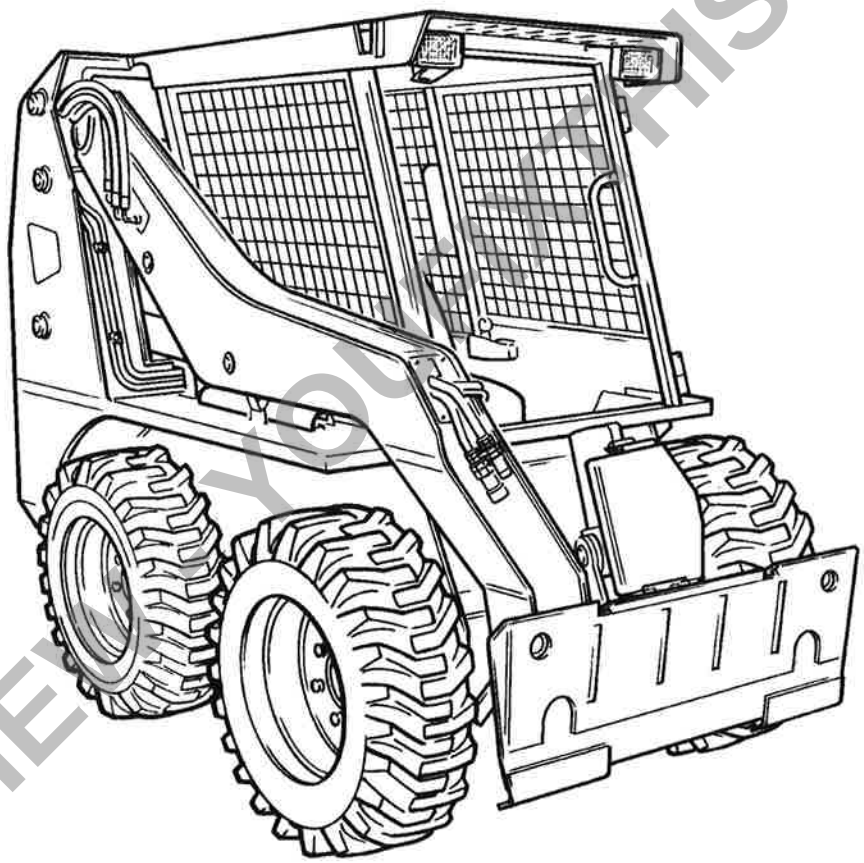
Operator Handbook

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ROBOT 150, 165, 165HF Series 3

from serial no. 678000

! THIS HANDBOOK MUST BE KEPT IN THE MACHINE AT ALL TIMES !

Publication Number 9801/4170

October 99 Issue 9

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SAFETY NOTICES

⚠ WARNING

Study This Handbook Before Starting The Machine

You must understand and follow the instructions in this handbook. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB distributor or employer. **Do not guess**, you or others could be killed or seriously injured.

INT-1-1-1

⚠ CAUTION

Do not fit an attachment to this machine which is not JCB approved. Consult your JCB distributor before fitting any non approved attachment.

8-4-1-6

In this handbook and on the machine there are safety notices. Each notice starts with a signal word. The meanings of the signal words 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

MACHINE SECURITY

Vandalism and theft of unattended machines is an ever increasing problem and JCB is doing everything possible to help combat this.

JCB PLANTGUARD is a comprehensive package available to help you safeguard your machine. It includes such devices as vandal proof covers, window etching, immobiliser, concealed serial number, battery isolator, Tracker security system and much more.

Remember that the fitting of any one of these security devices will help to minimise not only the damage or loss of your machine but also subsequent lost productivity. It could also result in reduced insurance premiums.

Your JCB Distributor or Dealer will be pleased to provide information on any of these sensible precautions. ACT NOW!

INT-1-2-4

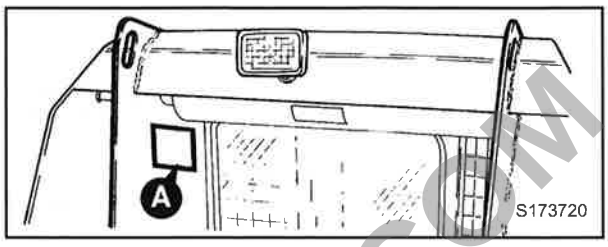
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IDENTIFYING YOUR MACHINE

Machine Identification Plate

The machine identification plate **A** is located as shown. It is stamped with the machine serial number and the serial numbers of the major individual units.



