Dear JCB Customer

Even if you have operated this type of equipment before, it is very important that your new machines operations and functions are explained to you by a JCB Dealer Representative following delivery of your new machine.

Following the installation you will know how to gain maximum productivity and performance from your new product.

Please contact your local JCB dealer if the Installation Form has not yet been completed with you.

Your Local JCB Dealer is:

# OPERATOR MANUAL

**THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE**

VMP 14, VMP 18, VMP 24 VIBRATING PLATE

ENGLISH - 332/A5752 - ISSUE 2 - AUGUST 2010

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# Safety Notices

## Important Information

T1-015

### The Operator Manual

**⚠ WARNING**

**Study the Operator Manual before starting the machine. You must understand and follow the instructions in the Operator Manual. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB dealer or employer. Do not guess, you or others could be killed or seriously injured.**

INT-1-1-1_2

Do not operate the machine without an Operator Manual.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

### Safety Warnings



This safety alert system identifies important safety messages in this manual. When you see this symbol, be alert, your safety is involved, carefuly read the message that follows, and inform other operators.

In this publication and on the machine, there are safety notices. Each notice starts with a signal word. The signal word meanings are given below.

**⚠ DANGER**

**Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.**

INT-1-2-1

**⚠ WARNING**

**Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.**

INT-1-2-2

**⚠ CAUTION**

**Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.**

INT-1-2-3

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# Introduction

## About This Manual

### Machine Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

VMP 14, VMP 18, VMP 24

– From serial no. 1405000 to 1405999.
– From serial no. 1546000 onwards.

### Using this Manual

INT-1-2-5_4

This manual is arranged to give you a good understanding of the machine and its safe operation. It also contains maintenance information and specification data. Read this manual from front to back before using the machine for the first time. Particular attention must be given to all the safety aspects of operating and maintaining the machine.

Do not operate the machine without an Operator Manual.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

If there is anything you are not sure about, ask your JCB distributor or employer. Do not guess, you or others could be killed or seriously injured.

General warnings in this chapter are repeated throughout the book, as well as specific warnings. Read all the safety statements regularly, so you do not forget them. Remember that the best operators are the safest operators.

The illustrations in this manual are for guidance only. Where the machines differ, the text and or the illustration will specify.

The manufacturer's policy is one of continuous improvement. The right to change the specification of the machine without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the machine and the descriptions contained in this publication.

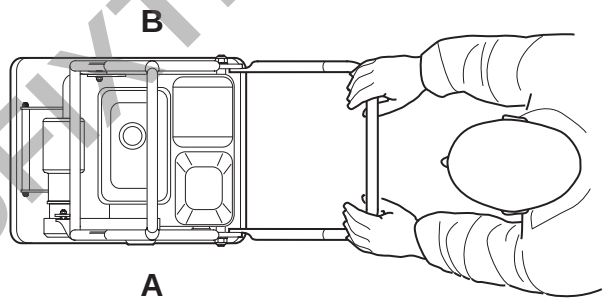
All optional equipment included in this manual may not be available in all territories.

### Units of Measurement

In this publication, the S.I. system of units is used. For example, liquid capacities are given in litres. The Imperial units follow in parentheses ( ) e.g. 28 litres (6 gal).

### Left Side, Right Side

In this manual, `left' **A** and `right' **B** mean your left and right when you are correctly standing behind the machine.




C057690

**Fig 1.**

### Using the Machine

T1-002_2

To use the machine efficiently and safely you must know the machine and have the skill to use it. You must abide by all relevant laws, health and safety regulations that apply to the country you are operating in. This manual instructs you on the machine, its controls and its safe operation; it is not a training manual. If you are a new operator, get yourself trained in the skills of using a machine before trying to work with it. If you don't, you will not do your job well, and you will be a danger to yourself and others.

