WEBMPW9500

SHOP MANUAL

PW95-1

HYDRAULIC EXCAVATOR

SERIAL NUMBER

0000007 and up

KOMATSU®

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10 STRUCTURE AND FUNCTION

P.T.O. 10- 2
Power train 10- 3
Transmission 10- 4
Front axle - differential 10- 6
Rear axle - differential 10- 7
Planetary 10- 8
Axles 10- 9
Parking brake and cylinder 10-10
Steering system 10-12
Steering unit 10-16
Swing circle 10-17
Swing machinery 10-18
Check valve and oil cooler safety by-pass 10-19
Hydraulic circuit diagram 10-20
Main hydraulic pump 10-21
Pump drive 10-22
Summation horsepower control 10-23
3 circuit control valve 10-26
Mode-System 10-28
Auxiliary pump 10-29
Priority valve 10-30
Control valve (valve) 10-31
Control valve (ports) 10-32
Swing motor 10-34
Swing motor relief valve 10-35
Center swivel joint 10-36
Travel motor 10-37
Displacement automatic control high pressure related 10-38
Travel motor brake valves 10-39
Servocontrol feed unit 10-40
R.H. PPC valve 10-42
L.H. PPC valve 10-43
Accumulators 10-44
Swing motor braking circuit selector valve 10-45
Travel PPC valve 10-46
2nd boom PPC valve 10-47
Boom swing PPC valve 10-48
Outrigger and blade PPC valve 10-49
Outrigger and blade safety valve 10-50
Brake pump 10-51
Axle locking valve 10-52
Solenoid valves 10-53
Electrical circuit diagrams:
1 - Starting and engine line 10-59
2 - Beams, direction indicator horn and fan line 10-61
3 - Column steering switch, R.H. dashboard switch, mechanical travel speed change relay and rotary and cutting shovel switch line 10-63
4 - Mode System, relief servocontrol and L.H. dashboard switch line 10-65
5 - Steering emergency switch steering selection switch and upper slip ring collector line 10-67
6 - Track frame solenoid valve and steering relay box line 10-69
7 - Main box and track frame relay box disposition 10-71

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CHECKING THE INITIAL HORSEPOWER CONTROL POINT FOR THE 3-CIRCUIT CONTROL VALVE

★ Test conditions:
- Engine: at working temperature
- Hydraulic oil: 45÷55°C
- WORKING MODE selector: position E
- Revolving frame:swing lock pin inserted

Release any residual pressure from the circuits (See «RELEASING RESIDUAL PRESSURES FROM THE CIRCUITS»).

1 - Disconnect the hose (1) from the port **X2** and cap it.

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 - Move the swing control lever to the end of its stroke in one direction or another. At the same time, slowly move the arm-closing lever and activate the boom-raising lever in order to pressurise the pumps.

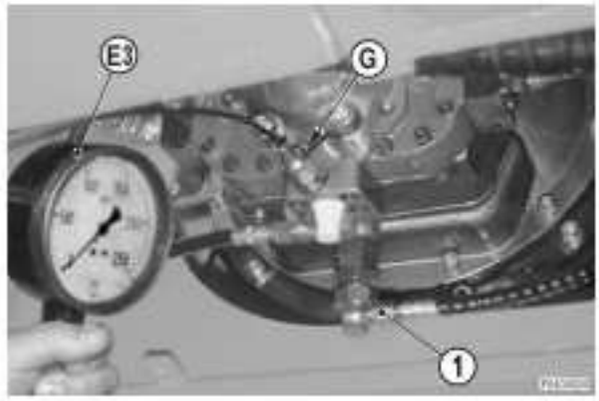
★ The pumps should come up to pressure slowly and simultaneously.

