WHEELED EXCAVATOR

SERVICE MANUAL

R210W-9AMH

HYUNDAI

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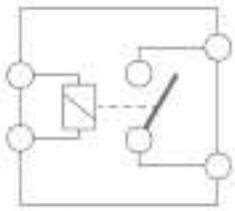
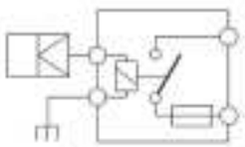
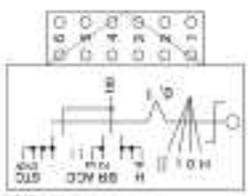
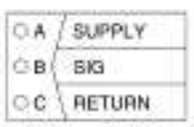
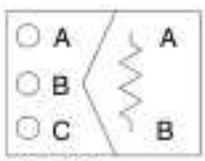
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GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

Part name	Symbol	Specifications	Check
Battery		12V × 100Ah (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 (30 seconds)	■ 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-3 CD-4 CD-5 CD-6 CD-7 CD-16 CD-24 CD-31 CD-32 CD-35 CD-38 CD-42 CD-43 CD-44 CD-69 CD-70 CD-71 CD-73 CD-74 CD-100	8–30V	■ Check contact Normal : 0.1 Ω
Resistor	 CN-173	4W	■ Check resistance A-B : 120 Ω

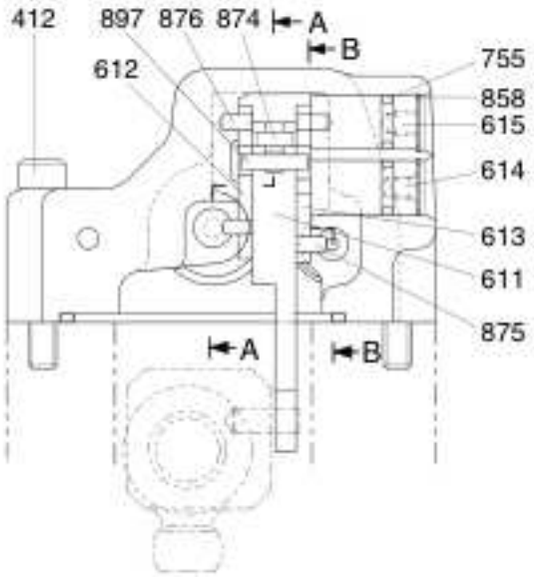
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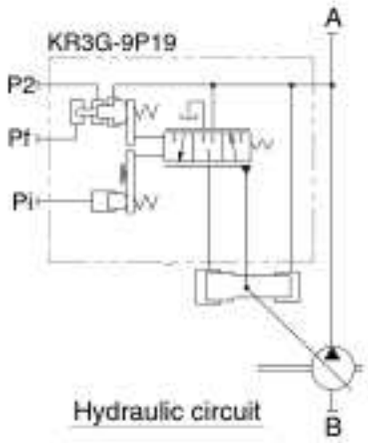
Fault code J1939 SPN J1939 FMI	Reason	Effect (only when fault code is active)
3727 5571 7	High Pressure Common Rail Fuel Pressure Relief Valve - Mechanical System Not Responding or Out of Adjustment. The fuel rail high-pressure relief valve has opened at a lower than expected pressure.	Possible low power or power interruption associated with relief valve reset.
3737 1675 31	Engine Starter Mode Overcrank Protection - Condition Exists. The starter motor has been temporarily disabled in order to prevent starter damage.	Starter operation is prohibited until the starter motor has adequately cooled.
3741 5571 0	Injector Metering Rail Number 1 Pressure - Data Valid But Above Normal Operating Range - Most Severe Level. The ECM has detected fuel pressure in the rail fuel was higher than the commanded pressure.	Possible engine noise associated with higher injection pressures (especially at idle or light load) or possible power interruption associated with high-pressure relief valve reset.
3765 441 3	Auxiliary Temperature Sensor Input 1 - Voltage Above Normal or Shorted to High Source. High signal voltage or open circuit detected at the OEM auxiliary temperature circuit.	None on performance.
3766 441 4	Auxiliary Temperature Sensor Input 1 Circuit - Voltage Below Normal or Shorted to Low Source. Low signal voltage detected at the OEM auxiliary temperature circuit.	None on performance.

※ Some fault codes are not applied to this machine.

