CRAWLER EXCAVATOR

SERVICE MANUAL

R250LC-7

HYUNDAI

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4. WEIGHT

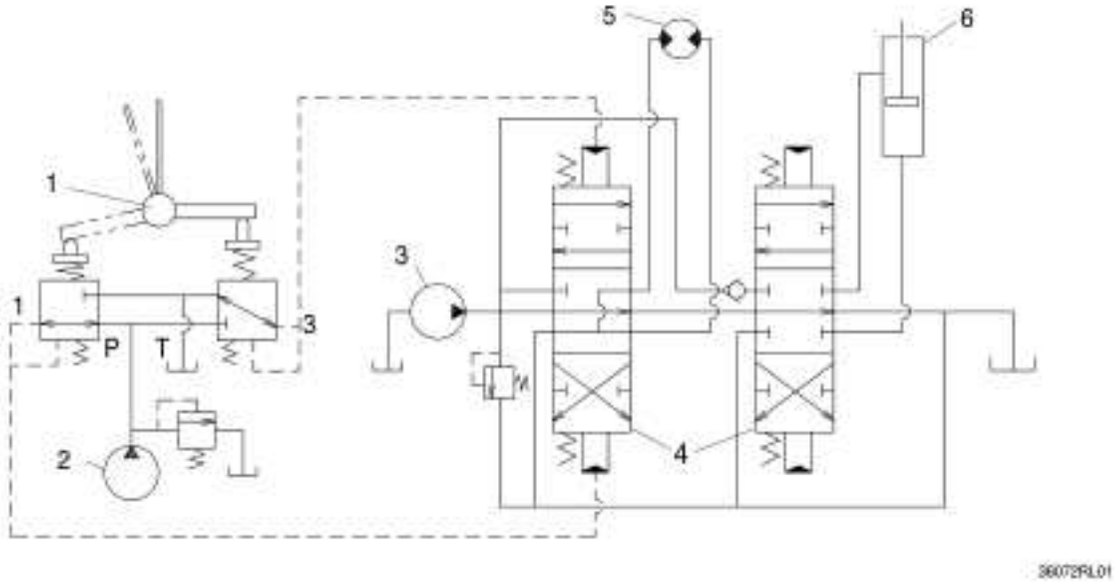
Item	R250LC-7		R250NLC-7	
	kg	lb	kg	lb
Upperstructure assembly	5520	12170	←	←
Main frame weld assembly	2190	4800	←	←
Engine assembly	530	1170	←	←
Main pump assembly	120	260	←	←
Main control valve assembly	200	440	←	←
Swing motor assembly	330	730	←	←
Hydraulic oil tank assembly	190	420	←	←
Fuel tank assembly	180	400	←	←
Counterweight	4600	10140	←	←
Cab assembly	310	680	←	←
Lower chassis assembly	9880	21780	9780	21560
Track frame weld assembly	3070	6760	2965	6540
Swing bearing	360	800	←	←
Travel motor assembly	280	620	←	←
Turning joint	50	110	←	←
Track recoil spring and idler	300	660	←	←
Idler	170	370	←	←
Carrier roller	20	45	←	←
Track roller	50	110	←	←
Track-chain assembly (600mm standard triple grouser shoe)	1500	3310	←	←
Front attachment assembly(5.85m boom, 3.05m arm,1.08m³ SAE heaped bucket)	4960	10930	←	←
5.85m boom assembly	1970	4340	←	←
3.05m arm assembly	1000	2200	←	←
1.08m³ SAE heaped bucket	890	1960	←	←
Boom cylinder assembly	240	530	←	←
Arm cylinder assembly	340	750	←	←
Bucket cylinder assembly	220	490	←	←
Bucket control rod assembly	110	240	←	←

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3) OPERATION

The operation of the pilot valve will be described on the basis of the hydraulic circuit diagram shown below and the attached operation explanation drawing.

The diagram shown below is the typical application example of the pilot valve.



