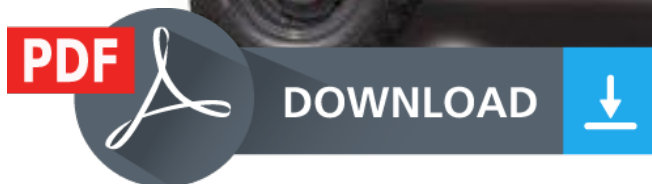


KOMATSU PW180-7E0 Wheeled Excavators Service Repair Workshop Manual[VEBM400101]





PW180-7E0

| MACHINE MODEL | SERIAL NUMBER |
|---------------|---------------|
| PW180-7E0 | 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.
- PW180-7E0 mount the SAA6D107E-1 engine.
- For details of the engine, see the 107 Series Engine Shop Manual.

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Measuring fuel return rate and leakage

- Measuring tools for fuel return rate and leakage

| Symbol | Part No. | Part name | |
|--------|----------|------------------------|-------------------------------|
| G | 1 | (Not set yet) | Supply pump testing tool |
| | 2 | (Not set yet) | Pressure limiter testing tool |
| | 3 | (Not set yet) | Injector testing tool |
| | 4 | Commercially available | Measuring cylinder |



Stop the machine on a level ground and lower the work equipment to the ground.

1. Measuring return rate from supply pump

- 1-1. Open the engine hood and disconnect return hose (1) of the supply pump.



- 1-2. Connect testing tool G1 to the supply pump side and insert its end in measuring cylinder G4.

- 1-3. Connect blocking tool G1 to the return hose side to prevent the fuel from leaking.

- 1-4. Run the engine at low idle and measure the return rate from the supply pump.

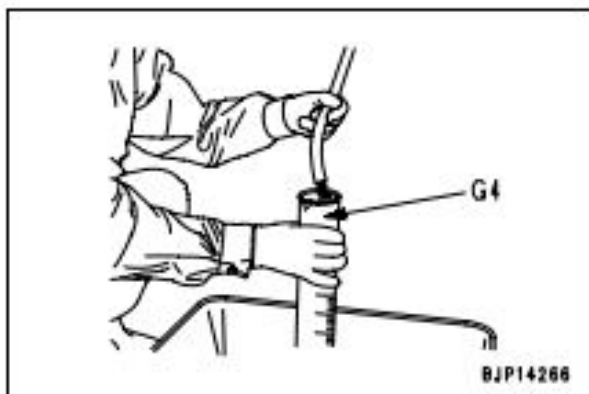
- If the return rate from the supply pump is in the following range, it is normal.

At low idle: Max. 1,000 cc/min

During cranking: Max. 140 cc/min



If the engine cannot be started, you may measure the fuel return rate while rotating the engine with the starting motor. Do not rotate for more than 20 seconds continuously, however, for protection of the starting motor.



- 1-5. After finishing measurement, remove the measuring tools and return the removed parts.

2. Measuring leakage from pressure limiter

- 2-1. Open the engine hood and disconnect return hose (2) of the pressure limiter.



- 2-2. Connect testing tool G2 to the pressure limiter side and insert its end in measuring cylinder G4.

- 2-3. Connect blocking tool G2 to the return hose side to prevent the fuel from leaking.

- 2-4. Run the engine at low idle and measure the leakage from the pressure limiter.

- If the leakage from the pressure limiter is in the following range, it is normal.

At low idle: 0 cc (No leakage)



Thank you very much
for your reading.
Please click here
to get more information.