

Wheeled Loading Shovel - 457

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Notes:

General Information

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Notes:



Section 1 - General Information

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Section 1 - General Information

Contents

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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:

- 457 Wheeled Loading Shovel from 1907000.

Using the Service Manual

T11-004
This publication is designed for the benefit of JCB Distributor Service Engineers who are receiving, or have received, training by JCB Technical Training Department.

These personnel should have a sound knowledge of workshop practice, safety procedures, and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment.

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

General warnings in Section 2 are repeated throughout the manual, as well as specific warnings. Read all safety statements regularly, so you do not forget them.

Renewal of oil seals, gaskets, etc., and any component showing obvious signs of wear or damage is expected as a matter of course. It is expected that components will be cleaned and lubricated where appropriate, and that any opened hose or pipe connections will be blanked to prevent excessive loss of hydraulic fluid and ingress of dirt.

Where a torque setting is given as a single figure it may be varied by plus or minus 3%. Torque figures indicated are for dry threads, hence for lubricated threads may be reduced by one third.

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.

Finally, please remember above all else safety must come first!

Section Numbering

T11-005
The manual is compiled in sections, the first three are numbered and contain information as follows:

- 1** General Information - includes torque settings and service tools.
- 2** Care and Safety - includes warnings and cautions pertinent to aspects of workshop procedures etc.
- 3** Maintenance - includes service schedules and recommended lubricants for all the machine.

The remaining sections are alphabetically coded and deal with Dismantling, Overhaul etc. of specific components, for example:

- A** Attachments
- B** Body and Framework, etc.

Section contents, technical data, circuit descriptions, operation descriptions etc. are inserted at the beginning of each alphabetically coded section.

Left Side, Right Side

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

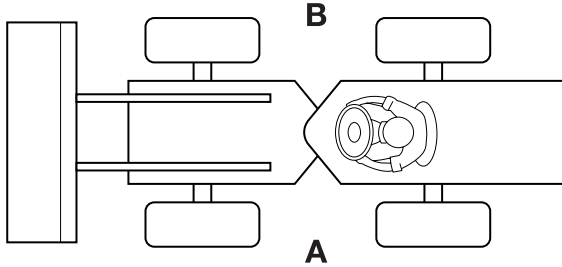


Fig 1.

T033800-1

Cross References

T1-004_2

In this publication, page cross references are made by presenting the subject title printed in bold, italic and underlined. It is preceded by the 'go to' symbol. The number of the page upon which the subject begins, is indicated within the brackets. For example: [⇒ ***Cross References*** \(□ 1-2\).](#)

Identifying Your Machine

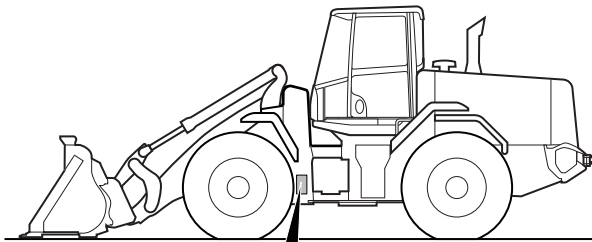
Machine Identification Plate

Your machine has an identification plate mounted as shown. The serial numbers of the machine and its major units are stamped on the plate.

Note: The machine model and build specification is indicated by the PIN. Refer to **Typical Product Identification Number (PIN)**.

The serial number of each major unit is also stamped on the unit itself. If a major unit is replaced by a new one, the serial number on the identification plate will be wrong. Either stamp the new number of the unit on the identification plate, or simply stamp out the old number. This will prevent the wrong unit number being quoted when replacement parts are ordered.

The machine and engine serial numbers can help identify exactly the type of equipment you have.



J.C.B. EARTHMOVERS LIMITED LAKESIDE WORKS, ROCESTER UTTOXETER, UNITED KINGDOM ST14 5JP	
VIN Vehicle Identification Number	PIN Product Identification Number
ENGINE SERIAL NUMBER	FRONT AXLE SERIAL NUMBER
TRANSMISSION SERIAL NUMBER	REAR AXLE SERIAL NUMBER
WEIGHT kg	YEAR OF CONST.
	ENGINE POWER kW @ RPM
MACHINE TYPE	HOMOLOGATION No.

Fig 2.

T033550-2

Typical Product Identification Number

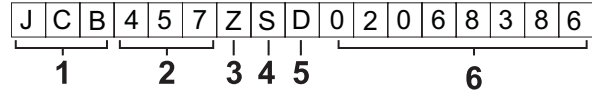


Fig 3.

T033160-9

- 1 World Manufacturer Identification (3 Digits)
 - 2 Model Number (3 Digits)
 - 3 Loader End Type (1 Digit)
 - O = HT Loader End
 - Z = ZX Loader End
 - 4 Designation (1 Digit)
 - S = Farmmaster
 - O = Non Farmmaster
 - I = India
 - 5 Year of Manufacture (1 Digit)

7 = 2007	A = 2010
8 = 2008	B = 2011
9 = 2009	C = 2012
 - 6 Machine Serial Number (8 Digits)
- Each machine has a unique serial number.

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