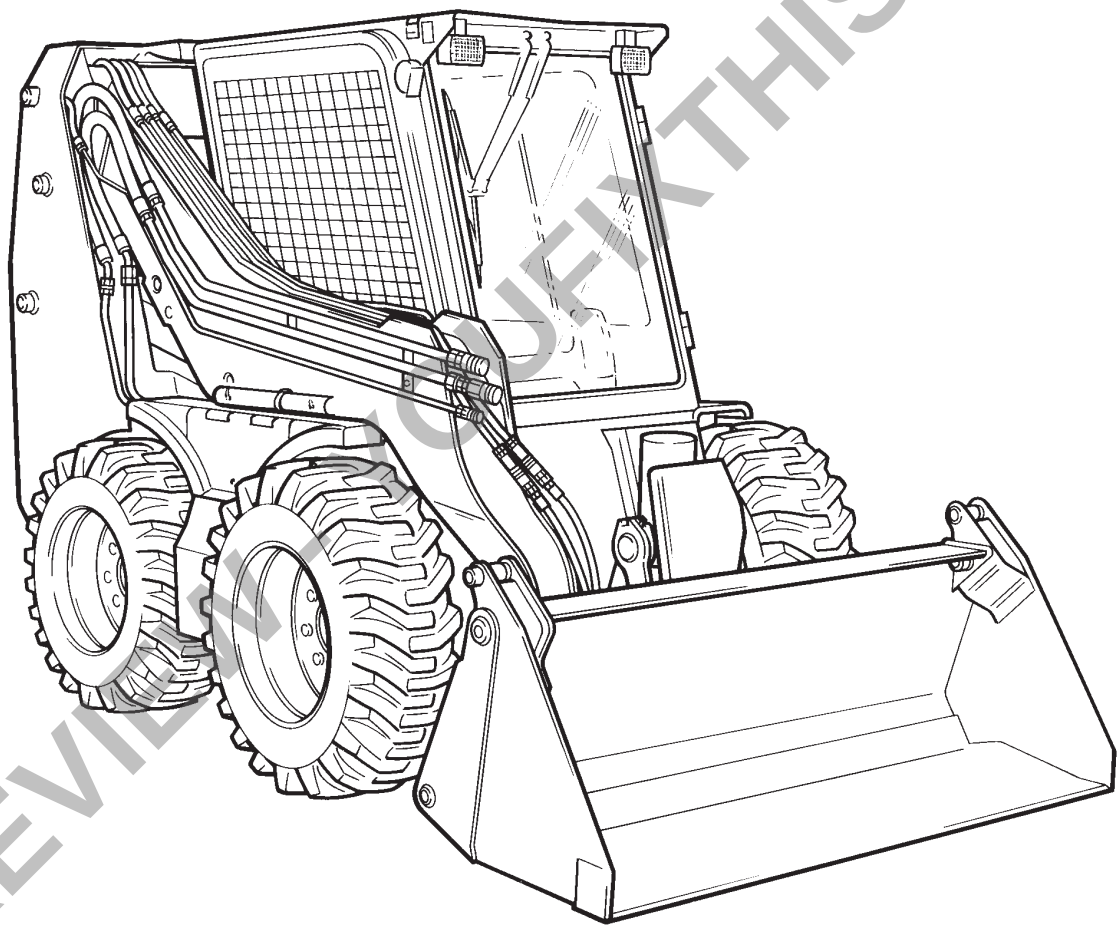
Operator Handbook

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ROBOT 185, 1105

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

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⚠ 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!

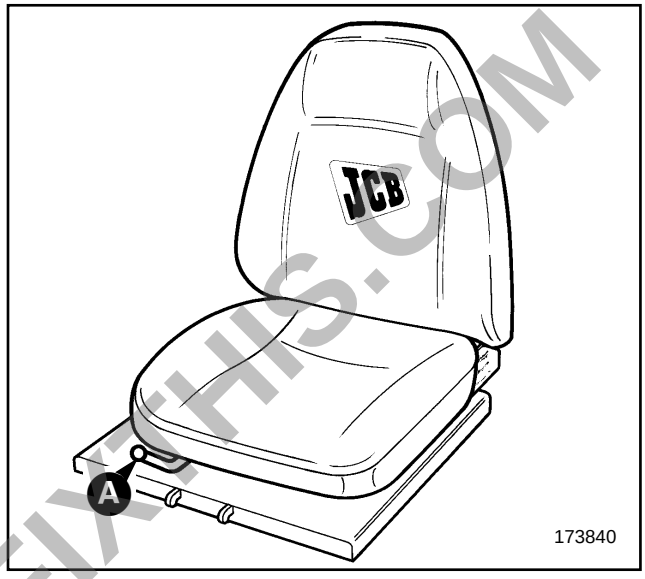
INT-1-2-4

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SEAT ADJUSTMENT AND REMOVAL/REPLACEMENT