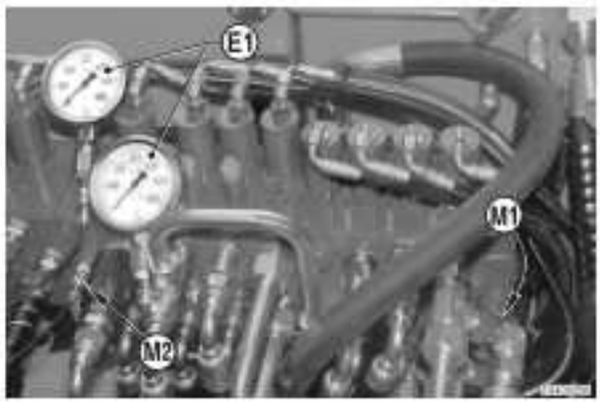
7 - Check at which point the pressure gauge **E3** (250 bar) starts the pressure-indicating movement (intervention point).

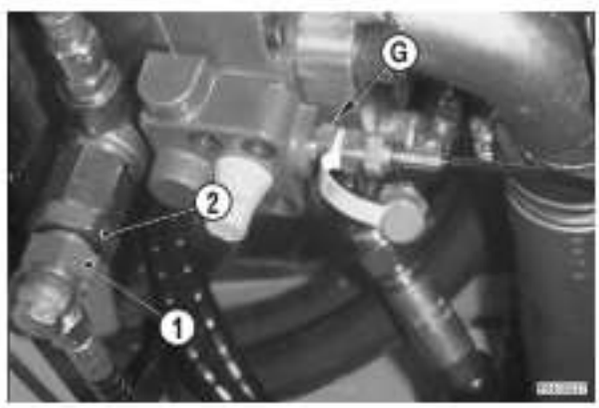
★ If the intervention is early or delayed, adjust it with the cartridge (1) after having loosened the nut (2).
- To BRING FORWARD the intervention point, turn in a CLOCKWISE direction.
- To DELAY the intervention point, turn in an COUNTERCLOCKWISE direction.

★ Intervention point: 110±5 bar.

