SHOP MANUAL

WEBM001702

PC95R-2

HYDRAULIC EXCAVATOR

SERIAL NUMBER

PC95R-2 21D5210001 and up

PC95R-2 21D5220001 and up

KOMATSU®

Utility

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10 STRUCTURE AND FUNCTION

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WEIGHT TABLE

⚠ This weight table is a guide for use when transporting or handling components.

Unit: kg

Machine model	PC95R-2
Engine assembly	350
Radiator - exchanger	37
Hydraulic tank (without hydraulic oil)	62
Fuel tank (without fuel)	43
Revolving frame	1110
Counterweight	1150
Swing circle	124
Swing machinery assembly	87
Main pump + gear pump	97
Cabin	220
Seat	32
Seat support	14.5
Platform	51
Control valve	60
Track frame assembly: • Idler assembly • Sprocket • Final drive • Track roller • Carrier roller	1600
Track - shoe assembly (standard)	976x2
Engine hood	36
Front hood	27
Swivel joint	36
Swing bracket	230
Boom	300
1st boom	292
2nd boom	195
Arm (L=1600)	134
Arm (L=1850)	155
Arm (L=2300)	198
Blade	282
Boom cylinder	117
1-piece boom cylinder	58x2
Arm cylinder	100
Bucket cylinder	89
Boom swing cylinder	90
Blade cylinder	64

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REMOVAL OF PUMP GROUP

⚠ Lower the work equipment until it is resting on the ground and switch off the engine.

Release residual pressures from all circuits.
(For details, see «20. TESTING AND ADJUSTMENTS»).

- Drain the hydraulic oil.

  Quantity of oil: approx. 74 ℓ

1 - Remove the engine hood.
(For details, see «REMOVAL OF ENGINE HOOD»).

2 - Remove left and centre rear guards.

3 - Disconnect the suction flanges and all delivery pipes from the pumps (1) and (2).

★ Mark the position of Load Sensing, Mode System and servo-control feed pipes in order to avoid mixing them up during installation.

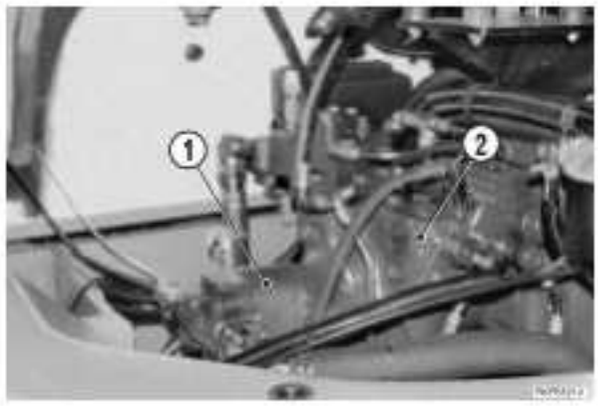
4 - Remove the air filter (3) together the support.

5 - Attach the pump group to a hoist keeping the cables under slight tension.

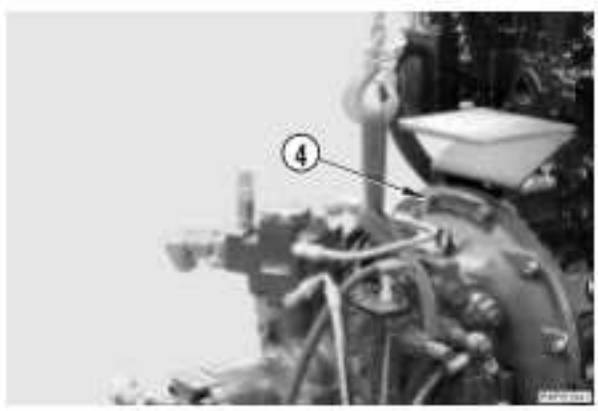
★ Pass a harness under the gear pump to prevent tilting of the unit.