Adjustment

The operator's seat can be adjusted forwards or backwards for comfort. A correctly adjusted seat will reduce operator fatigue. Position the seat so that you can comfortably reach the controls.

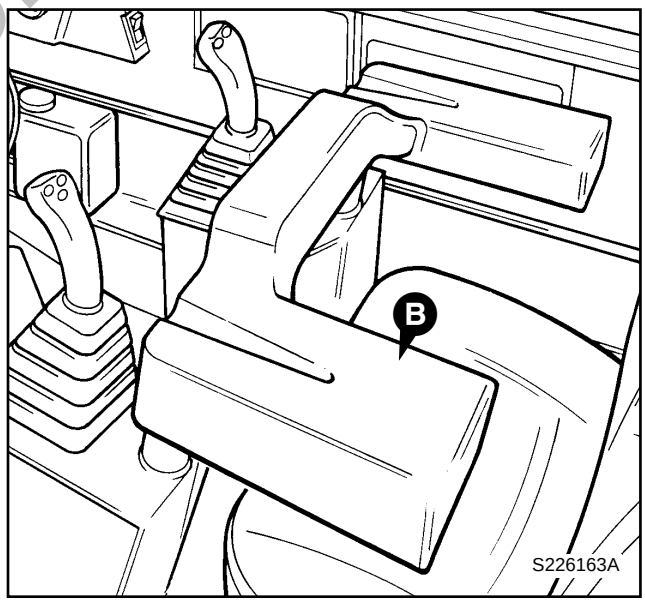


1 Lift handle **A** upwards and slide the seat forwards or backwards to the required position.

2 Release handle **A** and make sure the seat locks into position.

Removal/Replacement

It may be necessary to remove the operator's seat in order to gain access to the hydraulic pumps and motors.



1 Tilt the Hydraulic Safety Restraint Bar **B** forwards.

2 Release the two latches behind the seat and tilt the seat forwards as far as possible. The seat and mounting plate can then be lifted clear.

3 Replacement is the reverse of the removal procedure.

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CAB LAYOUT
(up to machine no. 746283)

