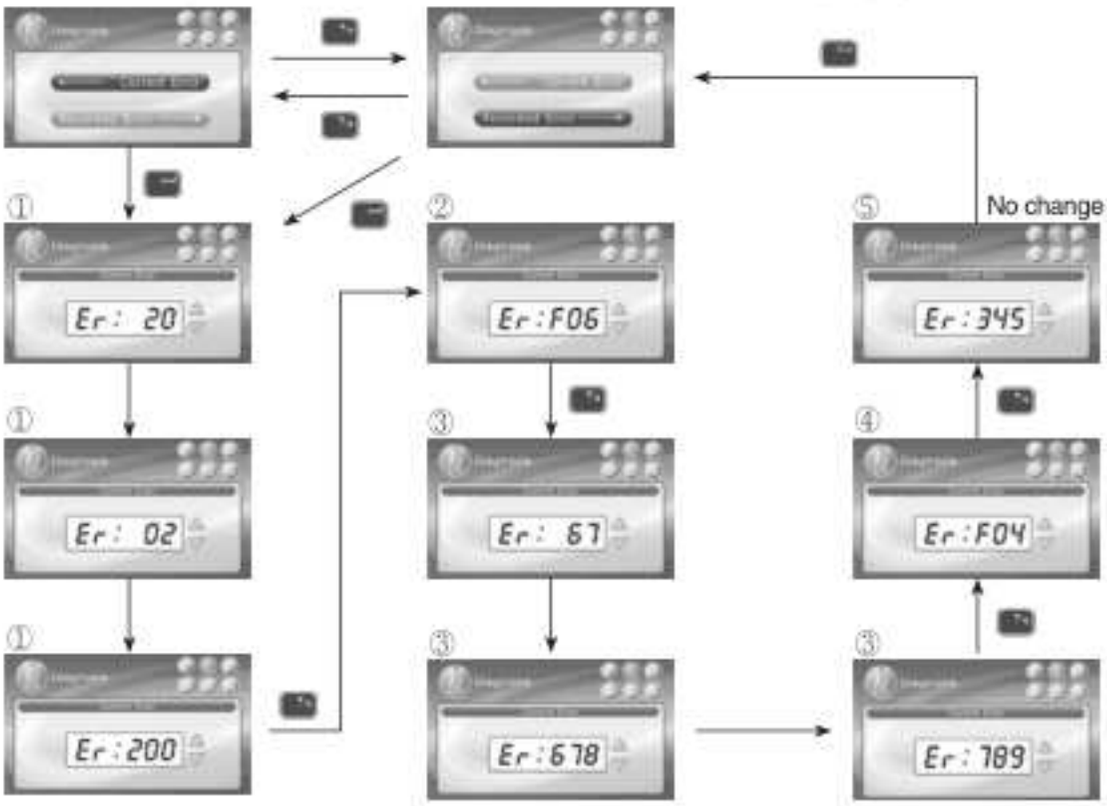
4. WEIGHT

Item	R430LC-9SH	
	kg	lb
Upperstructure assembly	15540	34260
Main frame weld assembly	3090	6810
Engine assembly	920	2030
Main pump assembly	190	420
Main control valve assembly	340	750
Swing motor assembly	440	970
Hydraulic oil tank assembly	340	750
Fuel tank assembly	230	510
Counterweight	7000	15430
Cab assembly	490	1080
Lower chassis assembly	19200	42330
Track frame weld assembly	7060	15560
Swing bearing	590	1300
Travel motor assembly	620	1370
Turning joint	65	140
Track recoil spring	310	680
Idler	250	550
Carrier roller	40	90
Track roller	80	180
Track-chain assembly (600 mm standard triple grouser shoe)	2700	5950
Front attachment assembly (6.5 m boom, 3.2 m arm, 1.90 m^3 SAE heaped bucket)	7860	17330
6.5 m boom assembly	3050	6720
3.2 m arm assembly	1410	3110
1.90 m^3 SAE heaped bucket	1675	3690
Boom cylinder assembly	370	820
Arm cylinder assembly	490	1080
Bucket cylinder assembly	320	710
Bucket control linkage assembly	370	820

