CRAWLER EXCAVATOR

SERVICE MANUAL

R140LC-9S

HYUNDAI

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8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Mitsubishi D04FD-TAA
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	102 × 130 mm
Piston displacement	4250cc (260cu in)
Compression ratio	16.5 : 1
Rated gross horse power (SAE J1995)	119 Hp (89 kW) at 2000 rpm
Maximum torque	45.4 kgf · m (328 lbf · ft) at 1700 rpm
Engine oil quantity	17.5 ℓ (4.6 U.S. gal)
Dry weight	420 kg (930 lb)
High idling speed	2100 ± 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	165 g/Hp · hr at 2000 rpm
Starting motor	24 V-5.0 kW
Alternator	24 V-50 A
Battery	2 × 12 V × 80 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 65 cc/rev
Maximum pressure	350 kgf/cm² (4980 psi) [380 kgf/cm² (5400 psi)]
Rated oil flow	2 × 126.8 ℓ/min (33.5 U.S. gpm / 27.9 U.K. gpm)
Rated speed	2000 rpm

[ ]: Power boost

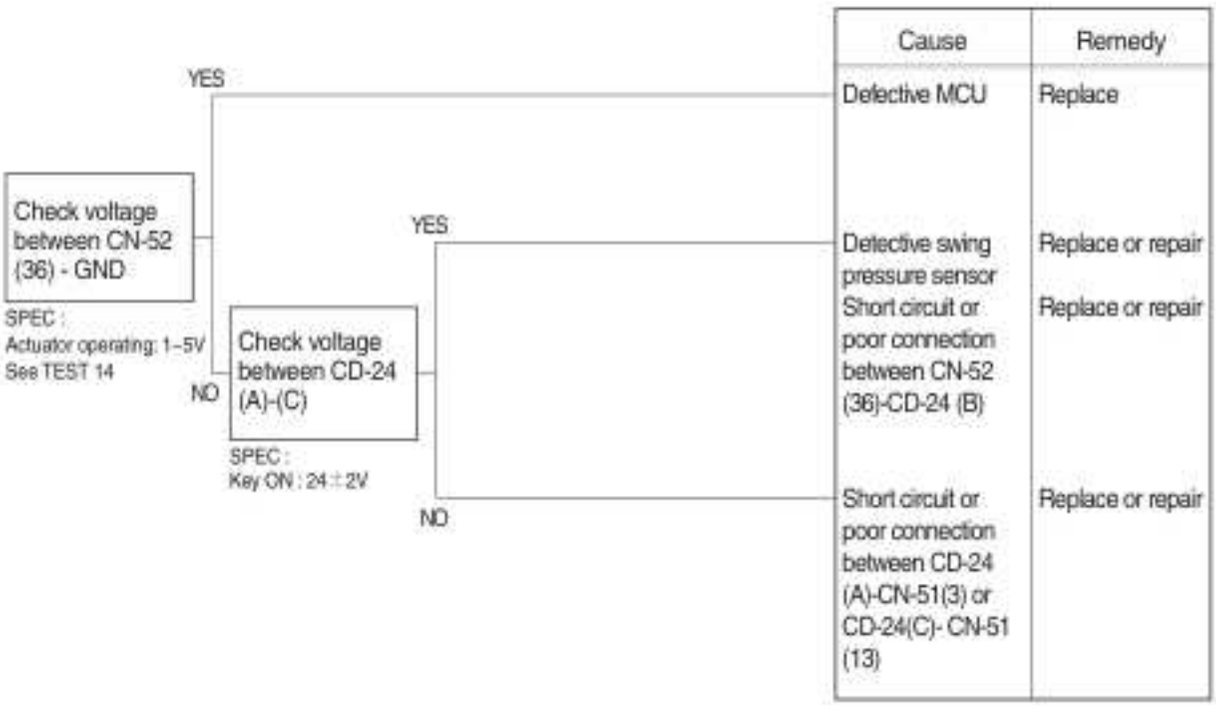
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9. MALFUNCTION OF SWING PRESSURE SENSOR

