

JCB Transmissions Engine Service Repair Manual





JS130W, JS145W, JS160W, JS175W

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World Class
Customer Support

Daily Checking

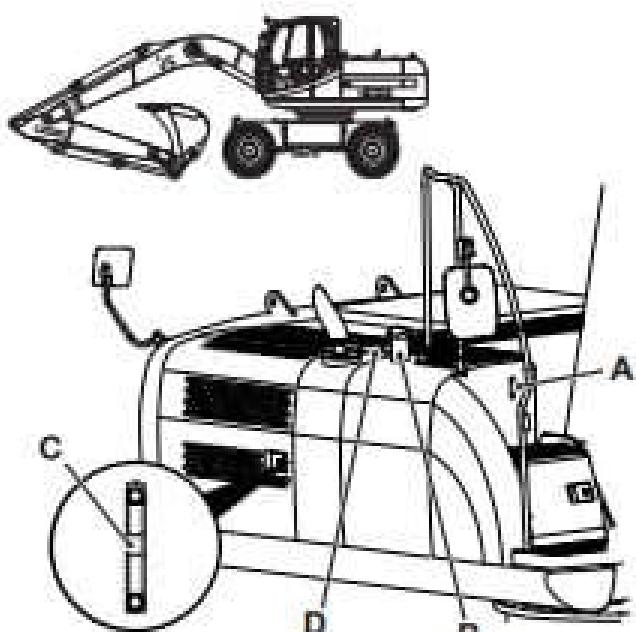


Fig 7.

7 Fuel level check.

Check the fuel level by inspecting the fuel gauge A located on the front of the tank and monitor display. If low, refill through the fuel filler port B.

 WARNING

Do not remove the hydraulic tank filler cap or cover plate when the engine is running. The hydraulic system is under pressure. You or others could be injured. First stop the engine and then release the pressure.

B-3-44

8 Hydraulic oil level check and refilling.

- Follow steps 1-3 of the daily checking procedure leaving the boom, dipper and bucket positioned
- Check to see that the hydraulic oil level is near the centre of the level gauge C.
- If it is low, remove the filler plug D and refill. Take care that no dirt or dust gets into the hydraulic oil when refilling.

- Check the mounting bolts of the fuel and hydraulic oil tanks for looseness and for fuel and hydraulic oil leakage.

- Check the mounting bolts of the electrical parts and battery terminals for looseness and wire breakage.

9 Boom/Dipper

Check the high pressure hoses/joints and the hydraulic rams for oil leakage.

10 Accumulator - Check charge

- Extend dipper and raise boom.
- Apply engine shutdown.
- Operate boom down function.
- Ensure boom lowers to the ground under its own weight.

11 Bucket and Linkage.

- Check the bucket teeth and side cutter for looseness, wear and breakage.
- Check the lubrication of the linkage K and surrounding parts. Check to see if the bucket side play is within allowable range. (Refer to the Bucket Section for side play adjustment.)

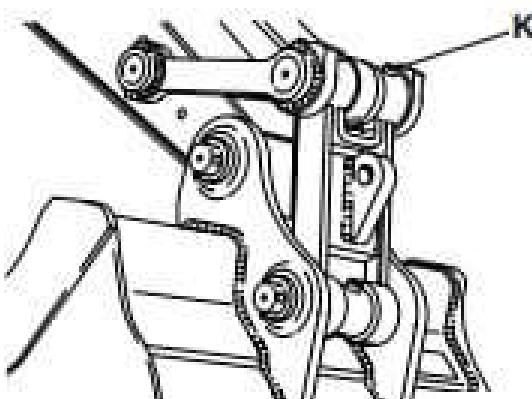


Fig 8.

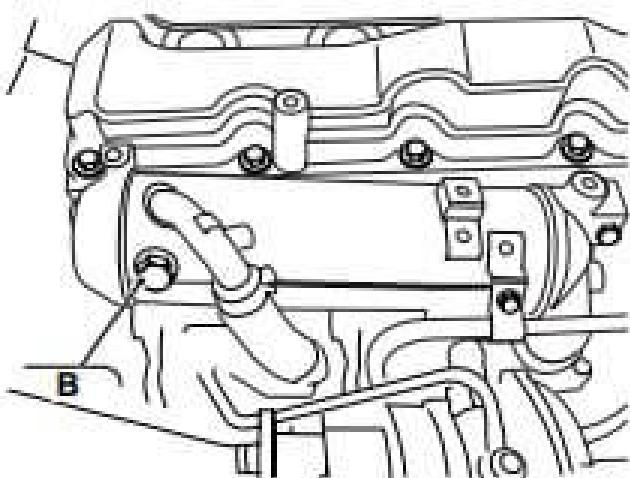


Fig 27.

- Open the EGR cooler plug B to bleed air from the system.
- Top up the radiator with coolant.
- Close the EGR cooler plug.

Note: Torque tighten the EGR cooler plug to 25Nm.

- Fit the radiator cap.

4HK Engines

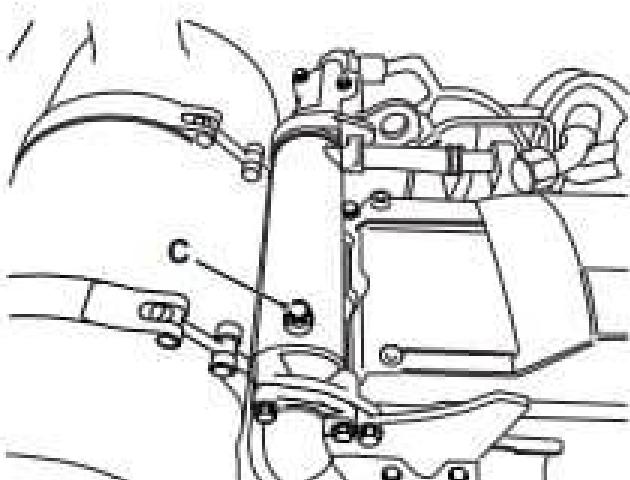


Fig 28.

- Open the EGR cooler plug C to bleed air from the system.

- Top up the radiator with coolant.

Note: Manipulate the top radiator hose D to make sure there are no air locks in the system. ➤ Fig 26. (□ 3-48).

- Close the EGR cooler plug.

Note: Torque tighten the EGR cooler plug to 25Nm.

- Fit the radiator cap.

All Machines

- Check the level in the expansion bottle E. ➤ Fig 26. (□ 3-48).

The level must be at the FULL mark.

If the level is low:

- Top-up the expansion bottle E with coolant.
- Start the engine.
- Switch the cab heater onto hot and full blower speed.
- Turn the slew lock ON.

- Stall the 'tipper in' service until the coolant temperature reaches approximately 90°C.

Coolant temperature can be checked as follows:

- Simultaneously press the SET and MODE buttons on the EMS.
- Press the UP or DOWN arrow until 'WATER TEMP' is displayed on the EMS.
- Press the ACK button on the EMS.

The coolant temperature is displayed in °C.

- Switch the engine OFF.
- Remove the ignition key.
- Let the engine cool down.



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