WHEELED EXCAVATOR

SERVICE MANUAL

R140W-9S

HYUNDAI

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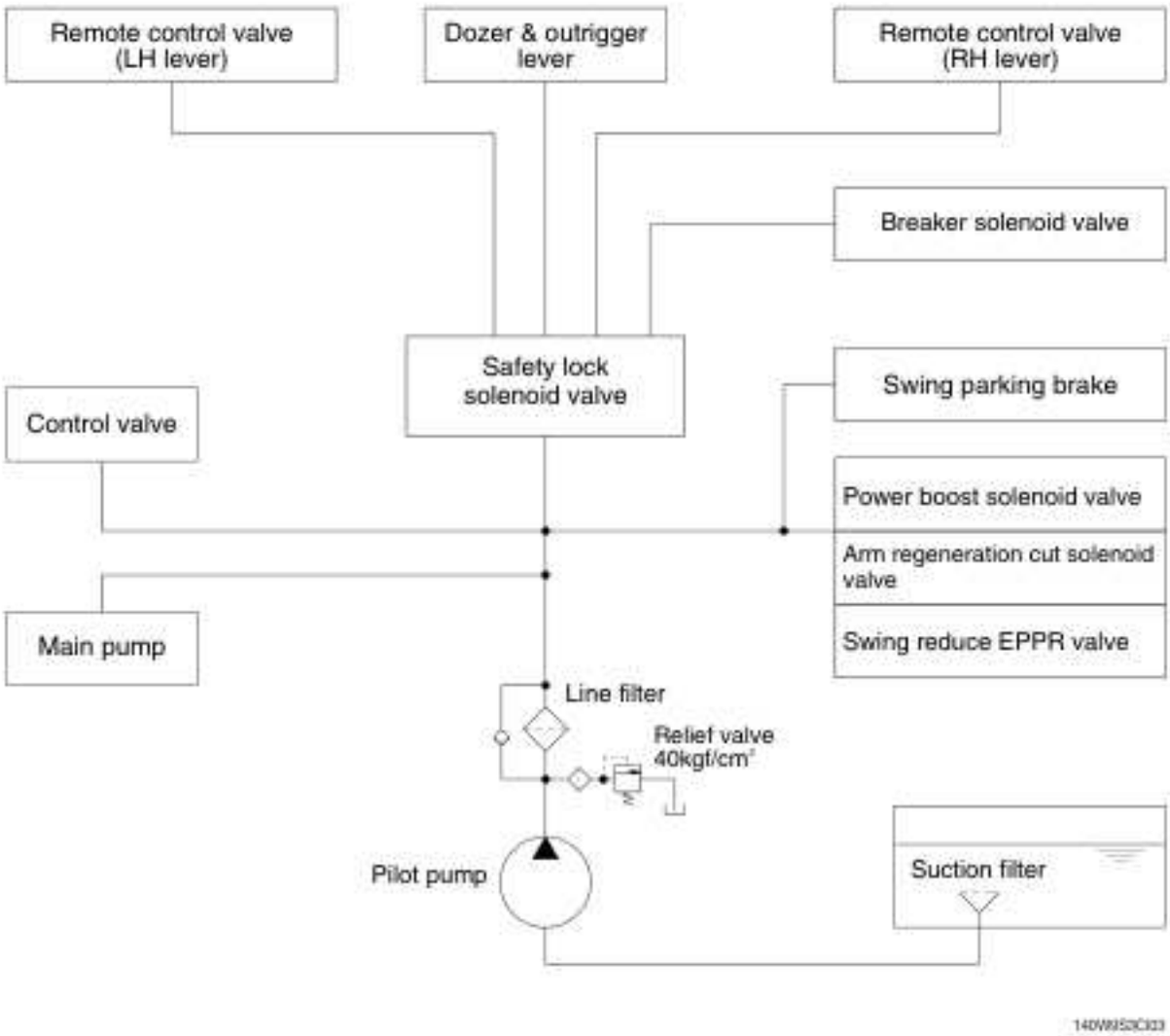
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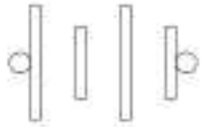
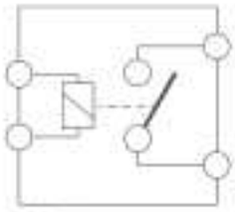
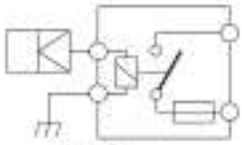
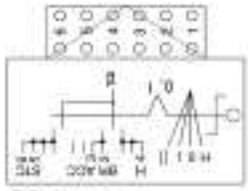
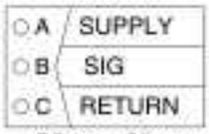
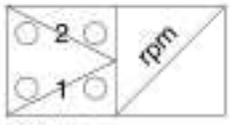
GROUP 3 PILOT CIRCUIT