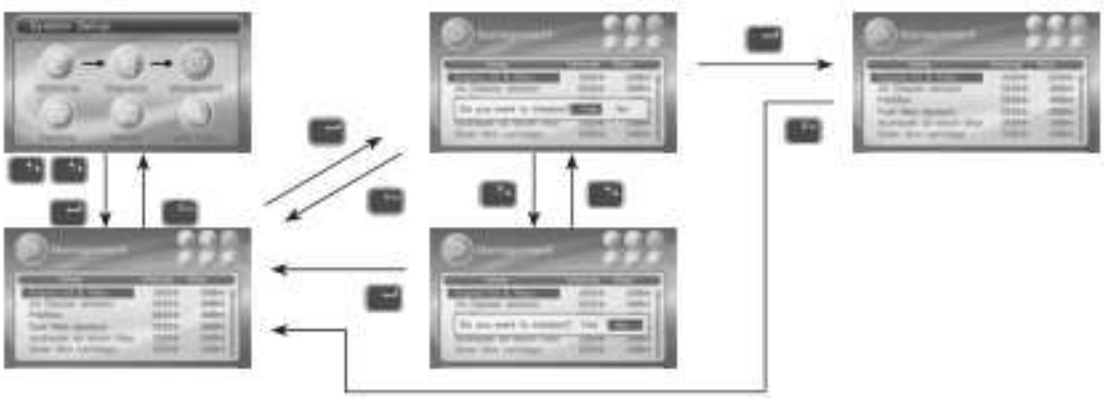
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b. Protocol type 2

- If there are more than 2 error codes, each one can be displayed by pressing or switch respectively.
- 3 error codes (①SPN200200, ②FMI06, ③SPN6789, ④FMI04, ⑤345) display.



③ Maintenance



④ Setting

a. Time set



b. System lock - Reserved

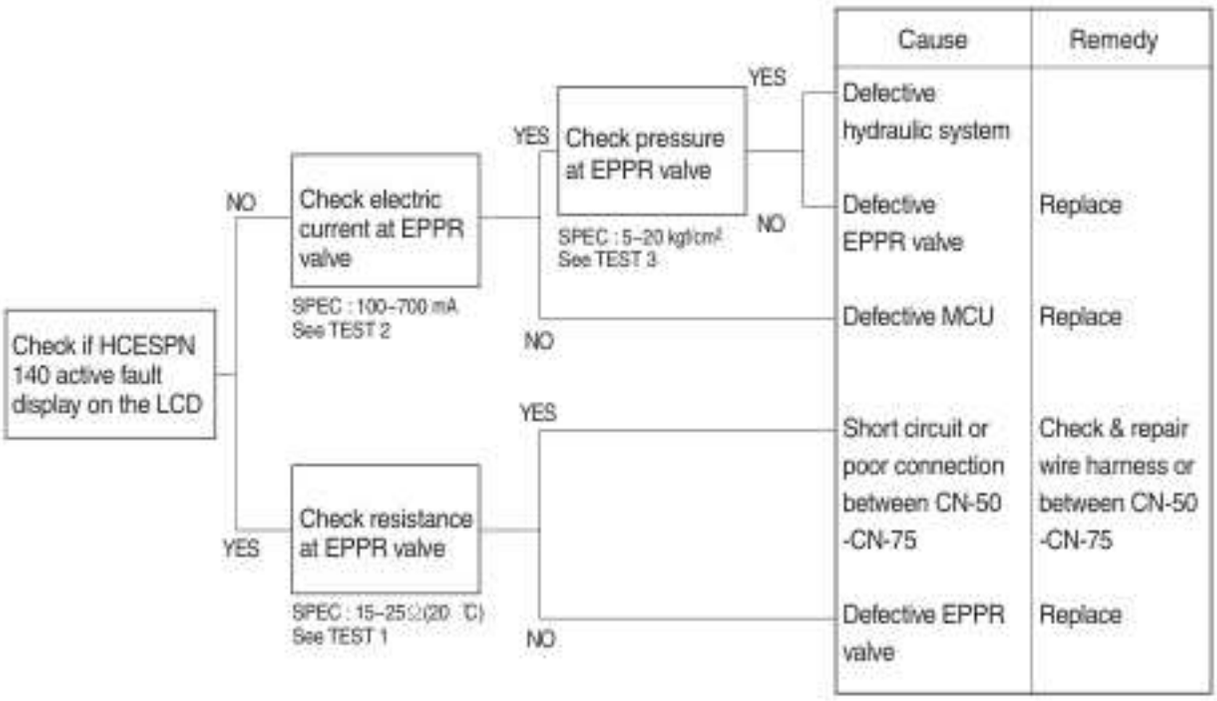
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■ MECHATRONICS SYSTEM (CLUSTER TYPE 2)

