

KOMATSU PW160-7H Wheeled Excavators Service Repair Workshop Manual[VEBM390100]



SHOP MANUAL

KOMATSU

PW160-7H

MACHINE MODEL
PW160-7H

SERIAL NUMBER
H50051 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.
- PW160-7H mount the SAA4D102E-2 engine. For details of the engine, see the 102 Series Engine Shop Manual.

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MEASUREMENT OF COMPRESSION PRESSURE

★ Compression pressure measurement tools

Mark	Part No.	Part Name	
D	1	795-502-1205	Compression Gauge
	2	795-502-1700	Adapter

CAUTION! Be careful not to get burnt by touching the exhaust manifold or muffler, or get caught with a rotating parts, while taking measurement of compression pressure.

1. Adjust the valve clearances.

★ For the adjustment, refer to the section, "Adjustment of Valve Clearance".

2. Make preparations for measuring the engine rpm.


★ For the preparations, refer to the section, "Inspection and adjustment of Engine RPM".

3. Warm up the engine until the engine oil temperature rises up to 40 – 60°C.

4. Detach nozzle holder (1) of a cylinder to be measured.



5. Fit Adapter D2 to the nozzle holder mounting, and connect with gauge assembly ① of compression gauge D1.

 Adapter: 60±9 Nm(6.12±0.92 kgm)



6. Detach governor link rod from governor motor.

7. Move governor lever (3) of the fuel injection pump, so it is in contact with the stopper on the STOP side.





8. Crank up the engine with the engine starting motor, and measure the compression pressure.

★ Read off the value, when the needle of the compression gauge steadies itself.

★ When taking measurement of the compression pressure, be sure to measure the engine rpm, too, so that it stays within the range of designated measurement conditions.

9. Detach the measurement tools after the measurement, and make sure that the machine is back to normal condition.

 Nozzle holder:
Seizure preventive (Molycoat 1000)

 Nozzle holder:
60±9 Nm(6.12±0.92 kgm)



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to get more information.