The pilot circuit consists of suction circuit, delivery circuit and return circuit.
The pilot pump is provided with relief valve, receives the oil from the hydraulic tank through the suction filter.
The discharged oil from the pilot pump flows to the remote control valve, EPPR valve, solenoid valve assemblies, swing parking brake, main control valve and safety lock solenoid valve through line filter.

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GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

Part name	Symbol	Specifications	Check
Battery		12V × 80Ah (2EA)	▪ Check specific gravity 1.280 over : Over charged 1.280 – 1.250 : Normal 1.250 below : Recharging
Battery relay	 CR-1	Rated load : 24V 100A (continuity) 1000A (30seconds)	▪ Check coil resistance(M4 to M4) Normal : About 50 Ω ▪ Check contact Normal : ∞ Ω
Glow plug relay	 CR-24	24V 200A	▪ Check contact Normal : 0.942 Ω (For terminal 1-GND)
Start key	 CS-2	B-BR : 24V 1A B-ACC : 24V 10A B-ST : 24V 40A	▪ Check contact OFF : ∞ Ω (for each terminal) ON : 0 Ω (for terminal 1-3 and 1-2) START : 0 Ω (for terminal 1-5)
Pressure sensor	 CD-4 CD-6 CD-7 CD-31 CD-38 CD-42 CD-43 CD-44 CD-69 · CLUSTER TYPE 1 (CD-3, CD-4, CD-24, CD-32)	8–30V	▪ Check contact Normal : 0.1 Ω
Speed sensor	 CD-17	-	▪ Check resistance Normal : 300 Ω (For terminal 1, 2)

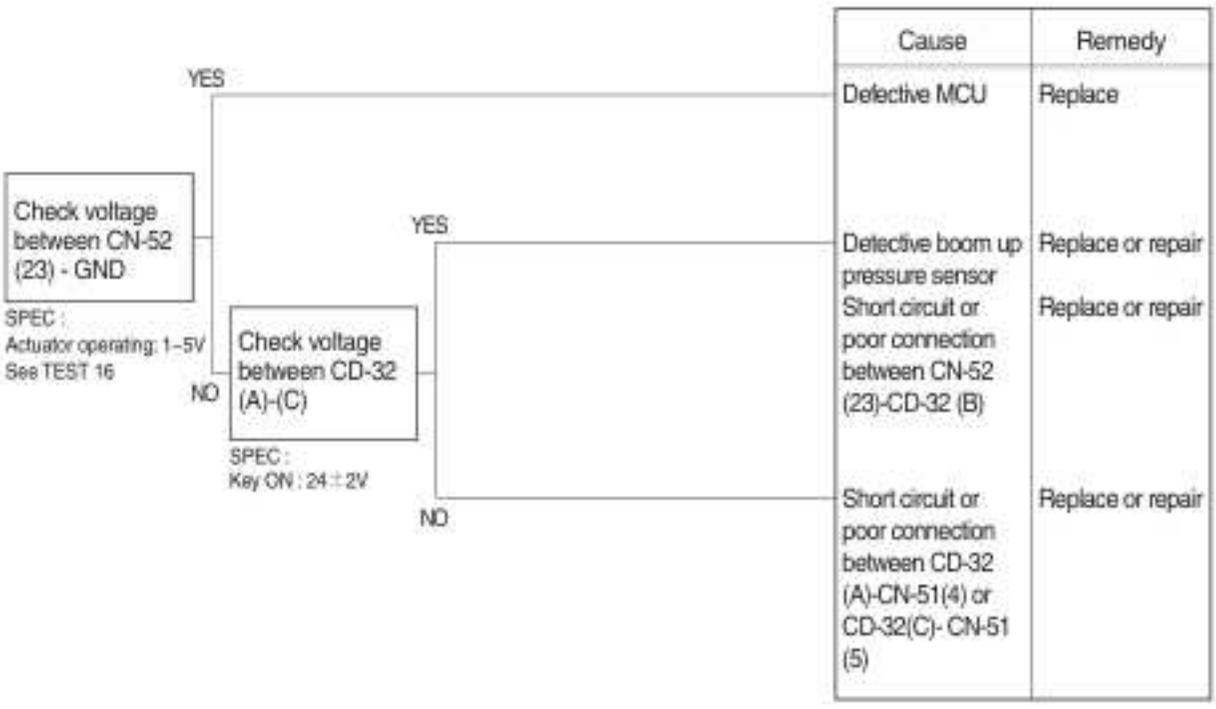
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10. MALFUNCTION OF BOOM UP PRESSURE SENSOR

