CRAWLER EXCAVATOR

SERVICE MANUAL

R300LC-9S

HYUNDAI

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SECTION 9 COMPONENT MOUNTING TORQUE

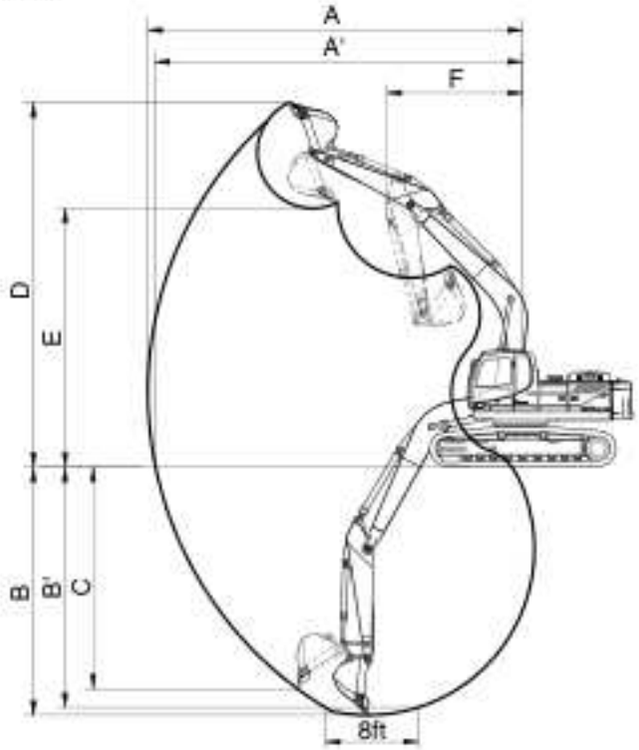
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3. WORKING RANGE