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



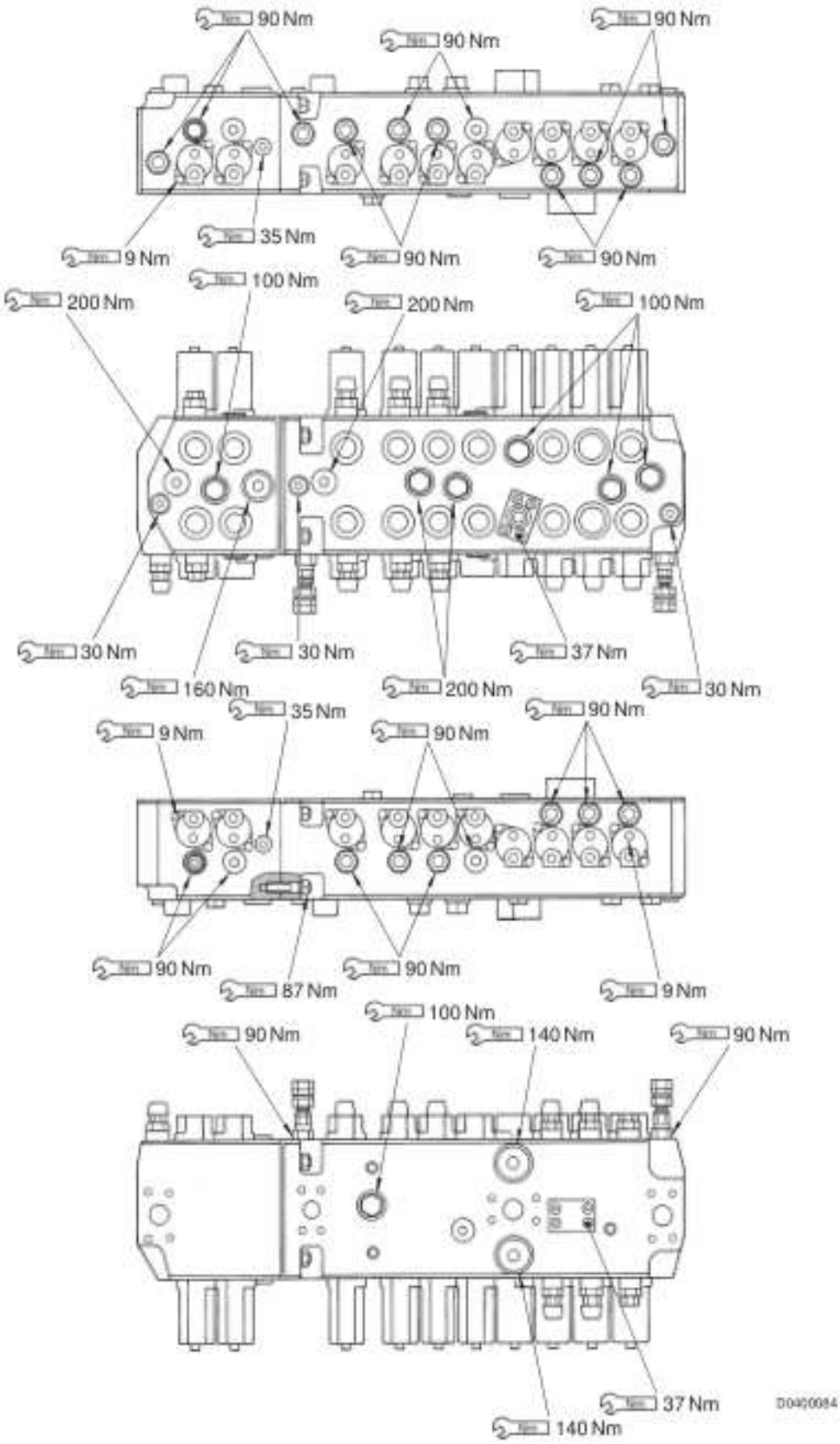




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Cause	Remedy
Relay coil defective	Substitute relay
Accessory control box (88) defective	Substitute
No continuity	Restore
Sensor defective	Substitute
No continuity	Restore
No continuity	Restore

