WEBMPC9500

SHOP MANUAL



PC95-1

HYDRAULIC EXCAVATOR

SERIAL NUMBER

5000007 and up

KOMATSU

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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	PC95-1
From serial no.	5000007
Engine assembly	492
Radiator - exchanger	41
Hydraulic tank (without hydraulic oil)	76
Fuel tank (without fuel)	104
Revolving frame	1092
Counter weight	1150
Swing circle	130
Swing machinery assembly	65
Main hydraulic pump	60
Auxiliary pump	8
Operator's cab	250
Operator's seat	32
Operator's seat support	9
Platform	55
Control valve	60
Track frame assembly • Idler assembly • Sprocket • Final drive • Track roller • Carrier roller	1021 75 23 67 16 11
Track-shoe assembly (standard)	976
Engine hood (movable)	60
Engine hood (fixed)	83
Control valve hood	16
Center swivel joint	36
Swing bracket	230
Boom	358
1st boom	272
2nd boom	195
Arm (L = 1850)	156
Arm (L = 1600)	134
Blade	250

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CHECKING THE INTERVENTION POINT OF THE SUMMATION HORSEPOWER CONTROL

★ Test conditions:
- Engine: at working temperature.
- Hydraulic oil: 45÷55°C
- WORKING MODE selector: position P.

Relieve the residual pressures from the circuits (See «RELEASING RESIDUAL PRESSURES FROM THE CIRCUITS»).

1 - Disconnect the hoses (1) and (2) from the ports **X2** and **X3** and cap them.

2 - Connect the two pressure gauges **E1** (600 bar) to the adapters **M1** and **M2** of the control valve (1st and 2nd section).

3 - Connect the pressure gauge **E3** (250 bar) to the port **G** of the pump.

4 - Start the engine and bring it up to high idling speed.

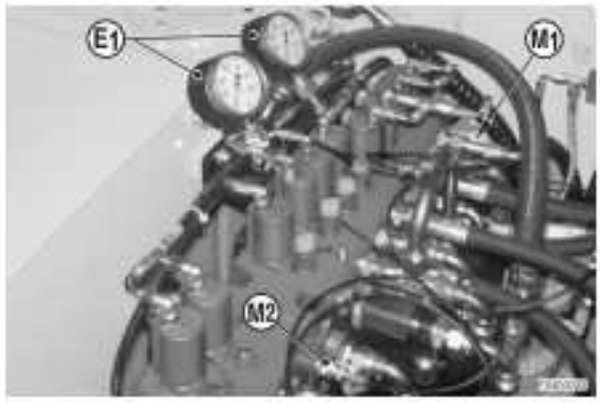
5 - Raise the boom completely and close the arm completely.

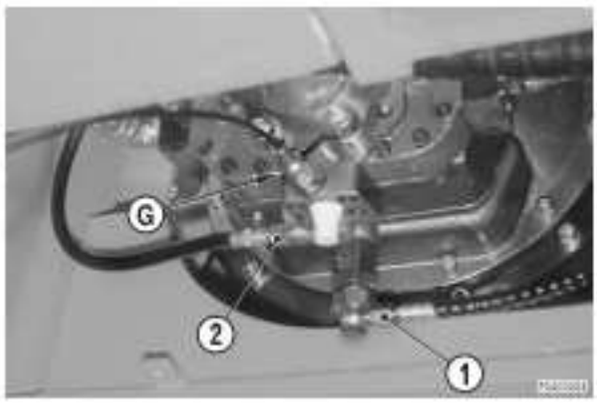
6 - Operate the control levers of the boom and arm simultaneously to pressurise the pumps.
★ The pumps should be pressurised slowly and simultaneously.

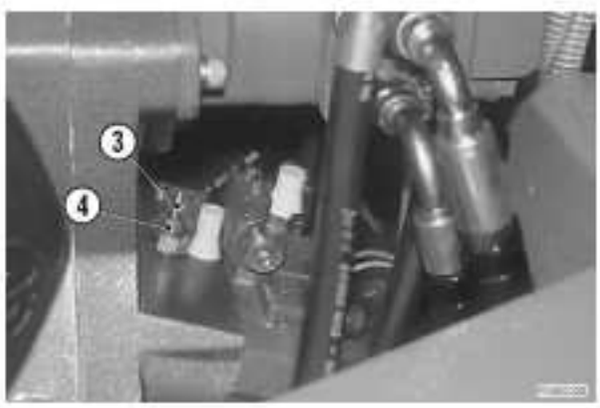
7 - Check at which point the pressure gauge **E3** (250 bar) starts to indicate pressure (intervention point).
★ Intervention point: 155±5 bar
★ If the intervention is early or delayed, adjust it with the screw (3) after having loosened the nut (4).
- To BRING FORWARD the intervention point, turn in a COUNTERCLOCKWISE direction.
- To DELAY the intervention point, turn in a CLOCKWISE direction.