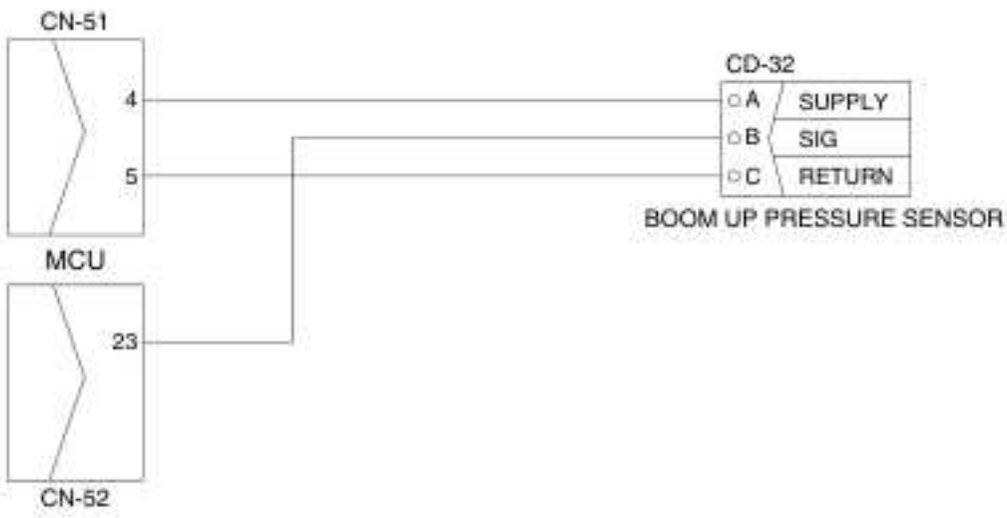
- Fault code : HCESPN 127, FMI 0~4

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

1) INSPECTION PROCEDURE



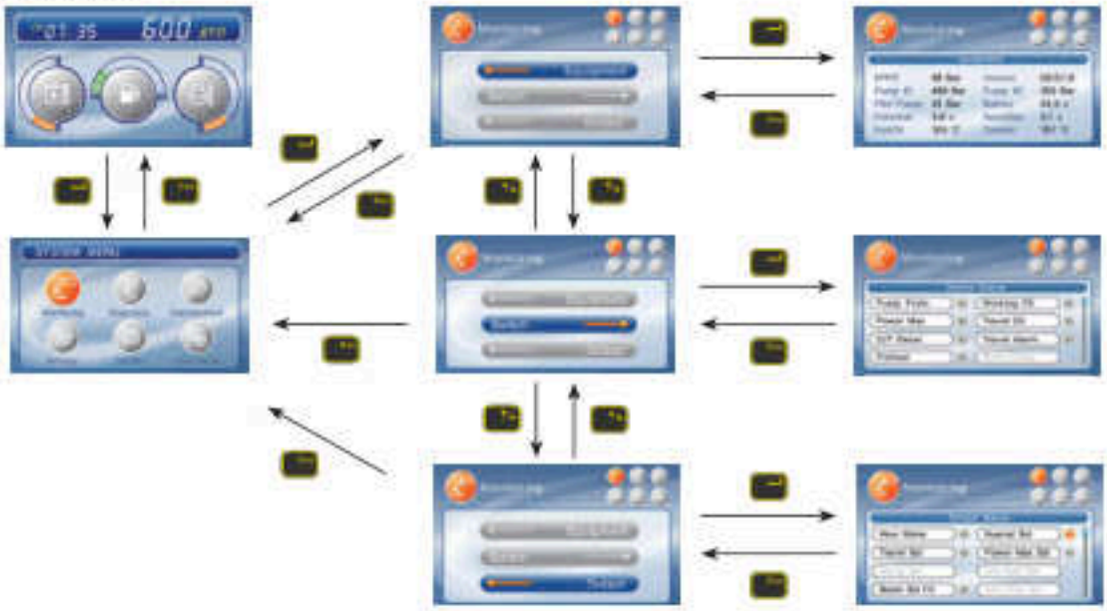
