

# JCB 410,412,415,420,425,430 Wheeled Loader Service Repair Manual



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## VM RANGE - TIER III

Service Manual - VM RANGE - TIER III

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## Prepare the Machine

Park the machine on firm level ground, engage the parking brake and set the transmission to neutral. Lower the attachments to the ground and stop the engine.

## Cleaning the Machine

### **⚠ WARNING**

Airborne particles of light combustible material such as straw, grass, wood shavings, etc. must not be allowed to accumulate within the engine compartment or in the propshaft guards (when fitted). Inspect these areas frequently and clean at the beginning of each work shift or more often if required. Before opening the engine cover, ensure that the top is clear of debris.

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#### 1 Radiator and Grille

If the radiator tubes/fins get clogged the radiator will be less efficient.

Raise engine cover ➔ [Engine Cover \(D 3-31\)](#) and blow out debris from the engine cover grille and radiator A. ➔ [Fig 1. \(D 3-26\)](#).

Make sure the loosened material is removed from the cooler enclosure.



Fig 1.

#### 2 Engine

Do not allow mud to build up on the engine and transmission. Pay particular attention to the exhaust area, remove all combustible material.

The engine or certain components could be damaged by high pressure washing systems, special precautions must be taken if the engine is to be washed using a high pressure system.

Do not attempt to clean any part of the engine while it is running. Stop the engine and allow it to cool for at least one hour.

- a Disconnect the battery.

## Access Panels

### Battery Access Panel

#### Opening and Closing

The battery is accessed by opening the access panel **B** at the rear of the machine. → [Fig 5. \(D 3-31\)](#).

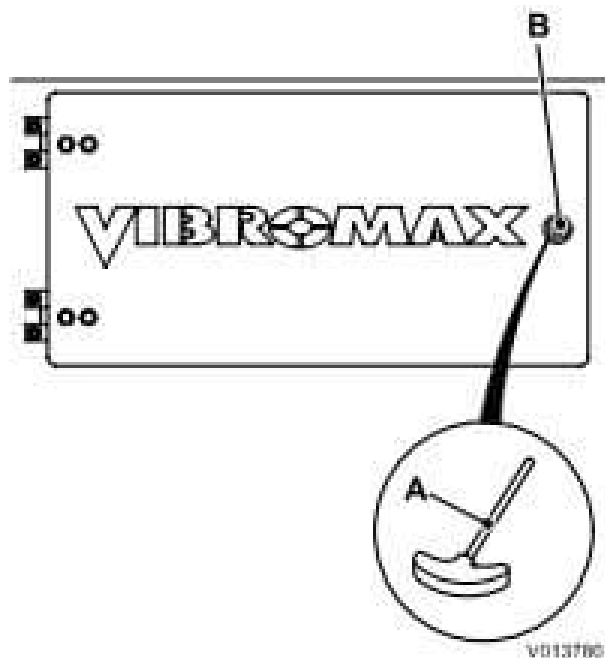


Fig 5.

- 1 Stop the engine and remove the starter key.
- 2 Using the access panel key **A** (if fitted), 8 mm (0.3 in), unlock and open the battery access panel.
- 3 To close, close the battery access panel and lock with the access panel key (if fitted).

### Engine Cover

#### Opening and Closing

Access to the engine is by opening the cover at the rear of the machine.

#### VM46-115 Machines

- 1 Stop the engine and remove the starter key.
- 2 Open the battery access panel. → [Battery Access Panel \(D 3-31\)](#).
- 3 Pull down on lever **A** to release the engine cover. → [Fig 6. \(D 3-31\)](#).

#### **⚠ WARNING**

The engine has exposed rotating parts. Switch OFF the engine before working in the engine compartment. Do not use the machine with the engine cover open.

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- 4 The engine cover will raise on the two gas struts.
- 5 To close the engine cover, reach up and pull the engine cover down, making sure the latch engages and locks.

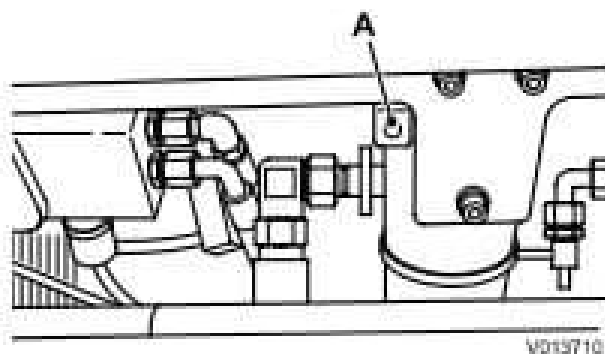


Fig 6.



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