1	Pilot valve	3	Main pump	5	Hydraulic motor
2	Pilot pump	4	Main control valve	6	Hydraulic cylinder

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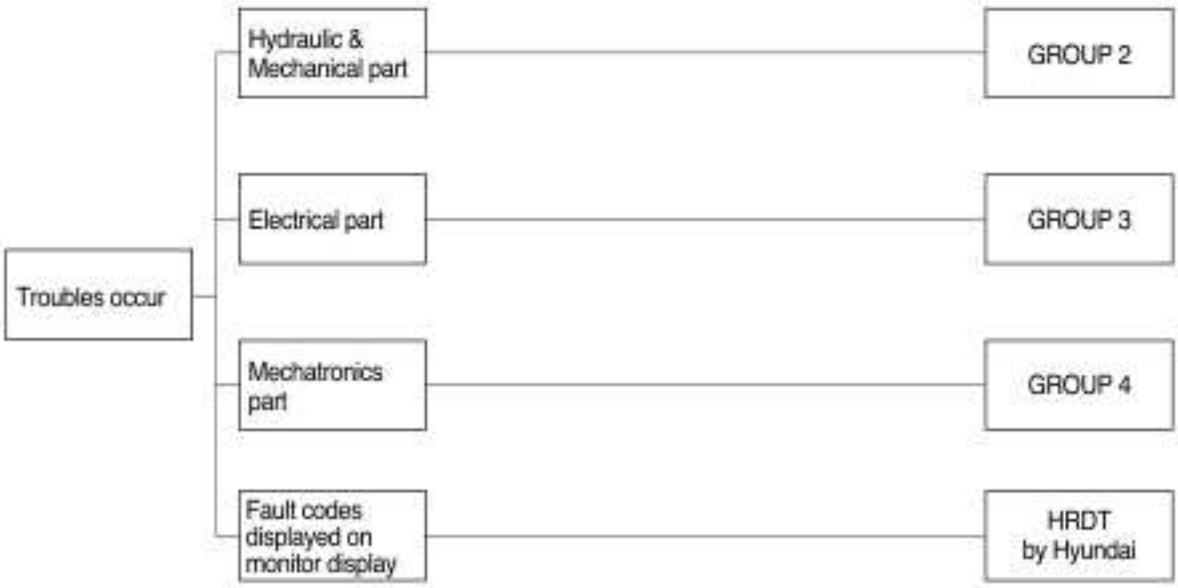
SECTION 6 TROUBLESHOOTING

GROUP 1 BEFORE TROUBLESHOOTING

1. INTRODUCTION

When a trouble is occurred in the machine, this section will help an operator to maintain the machine with easy.

The trouble of machine is parted Hydraulic & Mechanical system, Electrical system and Mechatronics system. At each system part, an operator can check the machine according to the troubleshooting process diagram.



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(4) Measure dimension **D** of hold flange(3).

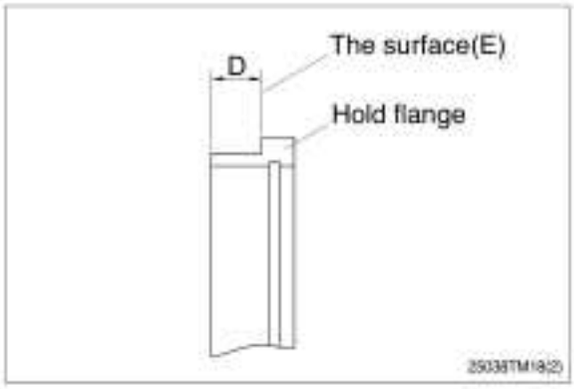
(5) Based on the results obtained from step (2) through(4), adjust hold flange(3) as follows.(Dimension **C** is the required clearance of hold flange):

① If measured dimension **D** of hold flange (3) is smaller than the required value:
Grind down surface **E** of hold flange(3) with a lathe or other machine so that dimension **D** equals the required value.

② If measured dimension **D** of hold flange (3) is within the tolerance of the required value:
Use hold flange(3) as it is.

③ If measured dimension **D** of hold flange (3) is greater than the required value:
Use a new spindle assembly.
Dimension **D** of a new hold flange(3) allows for adjustment.

(6) Remove the ball bearings pressure adjustment jig from spindle(2).



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⑤ Install pinion gear(25).
Be careful to check right direction of pinion gear when installing.



⑥ Put lock plate(26) and lock washer(27), matching tap holes and tighten hex bolt (28).
- Tightening torque : 24kgf· m(173lbf· ft)

※ When installing hex bolt(28), be sure to spread loctite 262.



⑦ To lock the bolts(28), bend the lock washer(27) to cover over the bolt head using jig.



⑧ Reverse case(1) and press to insert oil seal(7) by using jig after spreading grease oil on the outside ring of the seal.
Coat grease oil slightly on the lip surface of the oil seal to prevent any scratch when installing.



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(8) Negative control relief valve

① Remove plug(551).