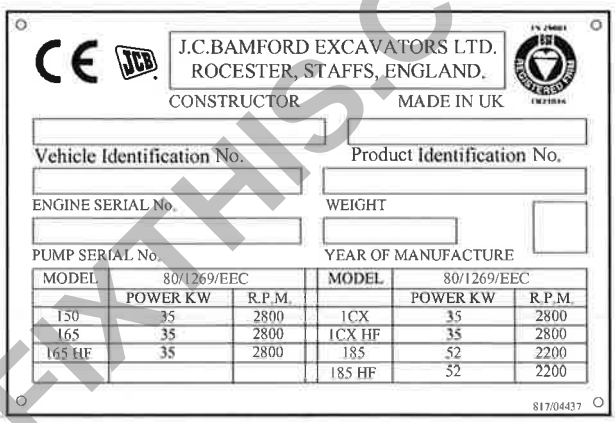
Typical Vehicle Identification Number (VIN)

SLP	165	S	B	V	E	677001
1	2	3	4	5	6	7

1. World Manufacturer Identification
2. Machine Model
3. Machine Type (S = Standard, H = High-flow)
4. Build Type (A = Canopy, B = Cab)
5. Year of Manufacture:

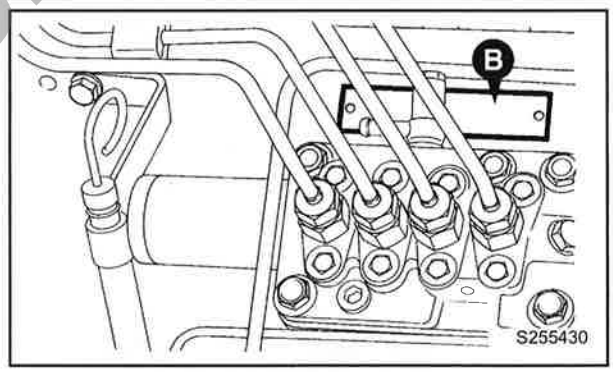
T = 1996	1 = 2001
V = 1997	2 = 2002
W = 1998	3 = 2003
X = 1999	4 = 2004
Y = 2000	5 = 2005

6. Manufacturer Location (E = England)
7. Product Identification Number (PIN)



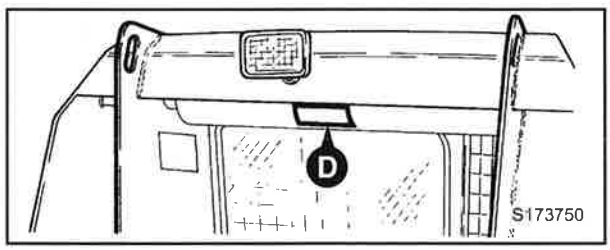
Unit Identification

The engine serial number is stamped on a label **B** on the left side of the cylinder block.



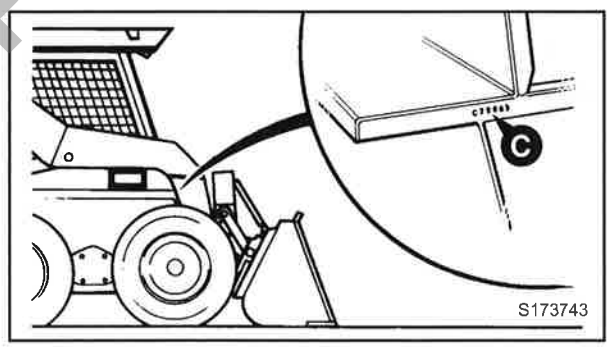
The chassis serial number is stamped on the front edge of the right hand mudguard as shown at **C**.

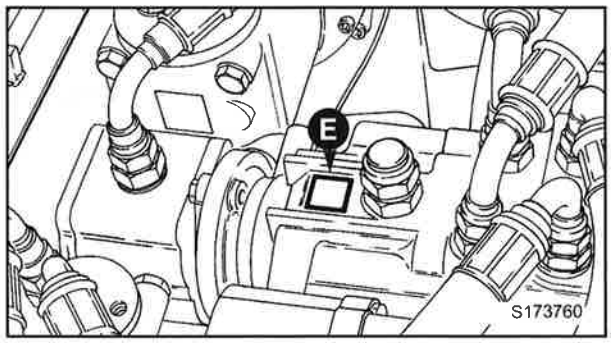
The lift arm serial number is stamped on the rear of the lift arm as shown at **D**.



