

## JS175W Auto

[Section 1 - General Information](#)

[Section 2 - Care & Safety](#)

[Section 3 - Routine Maintenance](#)

[Section B - Body & Framework](#)

[Section C - Electrics](#)

[Section D - Controls](#)

[Section E - Hydraulics](#)

[Section F - Transmission](#)

[Section K - Engine](#)



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## General Information

[Section 1 - General Information](#)

[Section 2 - Care & Safety](#)

[Section 3 - Routine Maintenance](#)

[Section B - Body & Framework](#)

[Section C - Electrics](#)

[Section D - Controls](#)

[Section E - Hydraulics](#)

[Section F - Transmission](#)

[Section K - Engine](#)



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# Section 1 - General Information

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<b>Contents</b>	<b>Page No.</b>
<b>Introduction</b>	
About this Publication .....	1 - 1
Schematic Codes .....	1 - 2
<b>Identifying your Machine</b>	
Identification Plates .....	1 - 3
<b>Torque Settings</b>	
Zinc Plated Fasteners and Dacromet Fasteners .....	1 - 5
Hydraulic Connections .....	1 - 9
<b>Service Tools</b>	
Numerical List Section B - Body and Framework .....	1 - 13
Tool Detail Reference Section B - Body and Framework .....	1 - 14
Numerical List Section C - Electrics .....	1 - 17
Tool Detail Reference Section C - Electrics .....	1 - 18
Numerical List Section E- Hydraulics .....	1 - 19
Tool Detail Reference Section E- Hydraulics .....	1 - 21
<b>Service Consumables</b>	
Sealing and Retaining Compounds .....	1 - 29



# Section 1 - General Information

---

Contents

Page No.

# Introduction

## About this Publication

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.

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. Finally, please remember above all else **SAFETY MUST COME FIRST!**

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 & Safety - includes warnings and cautions pertinent to aspects of workshop procedures etc.
- 3 Routine 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 & Framework...etc.

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

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.








'Left Hand' and 'Right Hand' are as viewed from the rear of the machine facing forwards.

This Service Manual covers the following machines:  
JS175W

## Schematic Codes

### Colour Codes

The following colour coding, used on illustrations to denote various conditions of oil pressure and flow, is standardised throughout JCB Service Publications.

	<b>Red</b>	<b>Full Pressure:</b> Pressure generated from operation of a service. Depending on application this may be anything between neutral circuit pressure and MRV operating pressure.
	<b>Pink</b>	<b>Pressure:</b> Pressure that is above neutral circuit pressure but lower than that denoted by Red.
	<b>Orange</b>	<b>Servo:</b> Oil pressure used in controlling a device (servo).
	<b>Blue</b>	<b>Neural:</b> Neutral circuit pressure.
	<b>Green</b>	<b>Exhaust:</b>
	<b>Light Green</b>	<b>Cavitation:</b> Oil subjected to a partial vacuum due to a drop in pressure (cavitation).
	<b>Yellow</b>	<b>Lock Up:</b> Oil trapped within a chamber or line, preventing movement of components (lock up).



# Identifying your Machine

## Identification Plates

### Data Plate

Your machine has a Data Plate, located on the outside the cab as shown at **A**. The machine serial number is inscribed at **B** which is the baseplate of the rear frame and the engine number is at **C**.

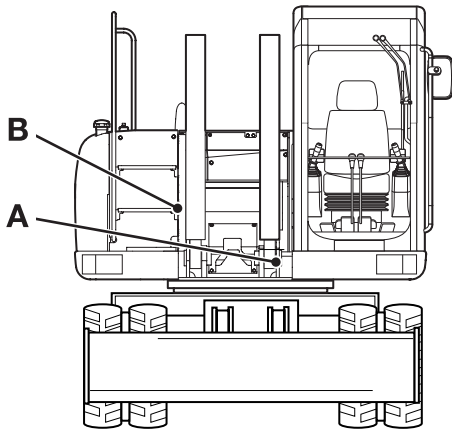


Fig 1.

### Typical Product Identification Number (PIN)

1	2	3	4	5
JCB	JW175	C	6	1018354

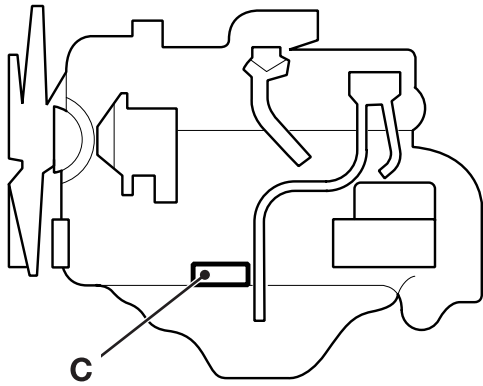
- 1 World Manufacturer Identification (JCB)
- 2 Machine Type and Model ( JW175 = JS175 Wheeled)
- 3 Randomly generated check letter.
- 4 Year of Manufacture (1 = 2001, 2 = 2002, 3 = 2003, 4 = 2004, 5 = 2005, 6 = 2006)
- 5 Machine Serial Number (1018354)

	JCB HEAVY PRODUCTS LTD LAKESIDE WORKS ROCESTER UNITED KINGDOM ST14 5JP	
<input style="width: 100%;" type="text"/>		
PIN	Product Identification Number	ISO 10261
MACHINE TYPE	<input style="width: 100%;" type="text"/>	
OPERATING MASS kg ISO 6016	<input style="width: 100%;" type="text"/>	
ENGINE SERIAL No.	<input style="width: 100%;" type="text"/>	
ENGINE POWER kw / RPM ISO 14396	<input style="width: 100%;" type="text"/>	
CONSTRUCTION YEAR	<input style="width: 100%;" type="text"/>	

Fig 2.

### Typical Engine Identification Number

If the engine is replaced by a new one, the data plate serial number will be wrong. Either stamp the new number on the plate or stamp out the old one. This will prevent the wrong number being quoted when you order replacement parts.



**Fig 3.**

a	b	c	d	e
AB	50316	J	000001	2

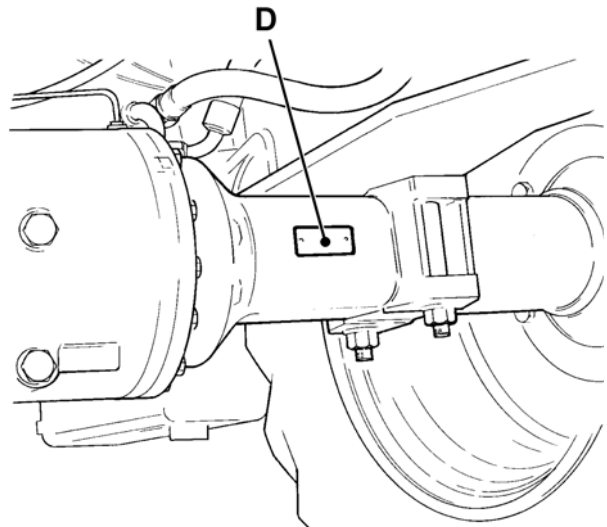
- a Engine Type (AB= 4 cylinder turbo)
- b Engine Parts List
- c Country of Manufacture
- d Engine Serial Number
- e Year of Manufacture

### Axle Serial Plate

The axle serial number is stamped on a plate mounted to the rear face of the axle.

When replacement parts are required, always ensure that the correct parts are obtained, e.g. in the case of gear replacements, always check the part number stamped on the gear, and the number of teeth.

When ordering replacement parts, quote the details on the serial plate as shown.



**Fig 4.**

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**[admin@servicemanualbit.com](mailto:admin@servicemanualbit.com)**