- Hexagon wrench : 12mm



21078VC15

② Remove poppet(611), spring(621) and damping rod(631).



21078VC16

(9) Swing logic valve and check valve

① Loosen hexagon socket head bolts(251) and remove logic valve(251) and take check valve(254).

② Remove plug(551) or (552) and take out poppet(511) or (515, 516) and spring (521) or (523).

- Hexagon wrench : 6, 12mm



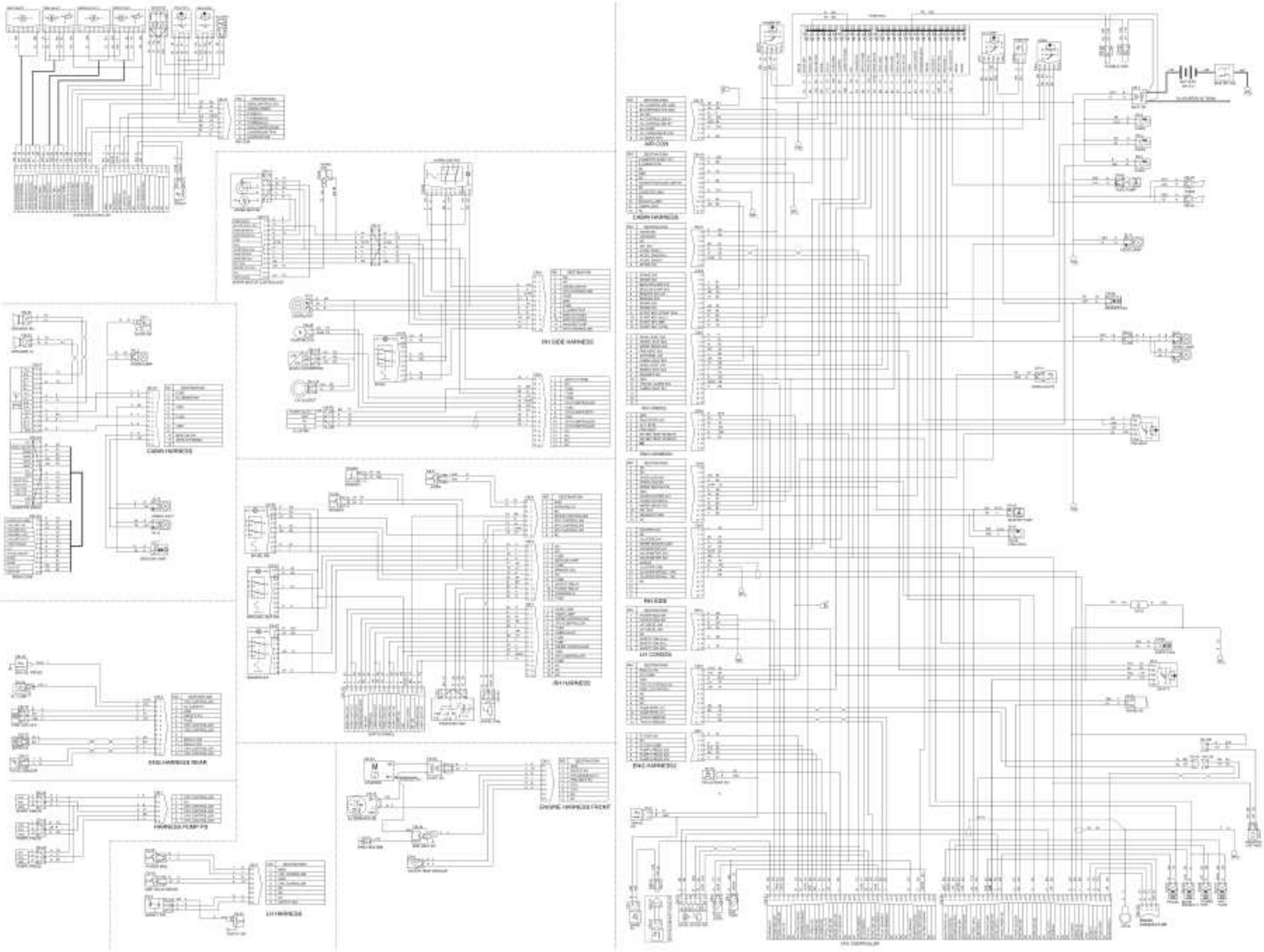
21078VC17

(10) Boom priority valve

Loosen hexagon socket head bolts(104) and remove boom priority valve(104).

- Hexagon wrench : 10mm

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