1 Hydraulic Controls Safety Restraint Bar

2 Restraint Bar Release Lever

3 Drive Control Lever

4 Loader Arm/Shovel Control Lever

5 Parking Brake Control Switch

6 Hand Throttle Lever

7 Throttle Foot Pedal

8 Warning Indicators

9 Starter Switch

10 Windscreen Wiper Switch (optional)

11 Windscreen Washer Bottle (optional)

12 Fuse Box

13 Heater Air Vents (optional)

14 Auxiliary Attachments Control Switch

15 Horn Push

16 Direction Indicator Switch (optional)

17 Two Speed Drive Button

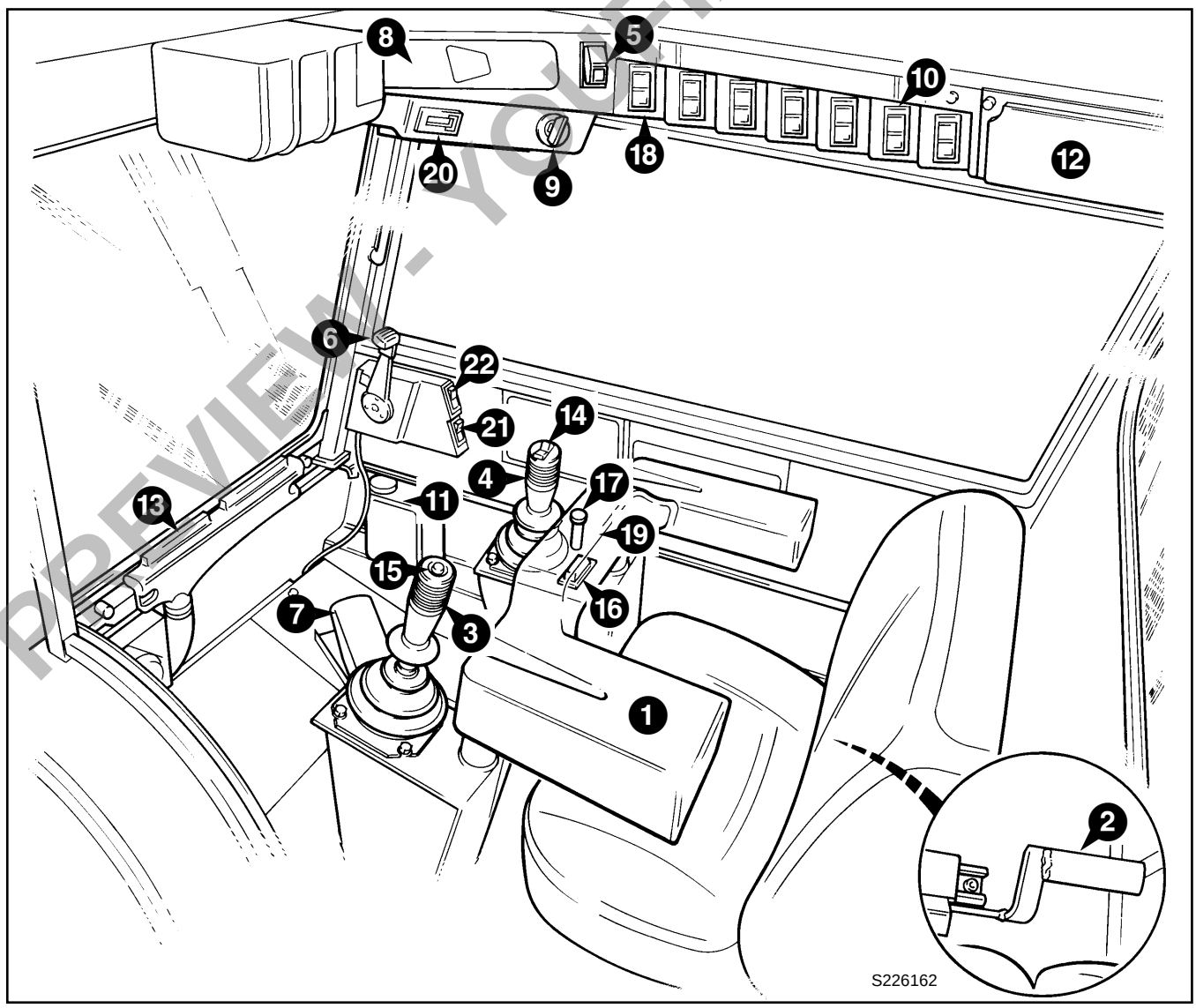
18 Auxiliary Attachments Detent Switch

19 Operating Symbols

20 Hourmeter

21 High-Flow Hydraulic Switch (optional)

22 Float/Hand Held Attachments Control Switch (optional)



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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.

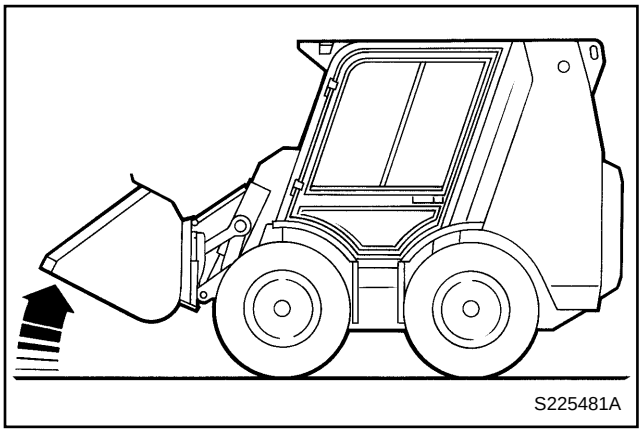
3 Loading a Disabled Machine onto the Trailer

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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LUBRICANTS - HEALTH AND SAFETY

It is most important that you read and understand this information and the publications referred to. Make sure all your colleagues who are concerned with lubricants read it too.

Hygiene

JCB lubricants are not a health risk when used properly for their intended purposes.

However, excessive or prolonged skin contact can remove the natural fats from your skin, causing dryness and irritation.