Wiring diagram



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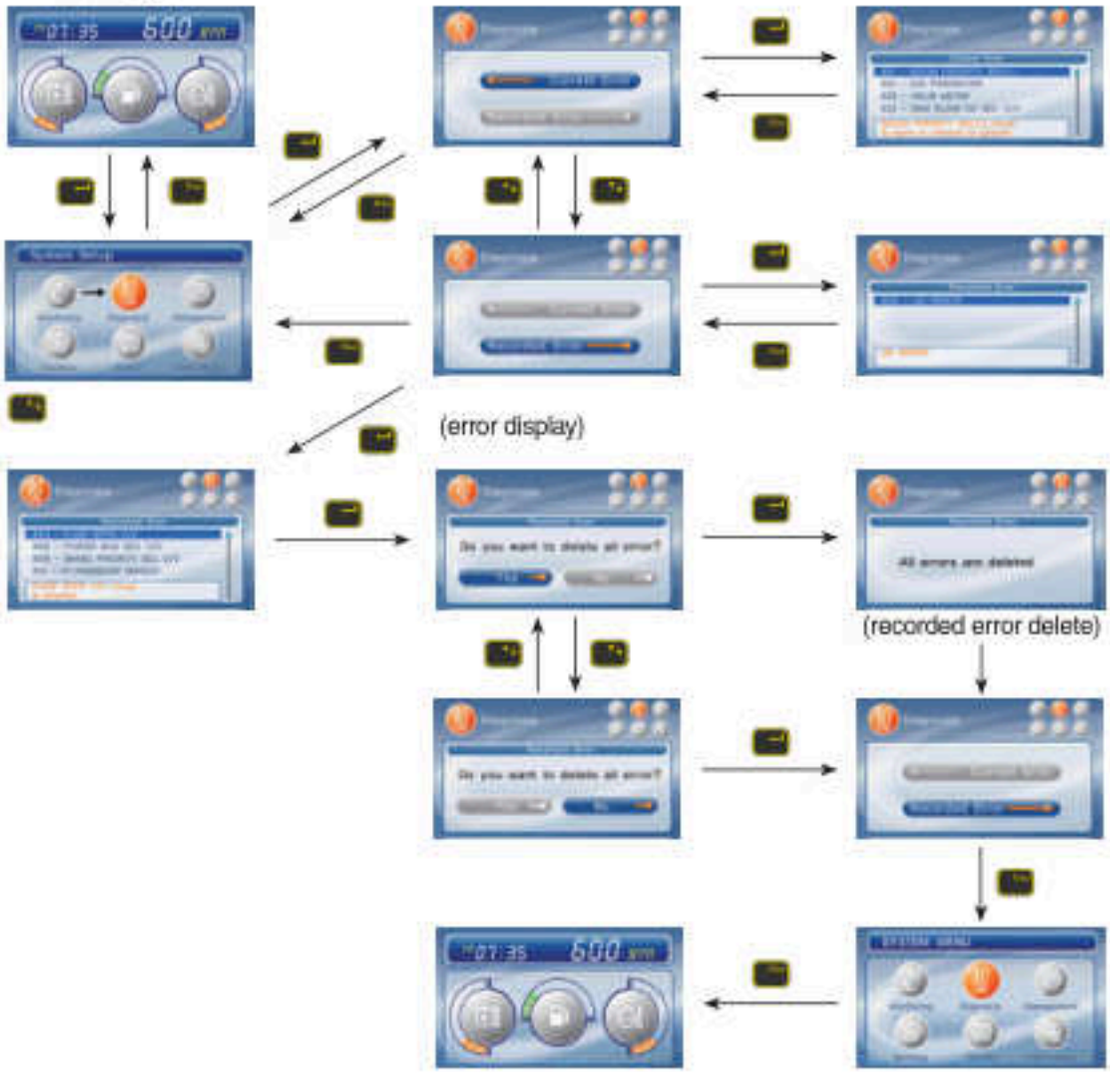
(2) Display map

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.