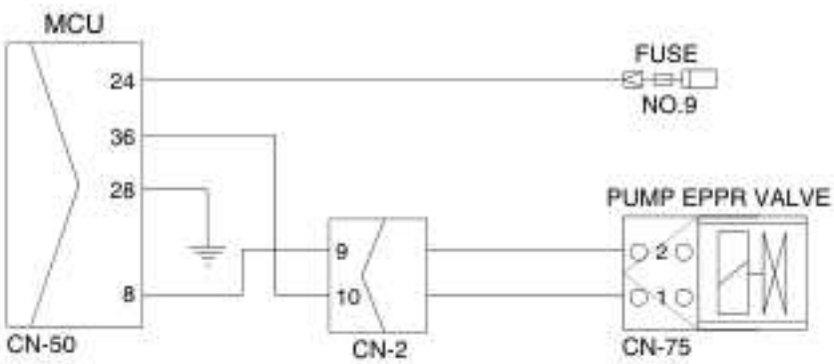
1. ALL ACTUATORS SPEED ARE SLOW

※ Boom, Arm, Bucket, Swing and travel speed are slow, but engine speed is good.
※ Spec : P-mode 1850 ± 50 rpm S -mode 1750 ± 50 rpm E-mode 1650 ± 50 rpm
※ Before carrying out below procedure, check all the related connectors are properly inserted and fault code on the cluster.

1) INSPECTION PROCEDURE



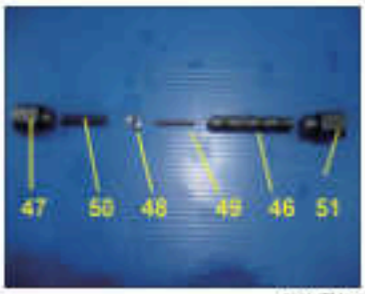
Wiring diagram



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(5) Insert spool (46), parallel pin (49), spring seat (48) and spring (50) in regular sequence and then assemble plug (47), connector (51) using torque-wrench.

Tightening torque : 5.5±0.5 kgf·m (39.8±3.62 lbf·ft)






(6) Press needle bearing (10) into rear cover (32) using jig.



(7) Assemble spring pin (30), parallel pin (27) using small hammer.



(8) Apply loctitle #242 on the restrictor (57, 58) and then assemble restrictor (57, 58), O-ring (43, 44) into rear cover (34).