6 - Pull out the screws (4) and remove the pump group; disengage the group from the coupling joint shifting it to one side 1

Pump group: approx. 97 kg







INSTALLATION OF PUMP GROUP

- To install, reverse the removal procedure.

1

★ Coat the coupling surfaces thinly.

Coupling surfaces: ASL800050

Pump check screws: Loctite 262

Pump check screws: 50±5 Nm

1 - Fill the hydraulic oil tank to maximum level.

⚠ While filling, bleed air from the main pump piston.
(For details, see «20. TESTING AND ADJUSTMENTS»).

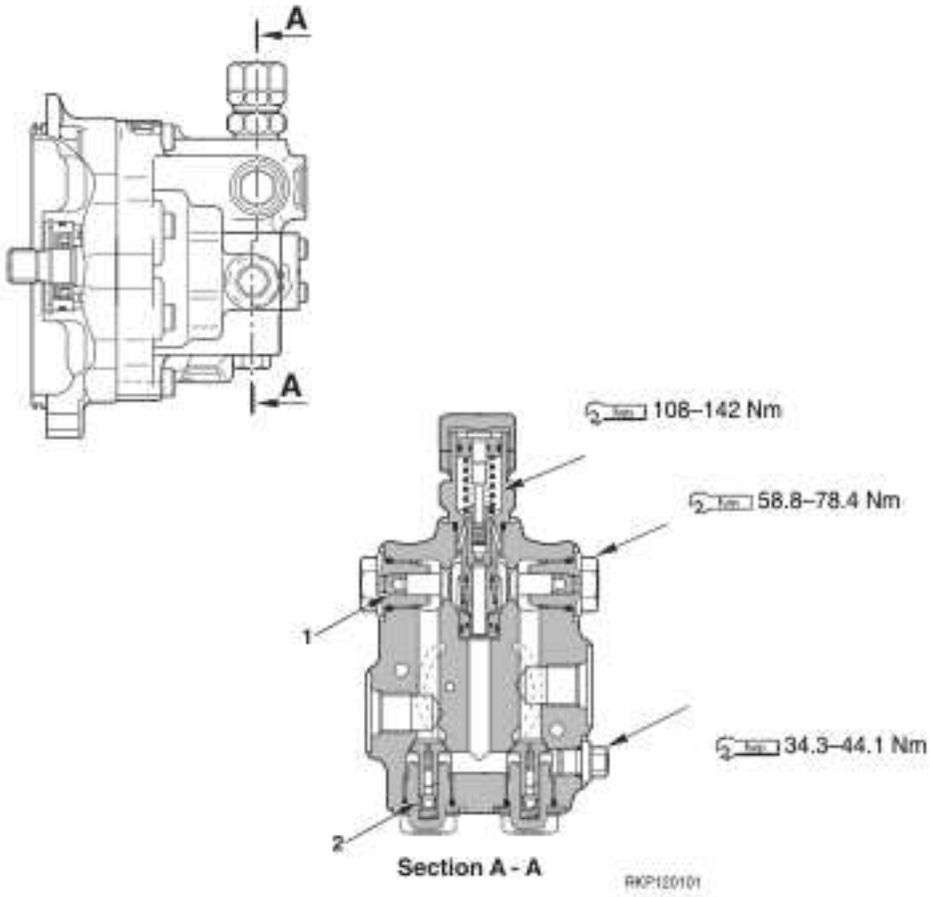
Hydraulic oil: 74 ℓ

2 - Start the engine to circulate the oil and check that there are no leakages.

3 - Switch off the engine, check the level and, if necessary, top it up.