125LCR8SM102

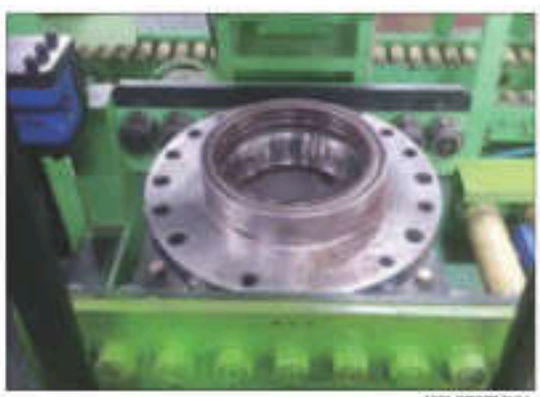
Casing assembly

(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.



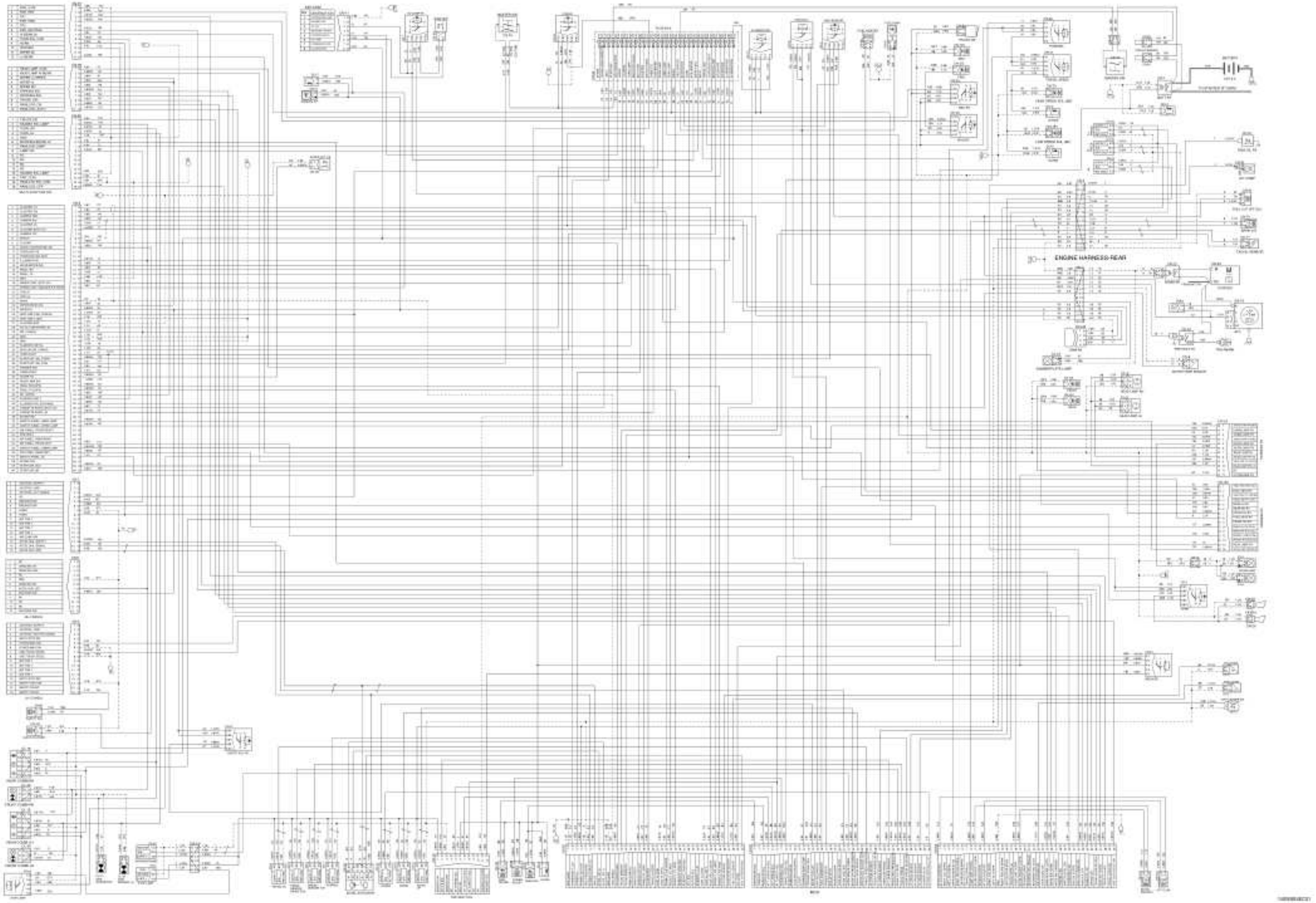
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(22) Assemble drive shaft sub assembly.
※ Be careful of damage of oil seal.



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