1) R300LC-9S, R300NLC-9S

· 6.25 m (20' 6") BOOM

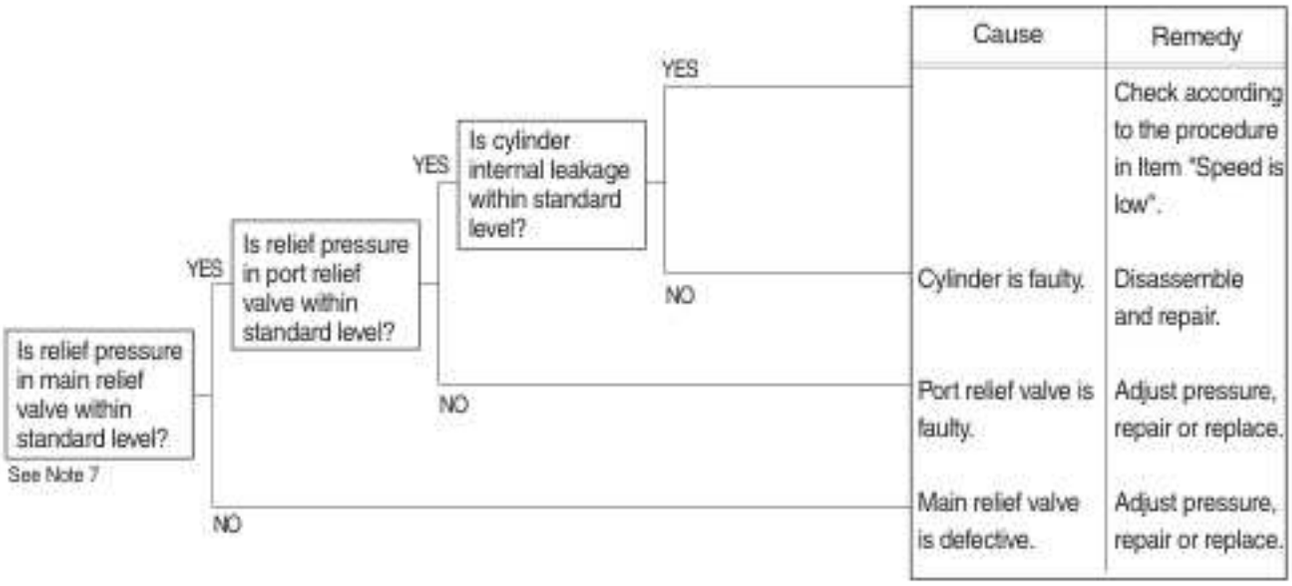


Description		2.10m (6' 11") Arm	2.50 m (8' 2") Arm	3.05 m (10' 0") Arm	3.75 m (12' 4") Arm
Max digging reach	A	10020 mm (32' 10")	10280 mm (33' 7")	10820 mm (35' 6")	11400 mm (37' 5")
Max digging reach on ground	A'	9820 mm (32' 3")	10080 mm (33' 1")	10620 mm (34' 10")	11220 mm (36' 10")
Max digging depth	B	6440 mm (21' 1")	6840 mm (22' 5")	7390 mm (24' 3")	8090 mm (26' 7")
Max digging depth (8 ft level)	B'	6240 mm (20' 6")	6630 mm (21' 9")	7200 mm (23' 7")	7920 mm (26' 0")
Max vertical wall digging depth	C	6000 mm (19' 8")	5850 mm (19' 2")	6380mm (20' 11")	7080 mm (23' 3")
Max digging height	D	10070 mm (33' 0")	10110 mm (33' 2")	10160 mm (33' 4")	10360 mm (34' 0")
Max dumping height	E	6940 mm (22' 9")	7030 mm (23' 1")	7110 mm (23' 4")	7310 mm (24' 0")
Min. swing radius	F	4380 mm (14' 4")	4260 mm (14' 0")	4230 mm (13' 11")	4190 mm (13' 9")
Bucket digging force	SAE	168.7 [183.1] kN	168.7 [183.1] kN	168.7 [183.1] kN	168.7 [183.1] kN
		17200 [18760] kgf	17200 [18760] kgf	17200 [18760] kgf	17200 [18760] kgf
		37920 [41370] lbf	37920 [41370] lbf	37920 [41370] lbf	37920 [41370] lbf
	ISO	192.2 [209.7] kN	192.2 [209.7] kN	192.2 [209.7] kN	192.2 [209.7] kN
		19600 [21380] kgf	19600 [21380] kgf	19600 [21380] kgf	19600 [21380] kgf
		43210 [47140] lbf	43210 [47140] lbf	43210 [47140] lbf	43210 [47140] lbf
Arm digging force	SAE	180.4 [195.9] kN	156.9 [170.4] kN	131.4 [142.7] kN	114.7 [124.6] kN
		18400 [19980] kgf	16000 [17370] kgf	13400 [14550] kgf	11700 [12700] kgf
		40570 [44050] lbf	35270 [38290] lbf	29540 [32070] lbf	25790 [28000] lbf
	ISO	190.3 [206.6] kN	163.8 [177.8] kN	136.3 [148] kN	119.6 [129.9] kN
		19400 [21060] kgf	16700 [18130] kgf	13900 [15090] kgf	12200 [13250] kgf
		42770 [46440] lbf	36820 [39980] lbf	30640 [33270] lbf	26900 [29210] lbf

