

KOMATSU PW160-7E0 Wheeled Excavators Service Repair Workshop Manual[VEBM395100]



SHOP MANUAL

KOMATSU **PW160-7E0**

MACHINE MODEL
PW160-7E0


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.
- PW160-7E0 mount the SAA4D107E-1 engine.
- For details of the engine, see the 107 Series Engine Shop Manual.

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7. Install rocker arm assembly (3) on the exhaust side and adjust the valve clearance.


 Rocker arm assembly mounting bolt:
 $36 \pm 5 \text{ Nm}$ ($3.67 \pm 0.5 \text{ kgm}$)

★ See "Adjusting valve clearance".



8. Disconnect CE03 connector (6) of the engine controller.

 If the connector is not disconnected, the engine will start during measurement and it will be dangerous.

 Since the CE03 connector is a part of the power supply circuit of the engine controller, cover the connector on the machine side with a vinyl sheet, etc. to prevent electric leakage and ground fault.



9. Rotate the engine with the starting motor and measure the compression pressure.

★ Read the gauge when the pointer is stabilized.

10. After finishing measurement, remove the measuring tools and return the removed parts.

★ Install the injector and inlet connector according to the following procedure.

- 1) Apply new engine oil (SAE15W-40) to the O-ring of injector (5) and cylinder head.
- 2) Install injector (5) with the fuel inlet hole directed to the air intake manifold.
- 3) Install injector holder (8) and tighten the mounting bolt by 3 – 4 threads.

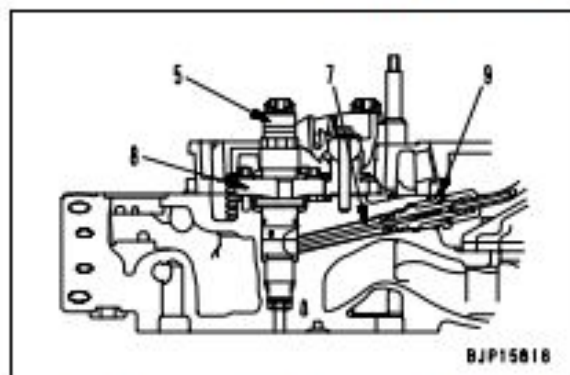
- 4) Install inlet connector (7) and tighten inlet connector retainer (9) temporarily.

- 5) Tighten the mounting bolt of injector holder (8) securely.


3 Injector holder mounting bolt:
 $8 \pm 0.8 \text{ Nm}$ ($0.8 \pm 0.08 \text{ kgm}$)


- 6) Tighten inlet connector retainer (9) securely.


3 Inlet connector retainer:
 $50 \pm 5 \text{ Nm}$ ($5.1 \pm 0.5 \text{ kgm}$)




★ Tighten the bolts and nuts other than the injector and inlet connector to the following torque.

 Injector wiring harness nut:
 $1.5 \pm 0.25 \text{ Nm}$ ($0.15 \pm 0.026 \text{ kgm}$)

 Fuel tube sleeve nut:
 $35 \pm 3.5 \text{ Nm}$ ($3.6 \pm 0.4 \text{ kgm}$)

 Rocker arm assembly mounting bolt:
 $36 \pm 6 \text{ Nm}$ ($3.7 \pm 0.6 \text{ kgm}$)

★ Adjust the valve clearance. For details, see "Adjusting valve clearance".

 Cylinder head cover mounting nut:
 $24 \pm 4 \text{ Nm}$ ($2.45 \pm 0.41 \text{ kgm}$)



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to get more information.