

**CX470C**  
**Tier 4**  
Crawler Excavator

**SERVICE MANUAL**

**Part number 84512404**

1st edition English  
October 2011



# Removal and Installation of Engine Assembly

## ⚠ WARNING

- Keep away from fire.
- Be sure to release hydraulic pressure before beginning work.
- The air conditioner circuit is filled with high-pressure gas, so there is the danger of gas spraying out when loosening lines.
- Do not use open flames and do not allow sparks near the battery.

## ⚠ CAUTION

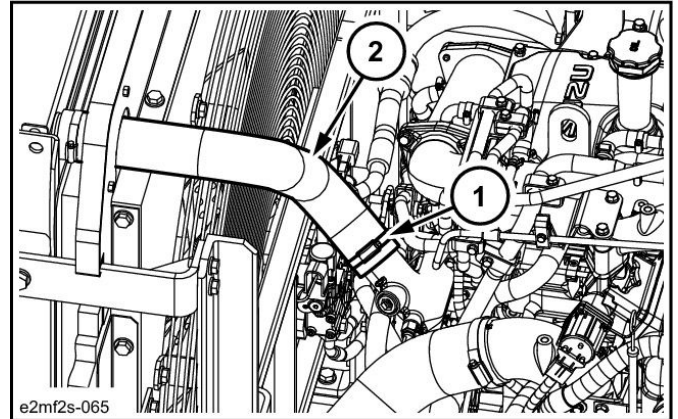
- Be sure to stop the engine before beginning work.
- Be sure to inspect the wire rope and other lifting equipment before beginning work.
- Do not stand or pass under the suspended load.

### Items to prepare

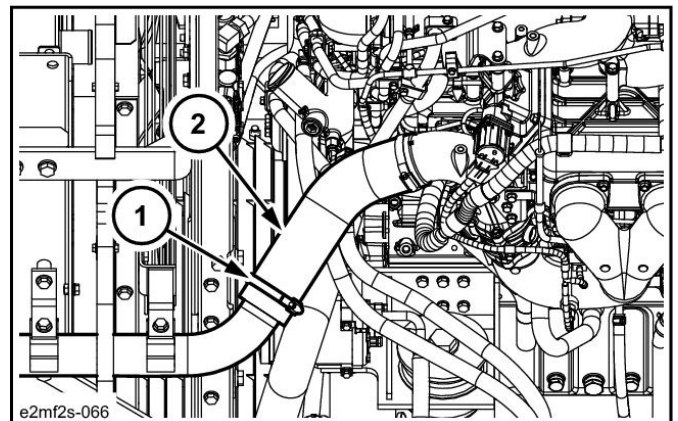
- Wrenches (7 mm, 8 mm, 13 mm, 17 mm, 19 mm, 36 mm)
- Box wrench (46 mm)
- Shackle (with the required lifting capacity) x 2
- Wire ropes (with the required breaking load)
- Liftcrane (with the required lifting capacity)
- Marking pen
- Cap
- Plug
- Waste oil can
- Rag
- Cleaning fluid
- Wood planks, etc.

## Removal of Engine Assembly

1. Drain the engine oil.(For details, see "Engine Oil Replacing".)
2. Drain the coolant from the radiator.(For details, see "Removal and Installation of Radiator".)
3. Remove the engine hood.(For details, see "Removal and Installation of Engine Hood".)
4. Remove the hydraulic pump.(For details, see "Removal and Installation of Hydraulic Pump".)
5. Remove the muffler.(For details, see "Removal and Installation of Muffler".)
6. Use a wrench (7 mm) to loosen the hose band (1) on the radiator, and then remove the upper hose (2).



7. Use a wrench (8 mm) to loosen the hose band (1) on the inter cooler, and then remove the hose (2).
  - Use caps to cover the lines and hoses to prevent the entry of water, dust or dirt.



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