The hydraulic pump unit serial number is stamped on a plate on the top of the pump at **E**.

If any of the above units are replaced with new ones, the relevant serial number on the Machine Identification Plate will be superseded. Either stamp the plate with the new number or stamp out the old number.





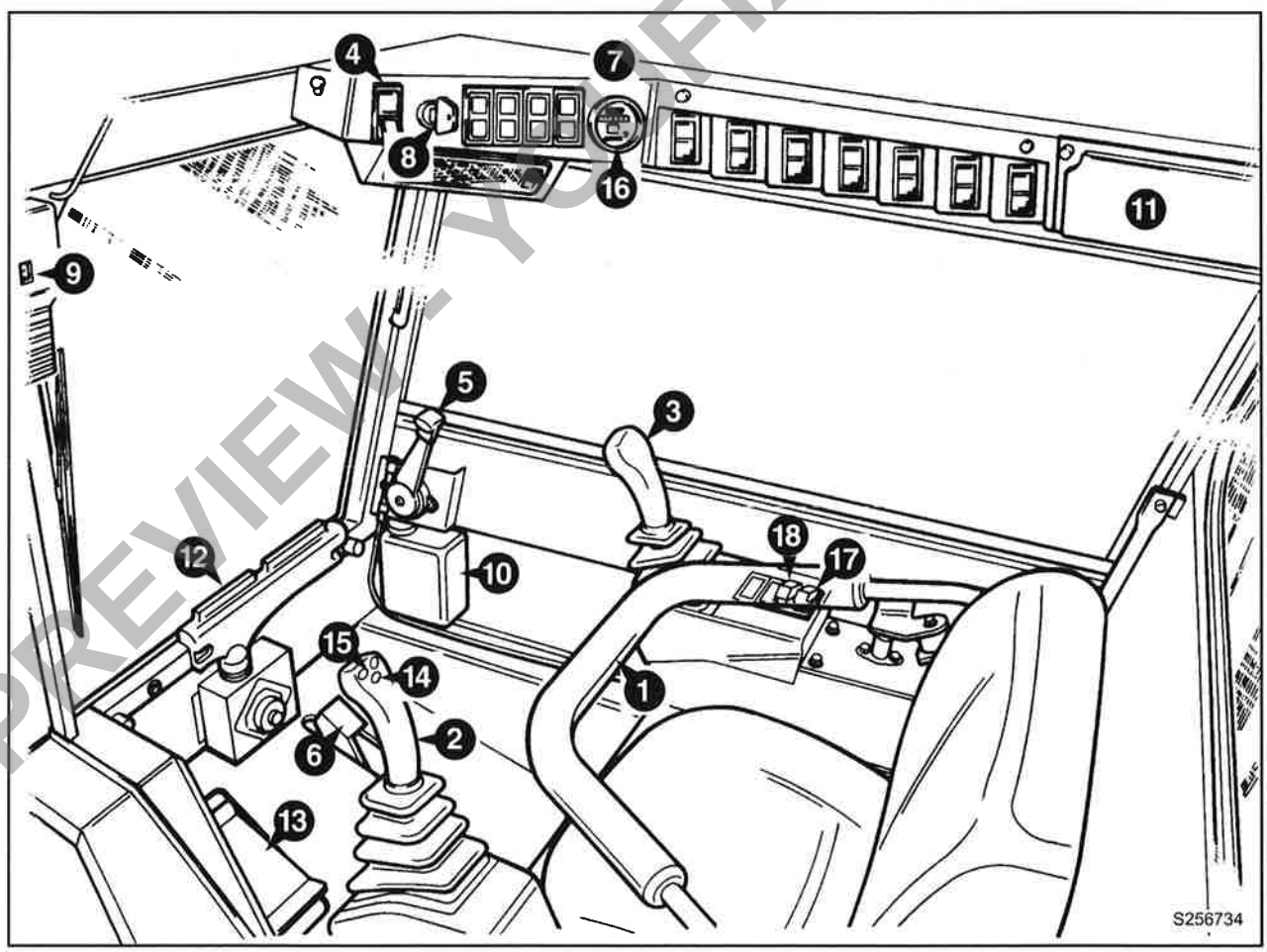
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CONTROLS, SWITCHES AND INSTRUMENTS