### Cross References

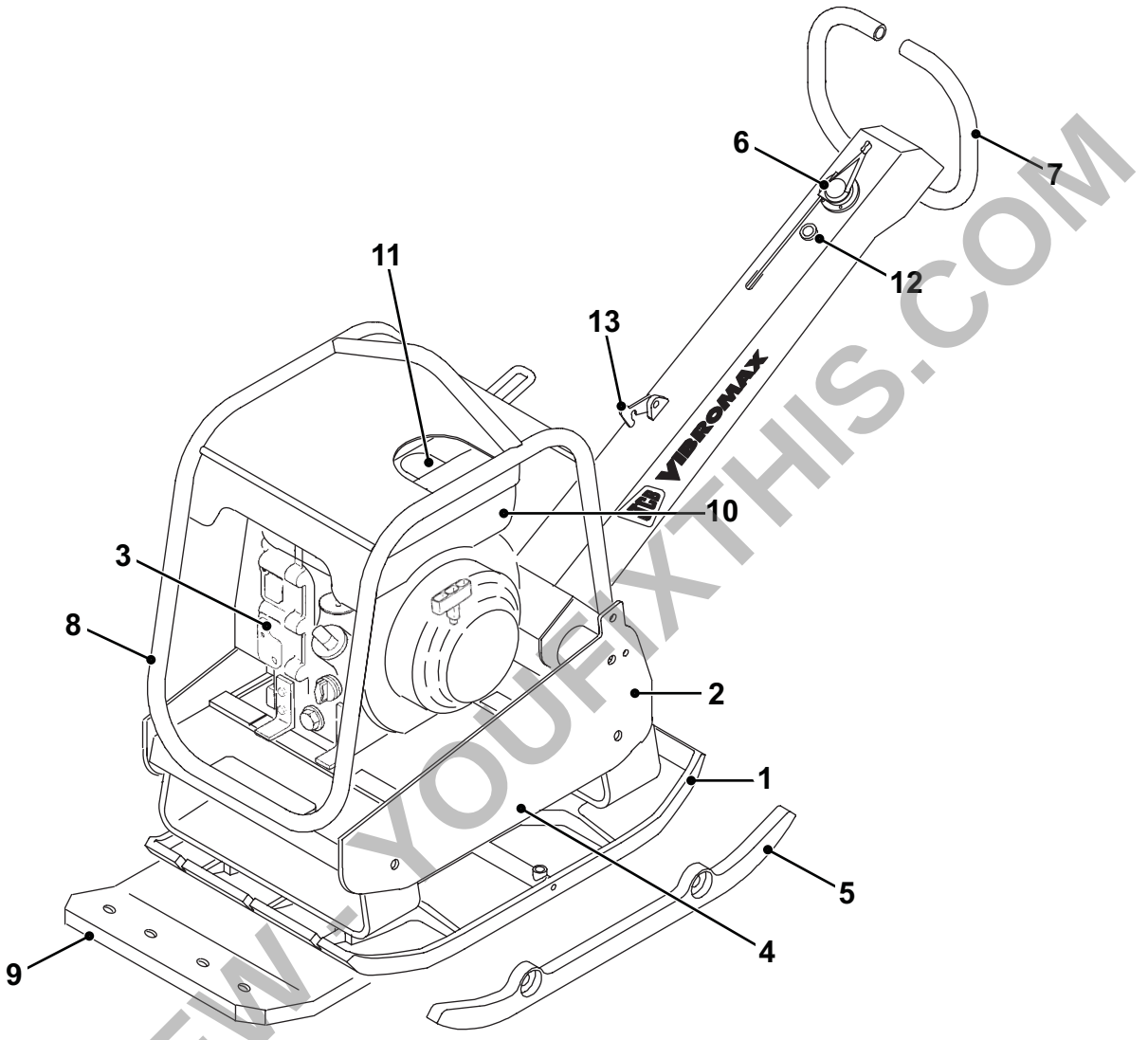
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## Component Locations




C091201

**Fig 3.**

**1** Tamping plate
**2** Engine chassis
**3** Engine
**4** Exciter mechanism
**5** Tamping plate extension (VMP 24)
**6** Speed/direction control
**7** Operator handle and guide bar
**8** Roll-over protection frame
**9** Plate damper (paving stone protection mat)
**10** Fuel tank
**11** Fill point for fuel
**12** Fill point for hydraulic fluid
**13** Guide bar latch (when transporting)

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# Operation

## Before Starting the Engine

**1** For your own safety (and others) and for a maximum service life of your machine, do a pre-start inspection before starting the engine.