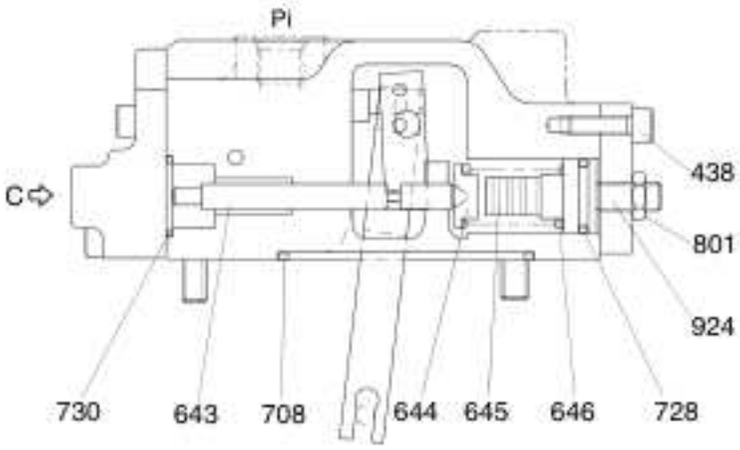
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5) REGULATOR (1/2)

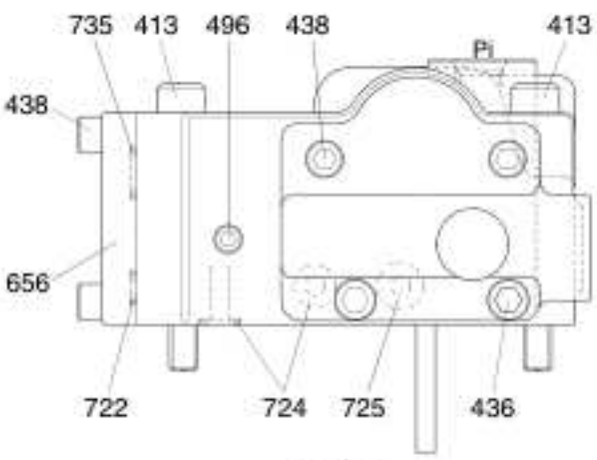




Hydraulic circuit



SECTION B-B



VIEW C

Port	Port name	Port size
A	Delivery port	3/4"
B	Suction port	2 1/2"
Pi	Pilot port	PF 1/4-15
Pl	Power shift pressure	-
P2	Companion delivery pressure	-

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3) ASSEMBLING PINION GEAR SUB ASSY

(1) Prepare drive shaft pinion gear vertical with ground.

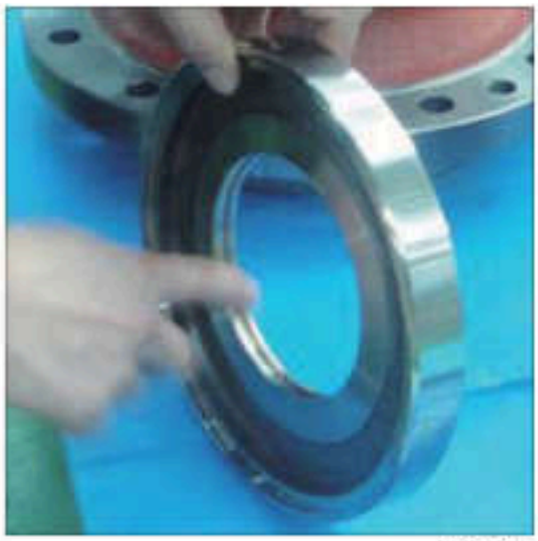


2209A03M21

(2) Fully apply grease (albania EP02) to O-ring groove of sleeve.

※ Be sure to maintain it vertical with ground when assembling it.

(3) Put O-ring into O-ring groove of sleeve. Fully apply grease on O-ring.



2209A03M22

(4) Assemble taper bearing and sleeve into drive shaft using press jig.
Use special jig for pressing. Leave no space between sleeve and taper bearing.



2209A03M23

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3) DISASSEMBLY

The figure in ( ) shown after the part name in the explanation sentence shows its number in the structure figures (8-31~32).

(1) Place control valve on working bench.

※ Disassemble it in clean place and pay attention not to damage flange faces and plate faces.



(2) Disassembling of main spools

· Travel (301), dozer (312), grapple (304), swing (305), option (308), arm 2 (306), boom 2 (307), swing priority (311).