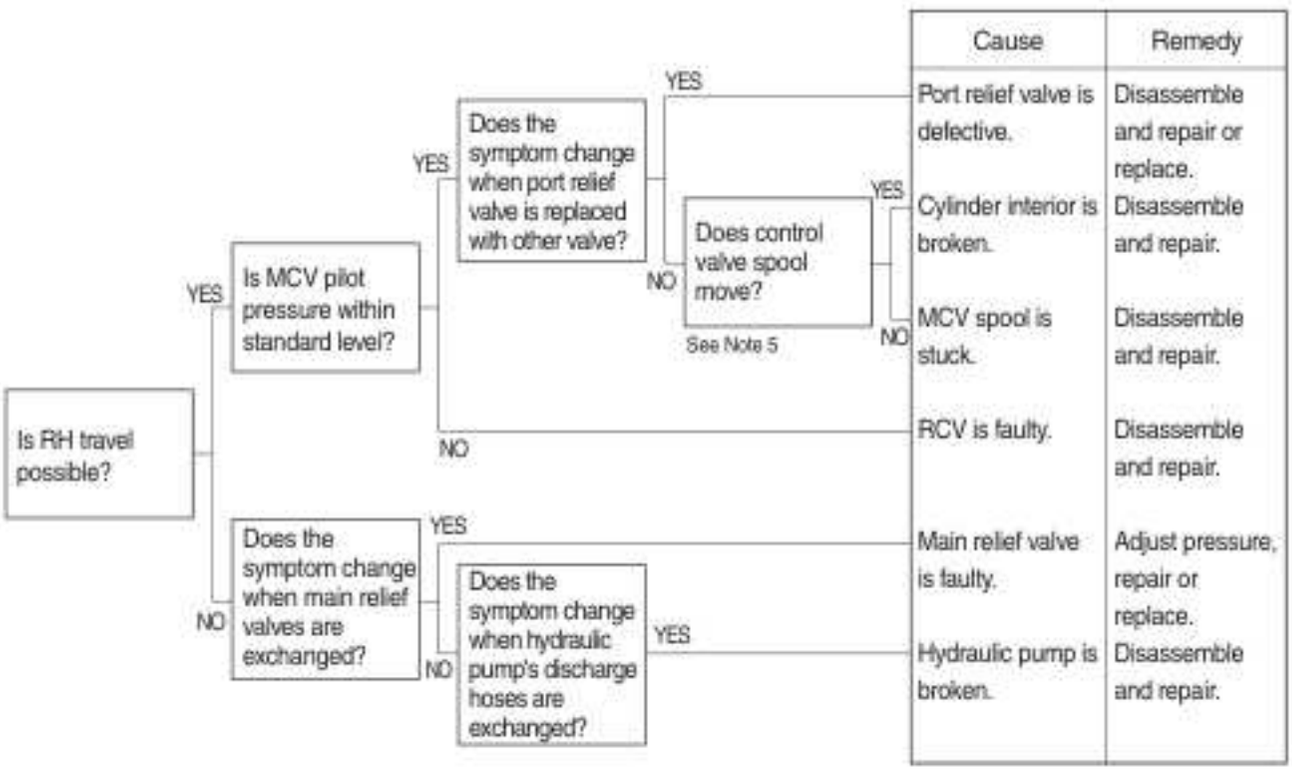
[ ] : Power boost

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4) BOOM, ARM OR BUCKET POWER IS WEAK