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SWING MOTOR

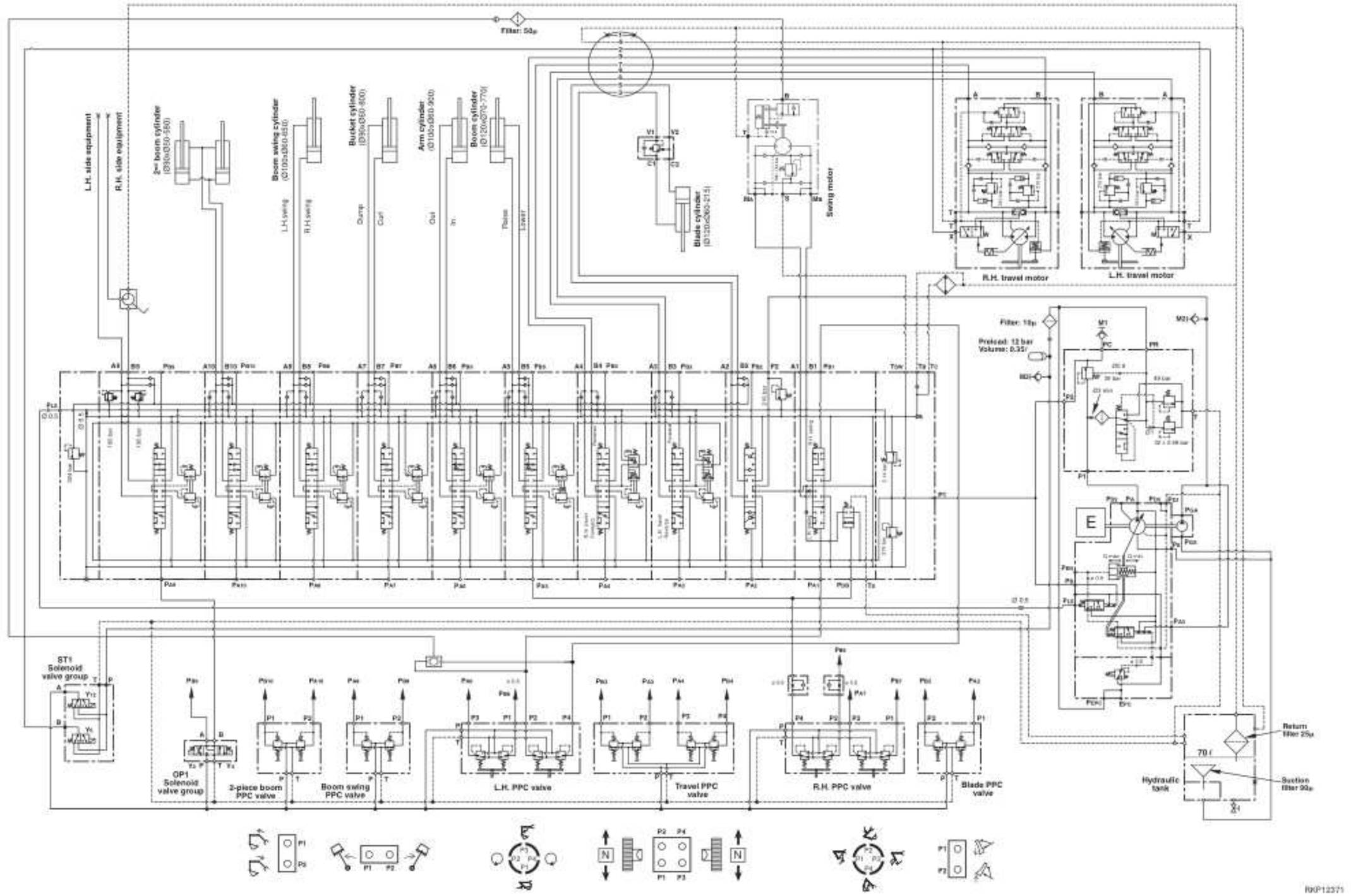


Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
1	Suction valve spring	Free length x O.D.	Installed length	Installed load	Free length x O.D.	Installed load	Replace
		–	11.5	0.9 N	–	–	
2	Shuttle valve spring	–	19.5	1.8 N	–	–	

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HYDRAULIC DIAGRAM WITH 2-PIECE BOOM



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