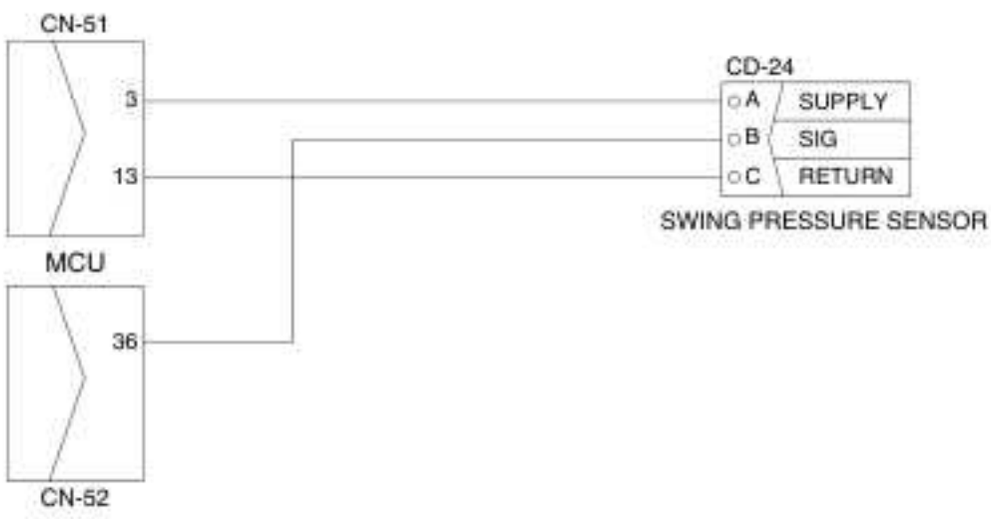
- Fault code : HCESPN 135, FMI 0~4

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

1) INSPECTION PROCEDURE



Wiring diagram



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10. MALFUNCTION OF BOOM PRIORITY EPPR VALVE