On completion of the adjustment, apply the sealing cap to protect against tampering.

8 - Stop the engine, release any residual pressures and re-assemble the hydraulic circuit.

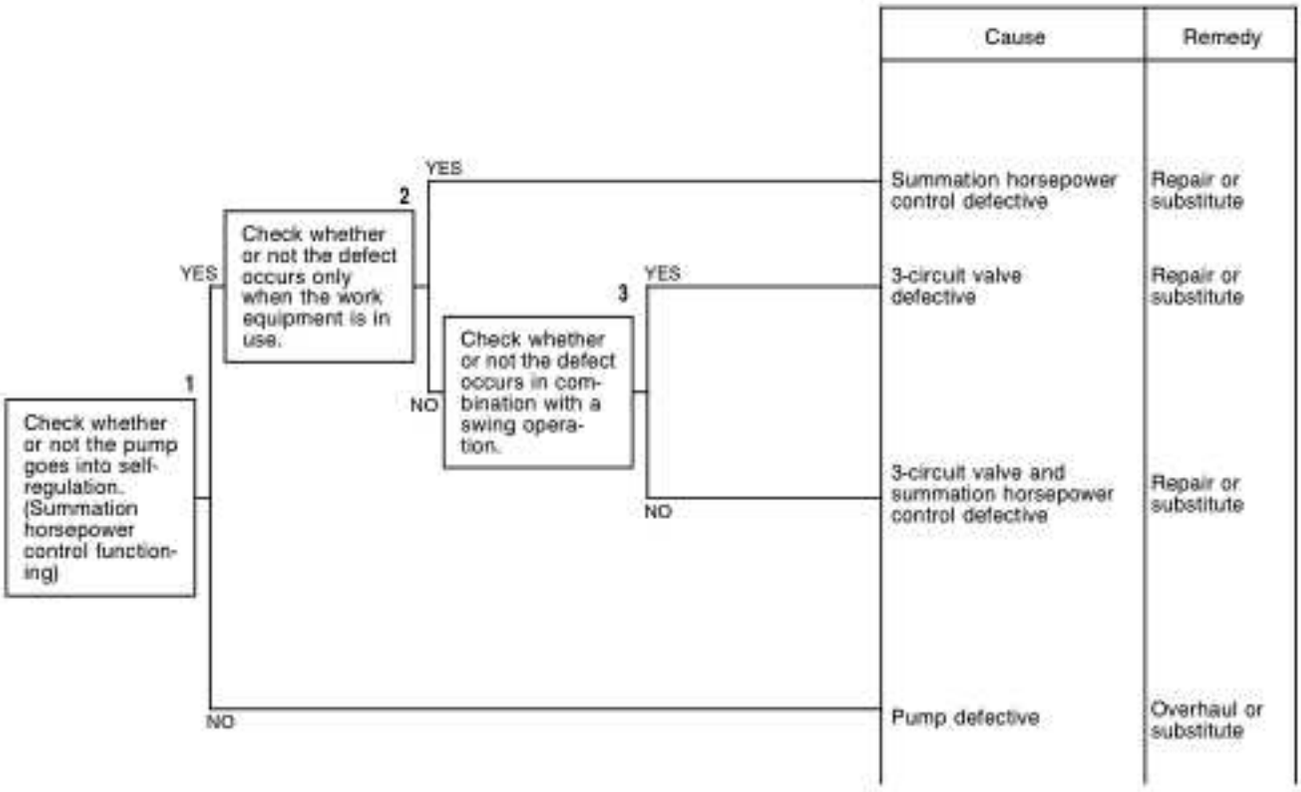






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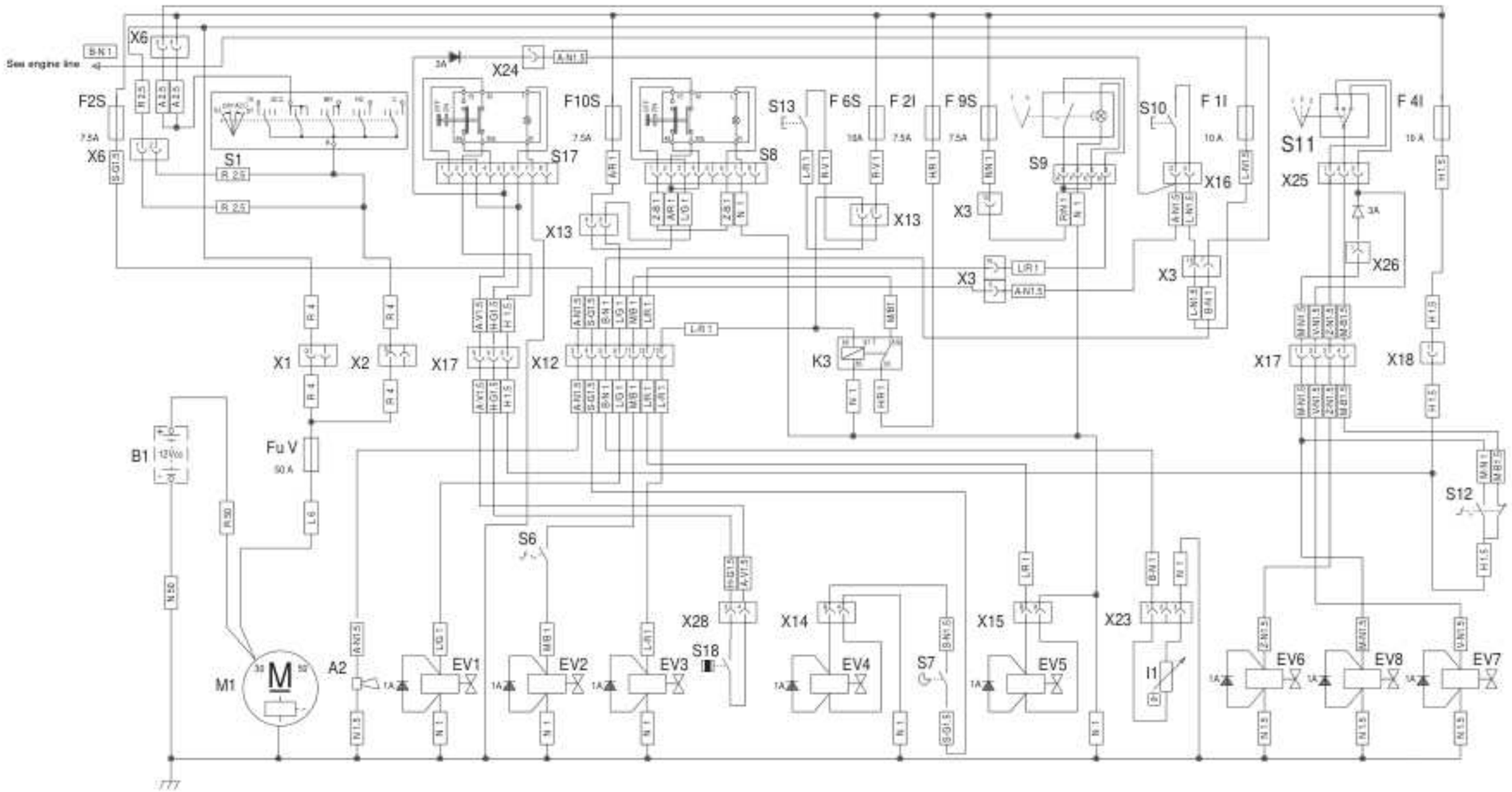
Engine loses power or stalls during work



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ELECTRICAL CIRCUIT DIAGRAM

2 - SOLENOID VALVE



COMPONENTS

B1 - Battery
FuV - Fuse
M1 - Starter motor
K3 - 2nd speed relay
I1 - Fuel level sensor
A2 - Horn
EV1 - Travel brake solenoid valve
EV2 - Travel acceleration solenoid valve
EV3 - Straight travel solenoid valve
EV4 - Relief servocontrol solenoid valve
EV5 - Mode-system solenoid valve
EV6 - Bucket R.H. rotation solenoid valve
EV7 - Bucket L.H. rotation solenoid valve
EV8 - Hammer solenoid valve
S1 - Starter switch
S6 - Travel acceleration switch
S7 - Relief servocontrol switch
S8 - Travel brake switch
S9 - Mode-system switch
S10 - Horn switch
S11 - Rotary and cutting shovel switch
S12 - Hammer switch
S13 - Straight travel switch
S17 - Overload switch (optional)
S18 - Overload sensor (optional)

CONNECTORS

X1 - 2-ways connector engine-main box line
X2 - 2-ways connector engine-dashboard line
X3 - 17-ways connector starter switch-dashboard line
X6 - 4-ways connector R.H. dashboard-main box line
X12 - 13-ways connector solenoid valves-main box line
X13 - 7-ways connector main box- dashboard line
X14 - 2-ways connector relief servocontrol
X15 - 2-ways connector Mode-system
X16 - 2-ways connector horn
X17 - 7-ways connector solenoid valve-R.H. dashoboard line
X18 - 1-way connector solenoid valves line
X23 - 3-ways connector fuel level sensor
X24 - 1-way connector overload sensor
X25 - 3-ways connector hammer and rotating and cutting shovel switch
X26 - 1-way connector diode
X27 - 2-ways connector dashboard-main box line
X28 - 4-ways connector working lamp

FUSE S: F2 - Servocontrol
F6 - Straight travel and travel acceleration
F9 - Mode system
F10 - Travel brake

FUSE I: F1 - Horn
F2 - Travel acceleration
F4 - Hammer and rotating and cutting shovel

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