① Loosen the hexagon the socket head bolts (273) and remove the spring cover (201, 202) and the O-ring (261).

· Hexagon key wrench : 6 mm

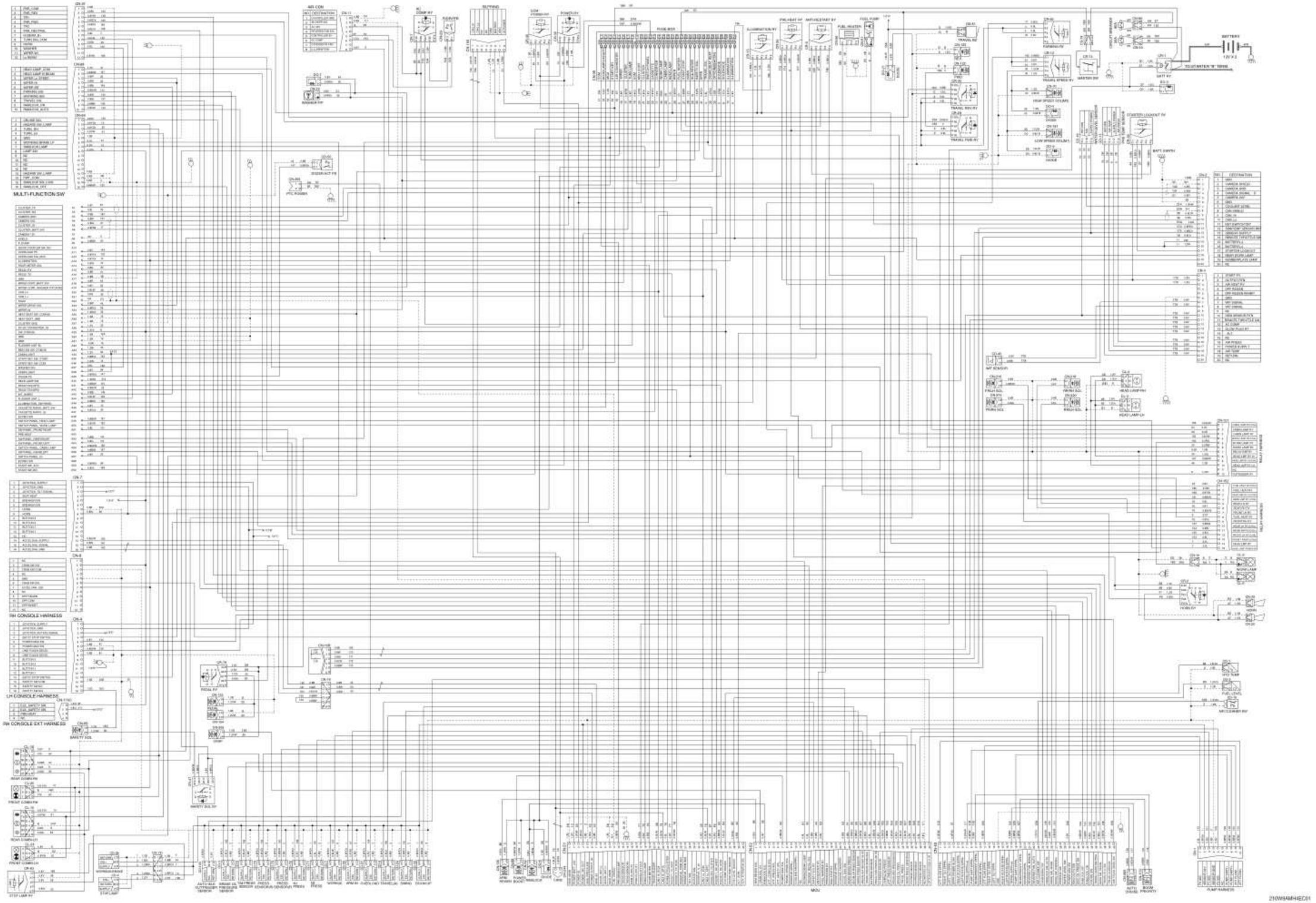


② Pull out the spool, spring, spring seats (322), stopper (335 or 339) and spacer bolt (336) in the spool assembly condition from the casing.

※ When pulling out the spool assembly from housing, pay attention not to damage the housing.



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