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

1) INSPECTION PROCEDURE



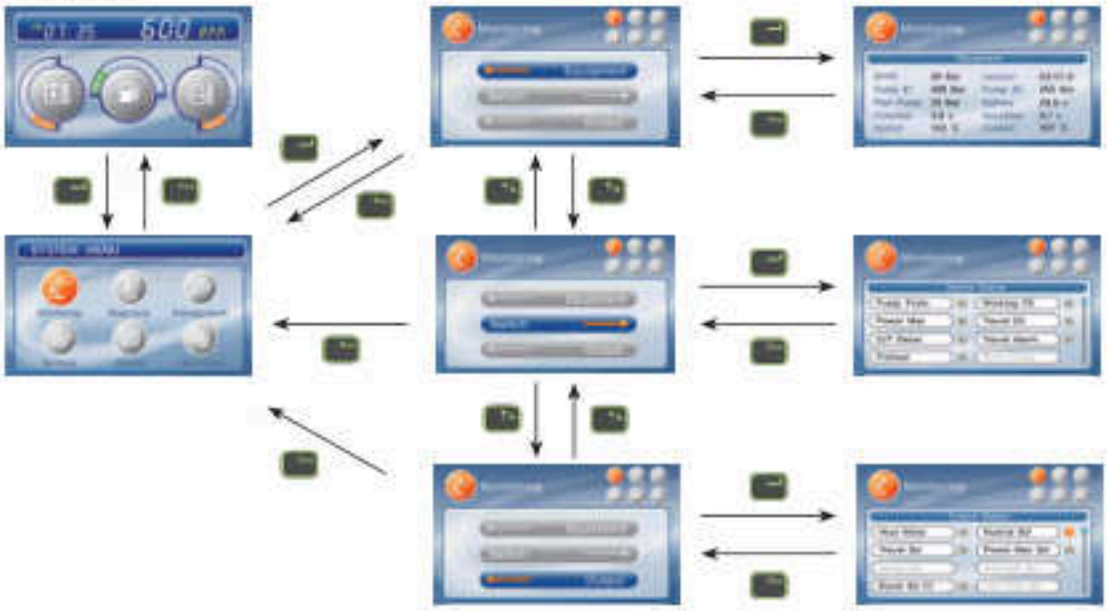
Wiring diagram



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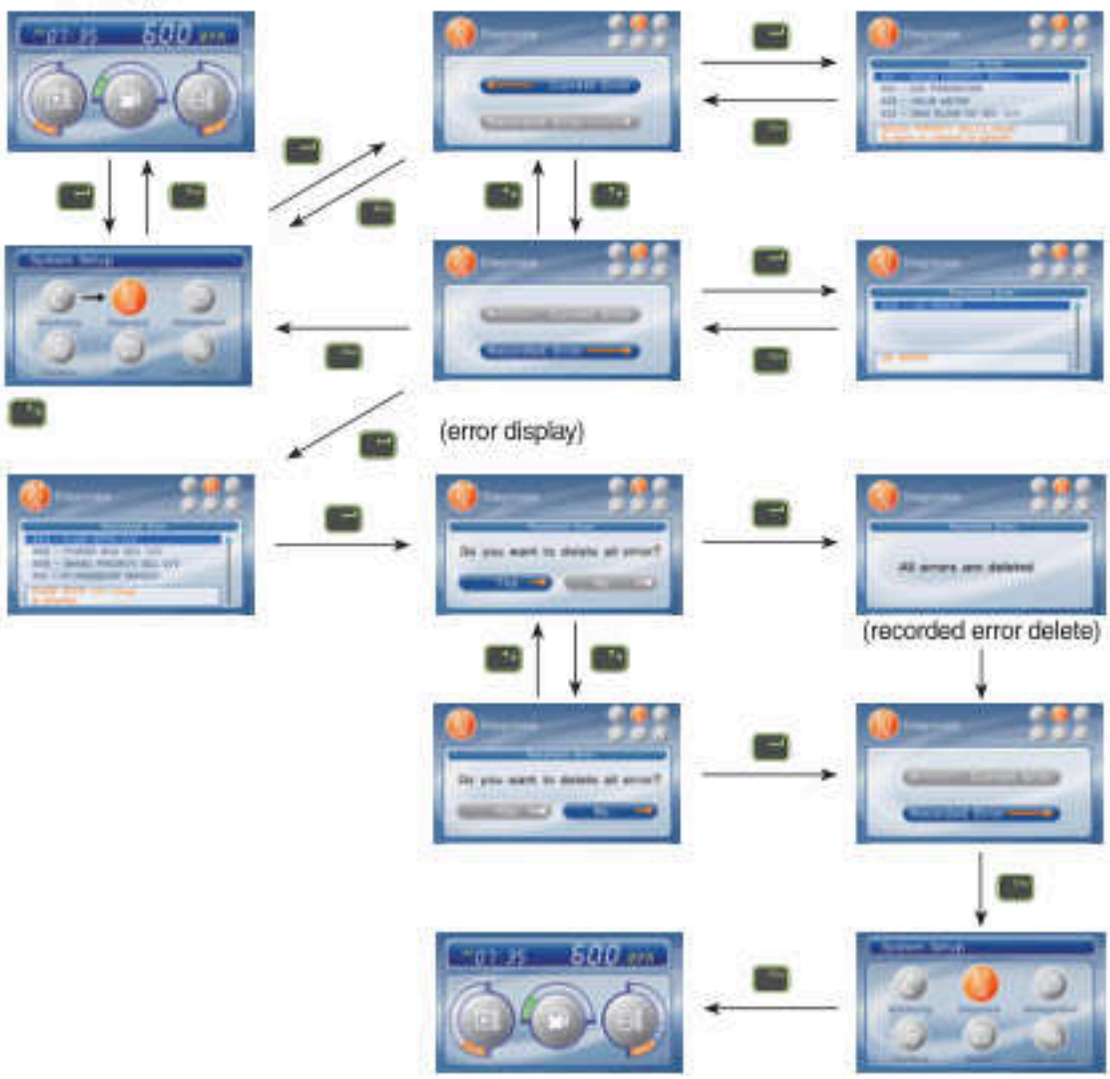
(2) Display map

① Monitoring



② Diagnosis

a. Protocol type 1



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(19) Shrink fit taper bearing (3) on drive shaft, complete drive shaft sub assembly.



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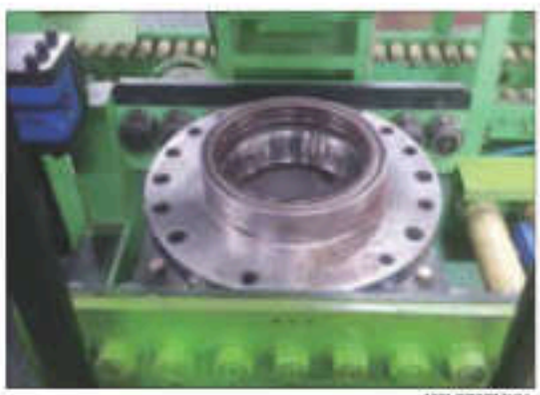
Casing assembly

(20) Press outer ring of the taper bearing in the casing (8) by using the jig.