Low viscosity oils are more likely to do this, so take special care when handling used oils, which might be diluted with fuel contamination.

Whenever you are handling oil products you should maintain good standards of care and personal and plant hygiene. For details of these precautions we advise you to read the relevant publications issued by your local health authority, plus the following.

Storage

Always keep lubricants out of the reach of children.

Never store lubricants in open or unlabelled containers.

Waste Disposal

All waste products should be disposed of in accordance with all the relevant regulations.

The collection and disposal of used engine oil should be in accordance with any local regulations. Never pour used engine oil into sewers, drains or on the ground.

Handling

New Oil

There are no special precautions needed for the handling or use of new oil, beside the normal care and hygiene practices.

Used Oil

Used engine crankcase lubricants contain harmful contaminants.

Here are precautions to protect your health when handling used engine oil:

1 Avoid prolonged, excessive or repeated skin contact with used engine oils.

2 Apply a barrier cream to the skin before handling used engine oil.

3 Note the following when removing engine oil from skin:

- **a** Wash your skin thoroughly with soap and water.
- **b** Using a nail brush will help.
- **c** Use special hand cleansers to help clean dirty hands.
- **d** Never use petrol, diesel fuel, or paraffin for washing.
- **e** Avoid skin contact with oil soaked clothing.
- **f** Don't keep oily rags in pockets.
- **g** Wash dirty clothing before re-use.
- **h** Throw away oil-soaked shoes.

First Aid - Oil

Eyes
In the case of eye contact, flush with water for 15 minutes. If irritation persists, get medical attention.

Swallowing
If oil is swallowed do not induce vomiting. Get medical advice.

Skin
In the case of excessive skin contact, wash with soap and water.

Spillage

Absorb on sand or a locally approved brand of absorbent granules. Scrape up and remove to a chemical disposal area.

Fires

Extinguish with carbon dioxide, dry chemical or foam. Fire-fighters should use self-contained breathing apparatus.

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SERVICE SCHEDULES

A badly maintained machine is a danger to the operator and the people working around him. Make sure that the regular maintenance and lubrication jobs listed in the service schedules are done to keep the machine in a safe and efficient working condition.

⚠ WARNING

Maintenance must be done by suitably qualified personnel. Before attempting any maintenance work, make sure the machine is safe. Park on level ground. If it is necessary to work with the loader arm raised, then the loader arm safety strut must be fitted, as shown in Loader Arm Safety Strut in MAINTENANCE section.
2-3-1-1

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check on the hourmeter readings. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

Every 10 Operating Hours or Daily whichever occurs first (for the first 50 Operating Hours only)

Check
1 Tightness of wheel bolts

Every 10 Operating Hours or Daily whichever occurs first

Clean
1 Machine generally, including cab interior

Check (Engine Stopped)
1 Generally for damage, including ROPS/FOPS structure
2 Engine coolant level and condition
3 Hydraulic fluid level
4 Hydraulic system for leaks
5 Engine oil level and condition
6 Engine generally for leaks
7 Tyre pressures and condition
8 Windscreen washer level (if fitted)
9 Seat belt condition and security

Check (Engine Running)
1 Warning lights extinguished
2 Operation of all electrical equipment
3 Operation of all hydraulic services

Grease
1 Quickhitch pivot pins

Every 50 Operating Hours or Weekly whichever occurs first

Do the Daily jobs plus:

Check (Engine Stopped)
1 Oil cooler connections
2 Radiator hoses and condition
3 Alternator belt tension
4 Fuel filter and sedimenter (drain if necessary)

Check (Engine Running)
1 Fuel system for leaks and contamination
2 Exhaust for excessive smoke

Grease
1 Loader arm pivot points
2 Lift and compensating ram pivots

After the First 100 Operating Hours only

Check (Engine Stopped)
1 Engine coolant level and condition
2 Fuel filter and sedimenter (drain if necessary)
3 Alternator belt tension
4 Exhaust system security
5 Radiator hoses and condition
6 Engine pump mounting bolts for tightness
7 Drive chain case oil levels
8 Hydraulic motor mounting bolts
9 Wheel hub mounting nuts for tightness

Check (Engine Running)
1 *Idling speed**
2 *Maximum governed speed**
3 *Pulled down speed**

Change
1 Engine oil and filter
2 Fuel filter element
3 Hydraulic fluid filter(s)

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