5) ONLY BUCKET OPERATION IS TOTALLY IMPOSSIBLE



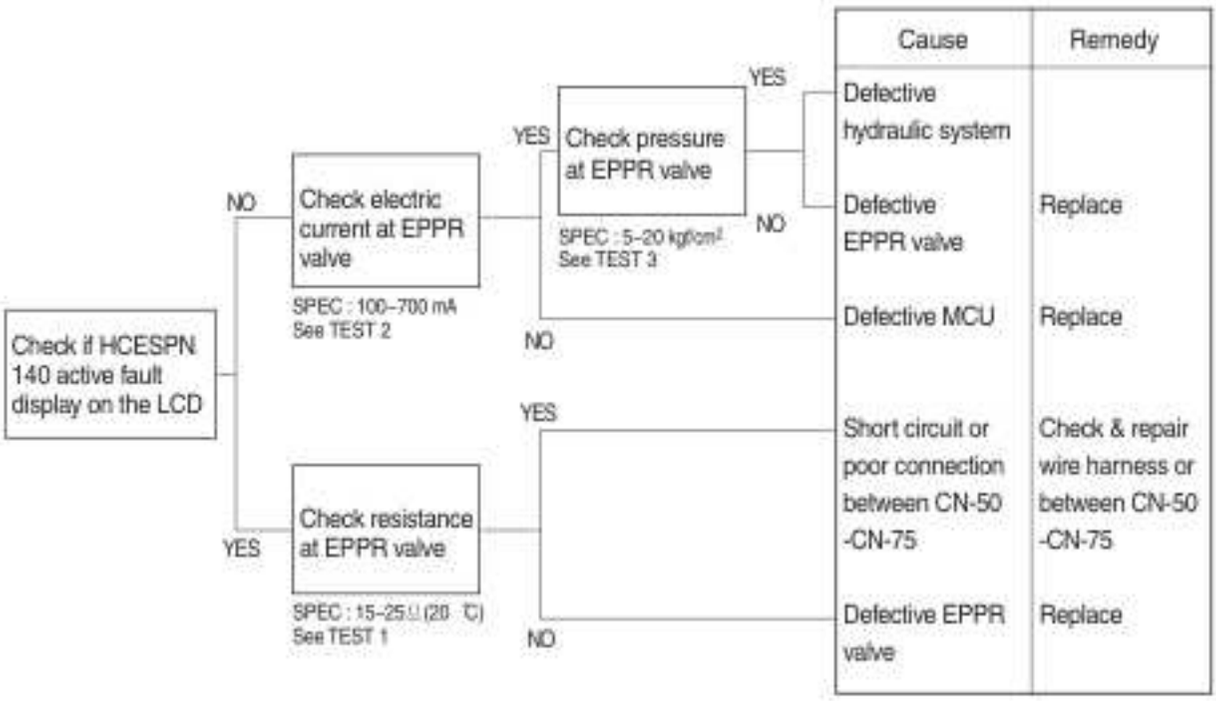
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■ MECHATRONICS SYSTEM (CLUSTER TYPE 2)

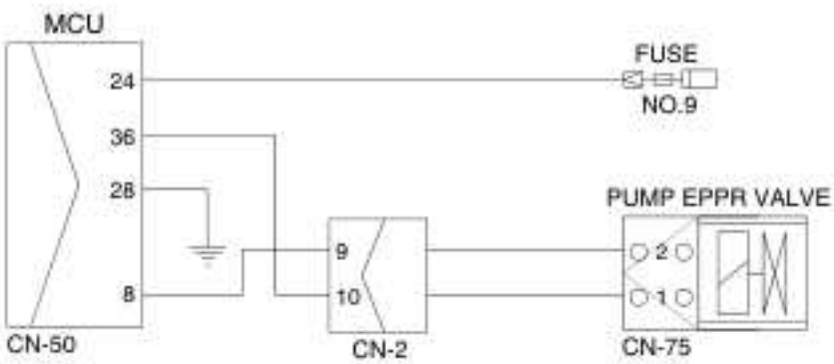
1. ALL ACTUATORS SPEED ARE SLOW

※ Boom, Arm, Bucket, Swing and travel speed are slow, but engine speed is good.
※ Spec : P-mode 2100 ± 50 rpm S -mode 2000 ± 50 rpm E-mode 1900 ± 50 rpm
※ Before carrying out below procedure, check all the related connectors are properly inserted and fault code on the cluster.

1) INSPECTION PROCEDURE

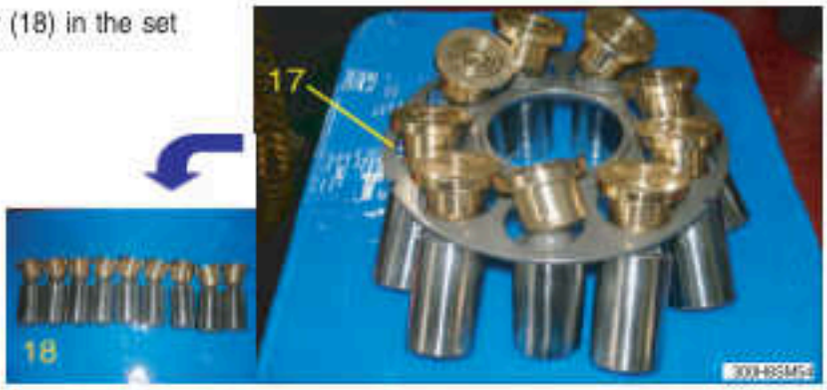


Wiring diagram



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⑧ Assemble the piston assy (18) in the set plate (17).



