

KOMATSU PW140-7 Wheeled Excavators Service Repair Workshop Manual[VEBM410101]





PW140-7

MACHINE MODEL

PW140-7

SERIAL NUMBER

H55051 AND UP

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.
- Materials and specifications are subject to change without notice.
- PW140-7 mount the SAA4D107E-1 engine.
- For details of the engine, see the 107 Series Engine Shop Manual.

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Inspection and adjustment of pump PC (valve inlet) control oil pressure

- Pump PC control circuit oil pressure inspection and adjustment tools

Mark	Part No.	Part Name	No. Off
J	799-101-5002	Hydraulic Tester	2
	790-261-1203	Digital Type Hydraulic Tester	2
2	799-101-5220	Grease Fitting (10 x 1.25 mm)	2
	07002-11023	O-ring	2

Measurement

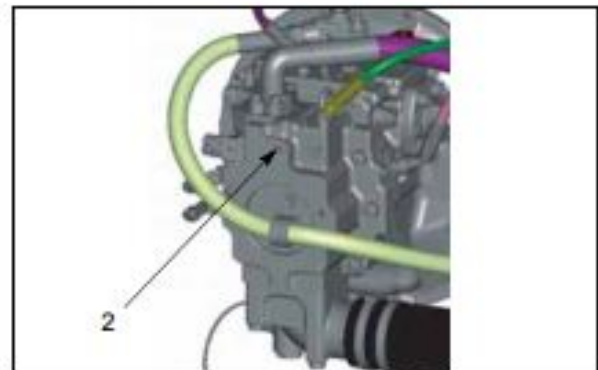
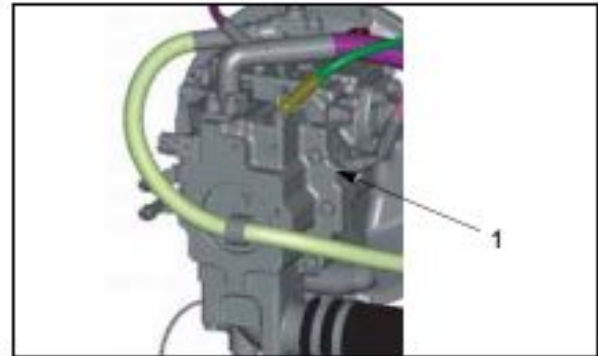
- Implement measuring the pump PC control circuit oil pressure after confirming that the work equipment, swing and travel circuit oil pressure as well as the control circuit original oil pressure are normal.



Lower the work equipment to the ground and stop the engine. After the engine is stopped, (but with the ignition switch in the ON position and safety lever still ENGAGED), operated the control levers several times to release the remaining pressure in the hydraulic system. Then loosen the oil filler cap to release any pressure in the hydraulic tank.

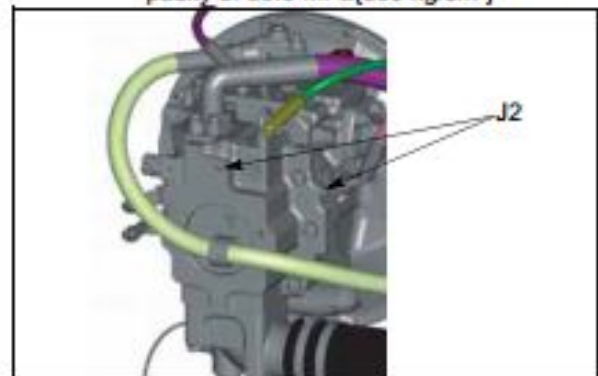
1. Measurement of PC valve output pressure (servo piston inlet pressure)

- Measure PC valve output pressure (servo piston inlet pressure) and pump delivery pressure together, and compare the two pressures.
- a. Remove oil pressure measurement plugs (1) and (2).
- Plug (1): For measuring the pump delivery pressure
 - Plug (2): For measuring the pump PC valve delivery pressure



- b. Fit tool J2 to each port (1 and 2), connect each tool to oil pressure gauge of hydraulic tester J1.

- Use an oil pressure gauge with the capacity of 58.8 MPa(600 kg/cm²)





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