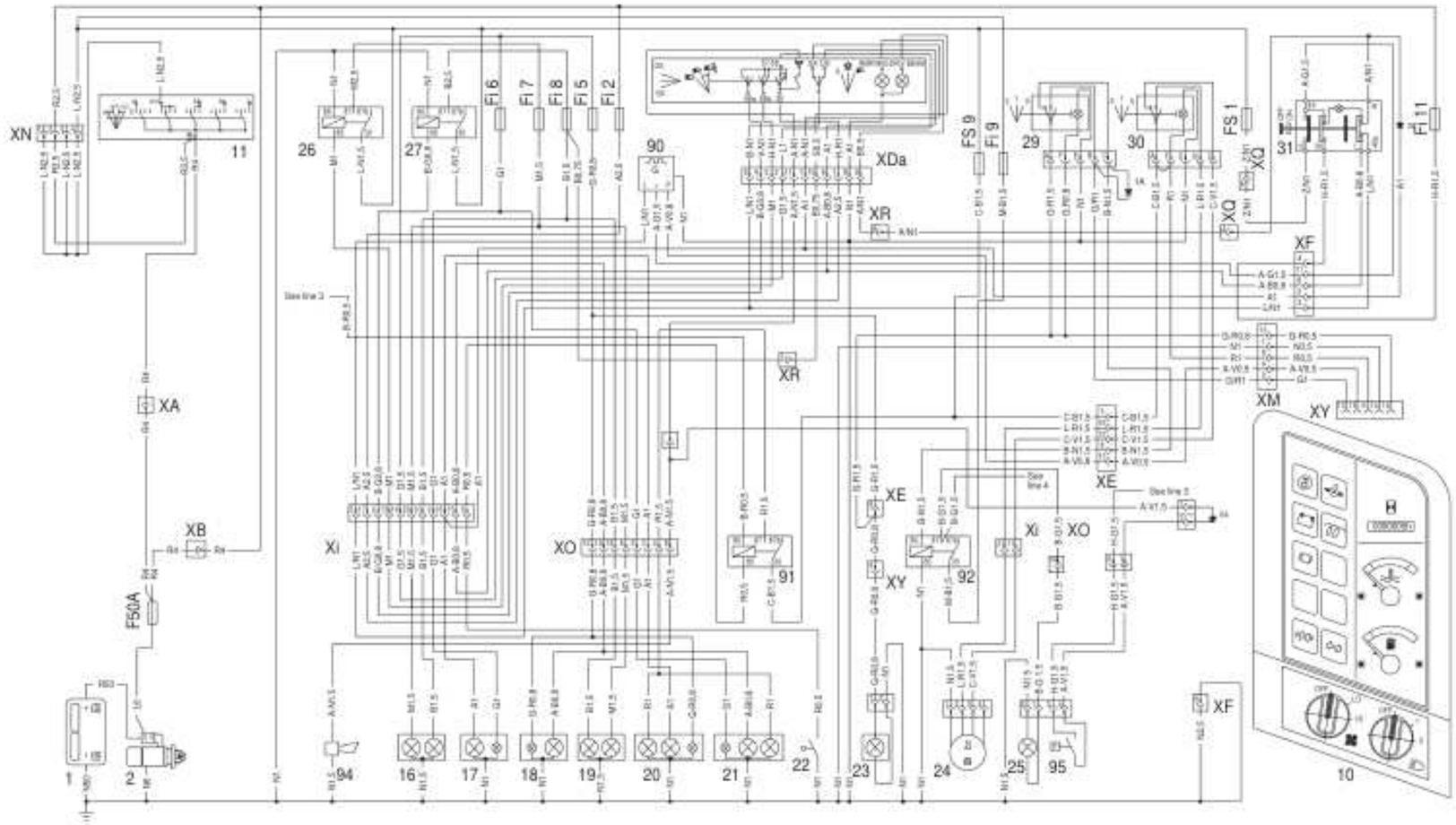
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ELECTRICAL CIRCUIT DIAGRAM

2 - BEAMS, DIRECTION INDICATOR HORN AND FAN LINE



COMPONENTS

1 - Battery
2 - Starter motor
10 - Control panel
11 - Starter switch
16 - L.H. beam
17 - L.H. travel direction indicator beam
18 - R.H. travel direction indicator beam
19 - R.H. beam
20 - Rear L.H. beam
21 - Rear R.H. beam
22 - Brake switch
23 - Registration number beam
24 - Heating fan motor
25 - Working beam (optional)
26 - Lower beam relay
27 - Driving beam relay
29 - Working beam switch
31 - Emergency switch
90 - Flashing light relay
91 - Stop beam relay
92 - Working beam relay
94 - Horn
95 - Overload pressure sensor

CONNECTOR

XA - 2-ways connector starting switch
XB - 2-ways connector supply and pre-heater
XDa - 13-ways connector column steering switch
XE - 17-ways connector main box - R.H. dashboard
XF - 7-ways connector L.H. dashboard
XY - 7-ways connector engine - R.H. dashboard
Xi - 21-ways connector service and indicator light line
XM - 13-ways connector control panel
XN - 17-ways connector supply
XO - 17-ways connector beam line
XQ - 9-ways connector L.H. dashboard
XR - 5-ways connector main box - column travel switch line

FUSES A:

FS1 - +15 Turning indicator lights
FS9 - Stop, heater, working mode, R.H. switch, control panel

FUSES B:

Fi2 - Turning indicator lights
Fi5 - Front R.H. and rear L.H. parking light
Fi6 - Front L.H. and rear R.H. parking light
Fi7 - Lower beam
Fi8 - Driving beam
Fi9 - Working lamp
Fi11 - +30 emergency warning lights

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