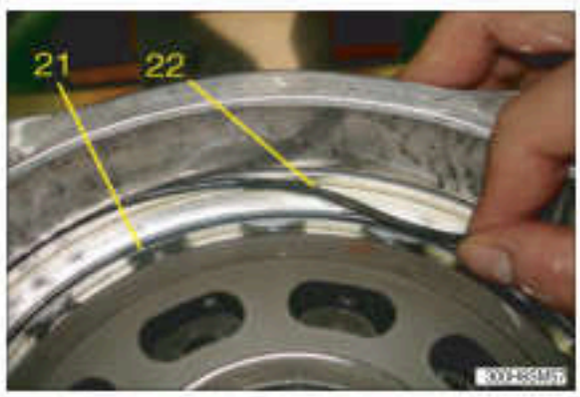
⑨ Assemble the piston assy (18) in the cylinder block (11).
Apply the clean hydraulic oil in the piston assy and hole of cylinder block (11) before assemble the piston assy (18)



⑩ The workbench horizontally, assemble the cylinder block assy in the body (1) and insert the O-ring (21, 22).



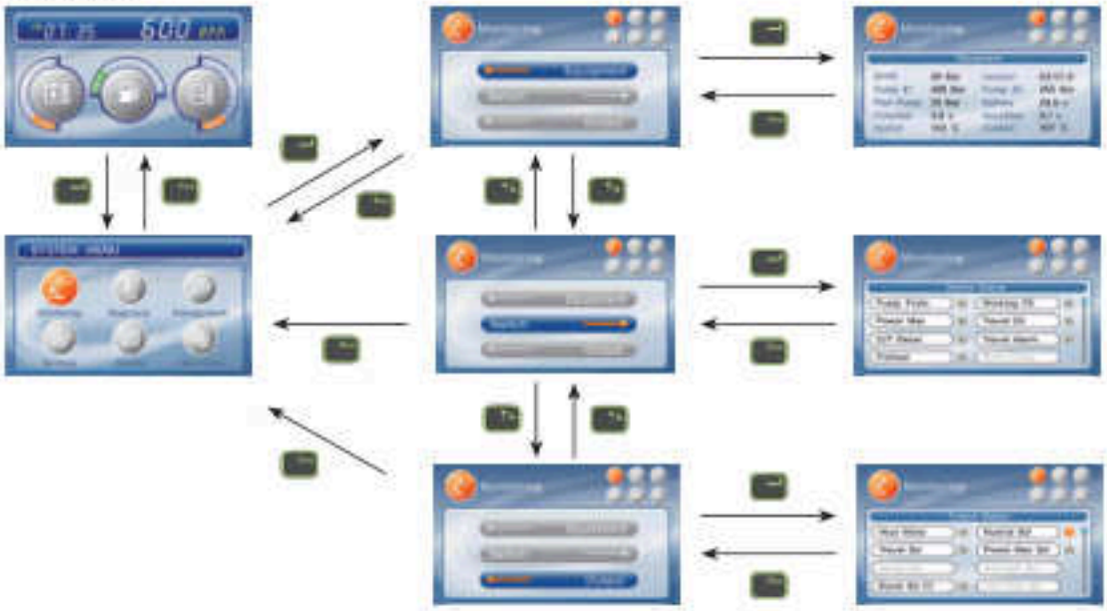
⑪ Insert the O-ring (21, 22) in the body (1).