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(21) Press in oil seal (27) by using the jig.
※ Be careful of the direction of the assembly.



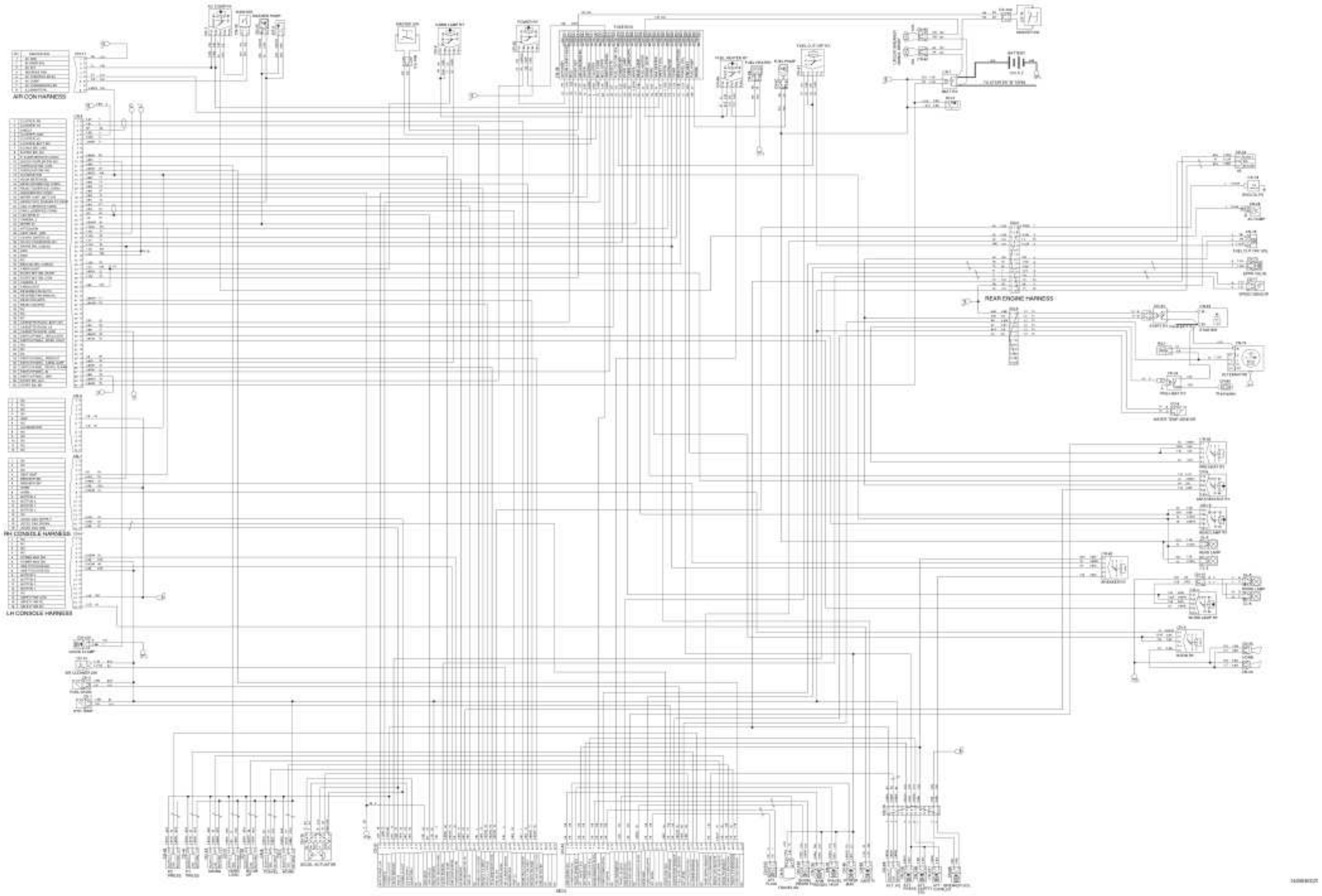
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(22) Assemble drive shaft sub assembly.
※ Be careful of damage of oil seal.



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