**2** If you have not already done so, do a walk round inspection of the machine. Also, complete the daily checks as detailed in the ***Service Schedules***.

**3** Remove dirt and rubbish from the machine, especially around the controls.

### ⚠ WARNING

**Keep the machine controls clean and dry. Your hands and feet could slide off slippery controls. If that happens you could lose control of the machine.**

2-2-3-6

**4** Make sure that your hands and shoes are clean and dry.

**5** Check around the machine for loose or missing bolts, screws etc. Replace or tighten where necessary.

**6** If necessary, add more fuel to the fuel tank.

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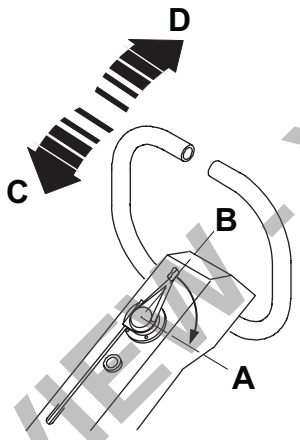
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# Getting the Machine Moving

## Operating Practices

The following instructions should be observed under all circumstances during operation of the vibrating plate:

- When moving the machine, keep it under control at all times. Stay alert for obstructions and possible hazards.
- The machine operator must not leave the machine unattended.
- Due to its method of operation, the vibrating plate causes vibrations and shocks in the ground. The user must make sure that building structures, pipes and other facilities in the vicinity are not damaged by the vibrations.
- Refuel only with the engine switched off.
- Operation of the machine on rock, concrete or any other firm, non-compactible ground is not recommended.
- If you find a defect in the operating or safety equipment, then you must stop the vibrating plate immediately.




C105610

**Fig 3.**

**A** Full speed
**B** Idling
**C** Forward
**D** Reverse

## Operating Procedure

After you have warmed up the engine, move off as described below:

**1** Put the speed/direction control into 'forward' or 'reverse', then set the throttle lever to 'full' speed.

**2** Hold the operator handle with both hands. Using the operator handle, guide the machine over the material to be compacted.

***Note:*** *The machine should only be operated at maximum speed. Lower speeds may destroy the centrifugal clutch, reduce compaction performance and effect HAV levels.*

**3** The propelling force of the machine is such that additional pushing is not necessary. It does, however, depend on the type of material to be compacted (grain size, bulk density), evenness of the soil, gradient etc.

**4** Steer the machine by moving the operator handle sideways. When the operator handle is in an upright position, the machine may be turned round.

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# Transporting the Machine

## ⚠ WARNING

**The safe transit of the load is the responsibility of the transport contractor and driver. Any machine, attachments or parts that may move during transit must be adequately secured.**

5-2-5-9

***Note:*** *Before transporting the machine make sure you will be obeying the rules and laws of all the areas that the machine will be carried through.*

Make sure that the transporting vehicle is suitable. Refer to ***Dimensions*** (SPECIFICATIONS section) for the dimensions of your machine.

**1** Place blocks at the front and rear of the trailer wheels.

**2** Lift the machine onto the trailer. Refer to ***Lifting the Machine***.

Ensure the guide bar is locked in the transport position **A** as shown.

**3** Anchor the machine to the trailer with chains.

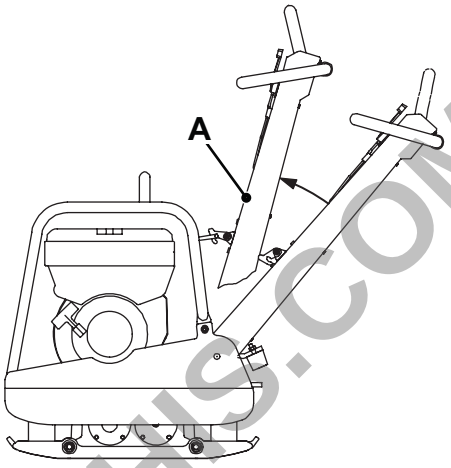
***Note:*** *Look for the Safety Label (shown below) to identify the correct positions.*



C057650

**Fig 7.**

**4** Measure the maximum height of the machine from the ground. Make sure the truck driver knows the clearance height before he drives away.




C105620

**Fig 8.**

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