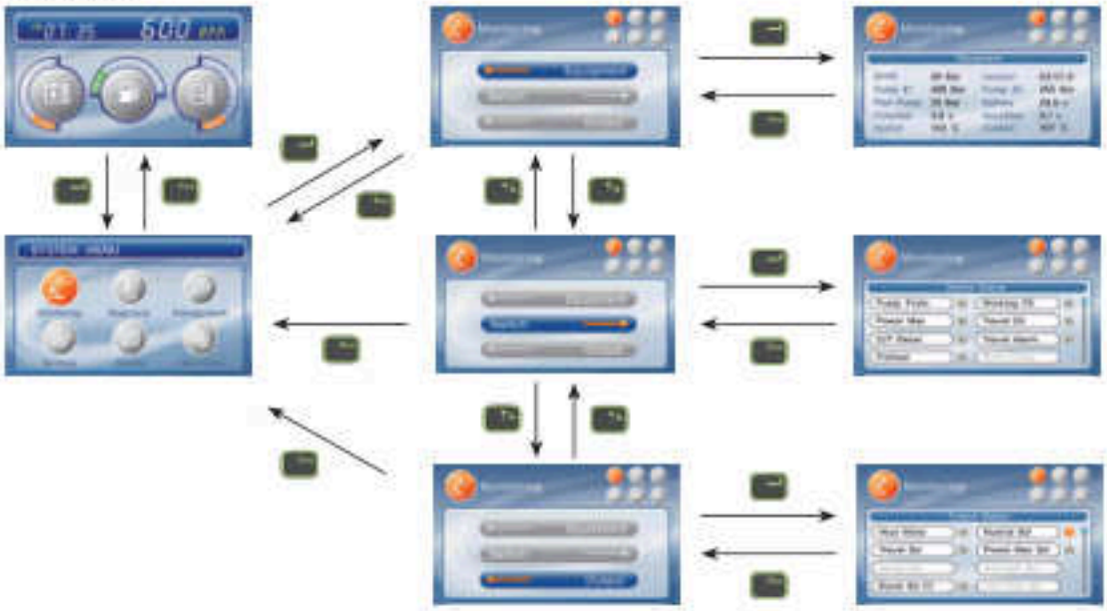




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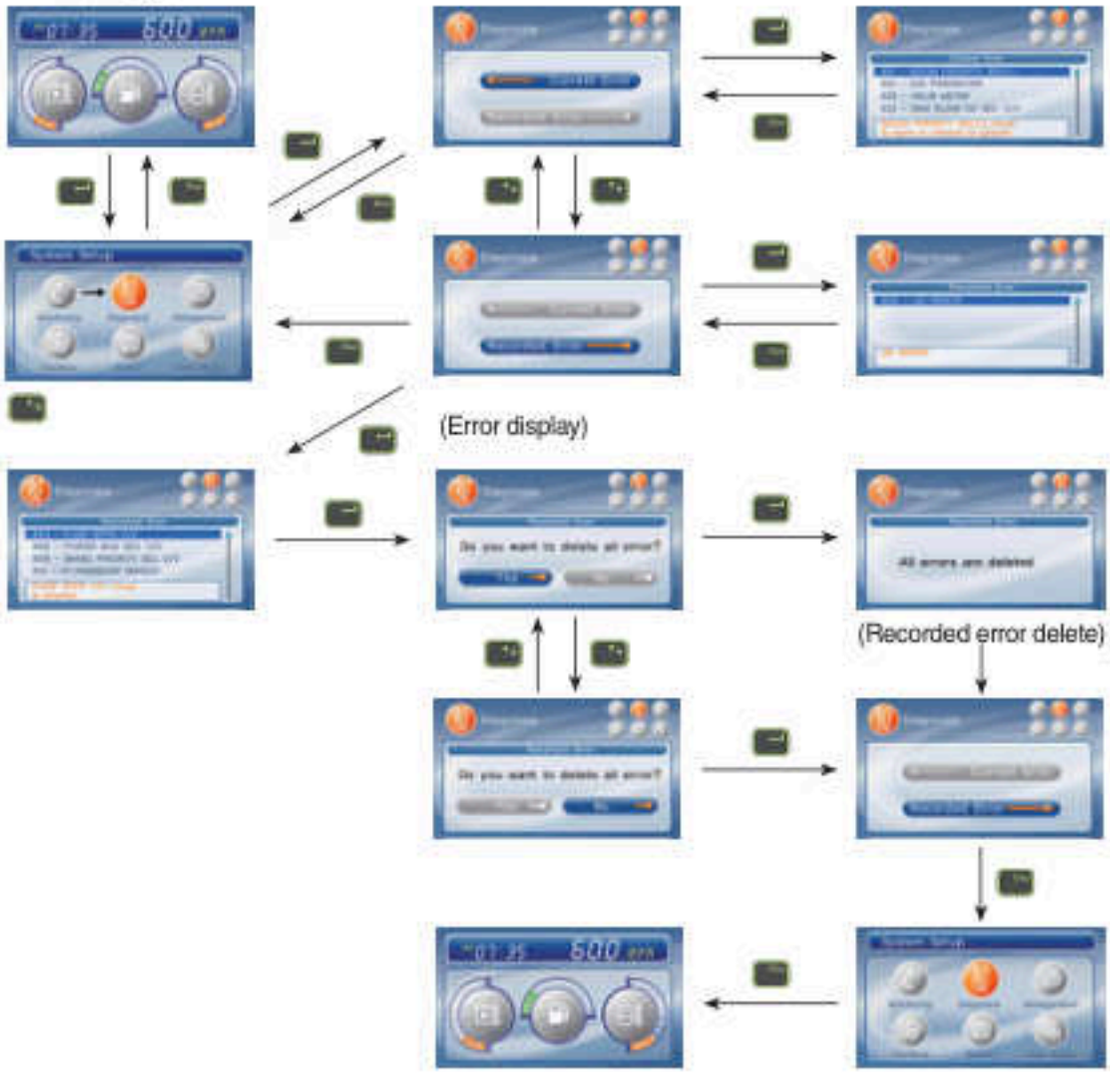
(2) Display map