Cab Layout - Servo Machines

1 Safety Restraint Bar
2 Left Hand Control Lever
3 Right Hand Control Lever
4 Parking Brake Control Switch
5 Hand Throttle Lever
6 Throttle Foot Pedal (optional)
7 Instrument Panel
8 Starter Switch
9 Windscreen Wiper Switch (optional)
10 Windscreen Washer Bottle (optional)
11 Fuse Box
12 Heater Air Vents (optional)
13 Auxiliary Attachments Control (optional)
14 Horn Push
15 Direction Indicator Switches
16 Hourmeter
17 High-Flow Hydraulic Switch (optional)
18 Float/Hand Held Attachments Control Switch (optional)



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DRIVING THE MACHINE (continued)

Operating Hints

⚠ WARNING

Drive the machine smoothly. Avoid repeated start/stop or spin turn manoeuvres. Avoid unnecessary zig-zag driving.
8-1-2-2

Avoid exaggerated movements of the lever(s) which could cause the machine to go out of control through violent changes of speed and/or direction.

When moving off from rest, gently move the Drive Control Lever(s) from the neutral position. Gradually increase the lever movement until the desired speed is reached.

⚠ WARNING

You or others can be killed or injured if you suddenly change from forward to reverse, or vice versa, whilst travelling. The machine will immediately reverse direction without warning to others. Always follow the recommended procedure for changing between forward and reverse drive.
3-2-1-5

When changing between forward and reverse drive, **always** bring the machine to rest first by progressively moving the Drive Control Lever(s) into the neutral **N** position.

Always negotiate a turn by gentle, progressive use of the lever(s) until the required rate of turn is achieved, and straighten up in the same way afterwards. Never suddenly change from a turn in one direction to a turn in the opposite direction.

When moving the machine, stay alert for obstructions and possible hazards.

When travelling downhill, adjust the forward/reverse setting of the Drive Control Lever(s) to achieve a suitable, steady speed.

When driving, if the engine gets overloaded and seems likely to stall, ease off the Drive Control Lever(s) to allow the engine speed to pick up again.

When overloading of the engine seems to be a recurring problem, increase the setting of the Hand Throttle Lever if the engine is not already running at its preset maximum speed. If the engine is already running at its maximum speed, reduce the load by easing off the Drive Control Lever(s).

⚠ CAUTION

If the machine should accidentally tip forward, stop the engine as soon as possible and check the engine oil level. Some oil loss can occur if this happens.
3-2-1-10

Before attempting to drive the machine, read the **Operating Hints** and **WARNINGS** first.

Getting Moving

1 Check your Seat and Seat Belt

Make sure that the seat is correctly adjusted. Make sure that your seat belt is correctly fastened and adjusted.

2 Enable the Hydraulic Controls

Lower the Safety Restraint Bar until it latches (see ***Entering the Cab***). Ensure that the door is closed and latched.

3 Start the Engine

Start the engine and set the Hand Throttle Lever (see ***Starting the Engine***).

4 Select Forward/Reverse to Move Off

a Check that the shovel/attachment is in the travel position.
b Release the Parking Brake (see ***Controls***).
c Make sure it is safe to move off, then slowly operate the Drive Control Lever(s) to forward **F** or reverse **R** as required. The machine will move smoothly away.

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SHOVELS

The following are some of the shovels that are available for the Skid Steer Loader.

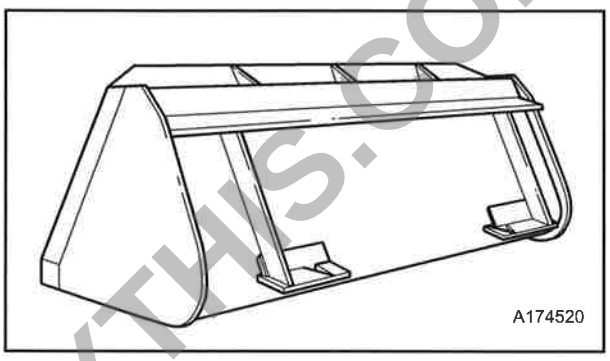
			Machine
General Purpose Shovel	0.29 m³	(10.25 ft³)	150
	0.37 m³	(13.07 ft³)	165
Light Duty Shovel	0.40 m³	(14.13 ft³)	150
	0.57 m³	(20.13 ft³)	165

Note that Light Duty Shovels can only handle material with a bulk density of less than 750 kg/m³ (46.80 lb/ft³).