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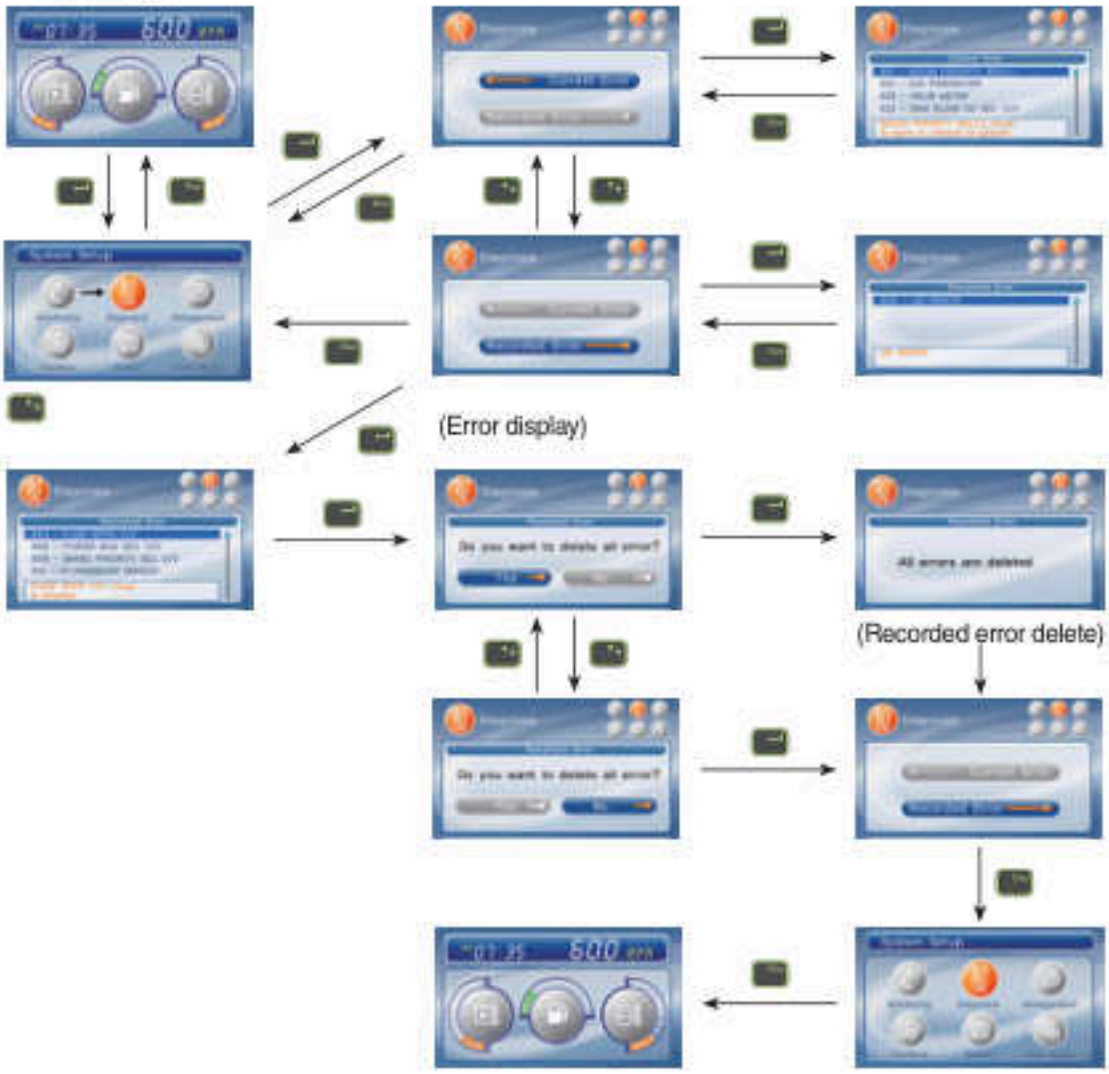
(2) Display map

① Monitoring



② Diagnosis

a. Protocol type 1



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