① Monitoring

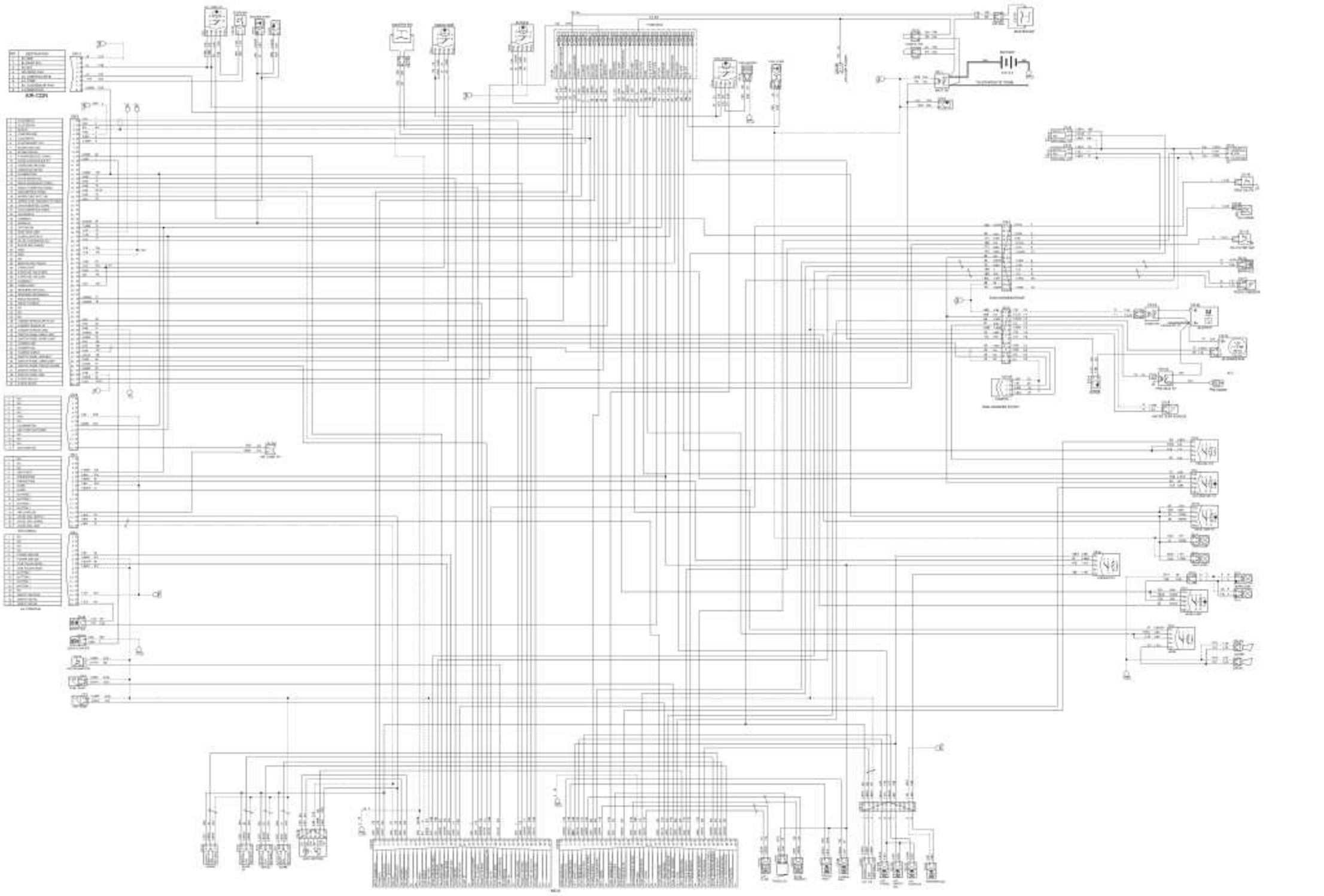


② Diagnosis

a. Protocol type 1



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