Heavy Duty Shovel	0.29 m³	(10.25 ft³)	150
	0.35 m³	(12.36 ft³)	165
6-in-1 Shovel	0.25 m³	(8.83 ft³)	150
	0.27 m³	(9.53 ft³)	165
	0.30 m³	(10.59 ft³)	165

Contact your JCB Distributor for information on additional shovels for special applications.

Most attachments have an integral framework, such as the one shown below, to make them Quickhitch compatible. Others such as the Earth drill, Hammer and compactor require a separate frame, (see ***Attachment Frame***). Consult the relevant attachment literature or your JCB Distributor as to the framework required.



Typical Quickhitch Attachment Framework

6-IN-1 SHOVEL

The 6-in-1 shovel allows you to load, dig, grab, grade, doze and spread without changing attachments.

It is similar to a normal shovel except that it has an opening clam which is operated by hydraulic rams mounted on the bucket frame.

Safety

Obey all the safety instructions given in the main part of this book, plus those given in this section.

Operation

Practise using the 6-in-1 shovel off the job before working with it for the first time.

Preparing for Travel

Close the clam then treat as a standard shovel.

Control

The lift, lower, open and close movements of the 6-in-1 shovel are controlled by the loader control lever(s) (see ***Loader Controls*** *OPERATION section*).

The shovel clam is operated either by a foot pedal, see ***Auxiliary Attachments Control Pedal***, or by the right hand control lever, see ***Auxiliary Attachments Control Lever (optional - manual machines)***.

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MOVING A DISABLED MACHINE

It is only possible to tow or winch the JCB Skid Steer Loader for short distances at slow speed in a straight line. This is because the steering function is inoperative unless the machine is being self-propelled.

If at all possible repair the disabled machine where it stands.

If the machine needs to be returned to the workshop for repair, it must be winched onto a trailer or lifted onto a truck for transportation.

The procedure for preparing the machine for winching is very complicated and must only be carried out by a JCB Distributor.

TRANSPORTING THE MACHINE

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: Make sure that the transporting vehicle is suitable. See ***Static Dimensions*** *in SPECIFICATIONS section* for the dimensions and weight of your machine.

Using a Trailer

⚠ WARNING

Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Remove oil, grease and ice from the machine tyres. Make sure the machine will not foul on the ramp angle. See Static Dimensions in SPECIFICATIONS section for the minimum ground clearance of your machine.
2-2-7-5/1

1 Position the Trailer

- **a** If the machine is disabled it will be necessary to align the trailer with the rear of the machine.
- **b** For an operational machine any convenient position will be suitable.

2 Block the Trailer Wheels and Position the Ramps

- **a** Place blocks at the front and rear of the trailer wheels.
- **b** Make sure the ramps are correctly in place and secure.

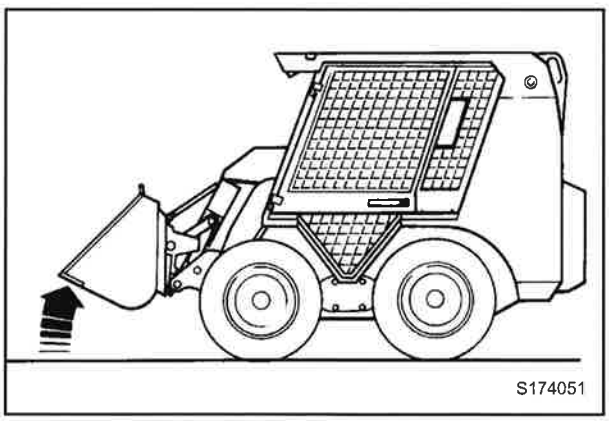
3 Loading a Disabled Machine onto the Trailer

The trailer must be equipped with a winch to pull the machine aboard.

- **a** Position the trailer as in **1a**.
- **b** Connect the winch cable to the towing hitch on the back of the machine.
- **c** Release the machine brakes (see ***Moving a Disabled Machine***).
- **d** Operate the winch and pull the machine onto the trailer until the shovel/attachment is well inside the back end of the trailer.
- **e** Secure the cab.
- **f** Anchor the machine (see ***Transportation Safety***).

4 Loading a Serviceable Machine onto the Trailer

- **a** Raise the loader arm to position the shovel/attachment approximately 305 mm (8 in) from the ground.
- **b** Carefully reverse the machine onto the trailer.
- **c** When the machine is safely in position, lower the loader arm to its lowest position.
- **d** Switch off the engine.
- **e** Check that the overall height of the load is within regulations. Adjust if necessary.
- **f** Secure the cab.
- **g** Anchor the machine (see ***Transportation Safety***).



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