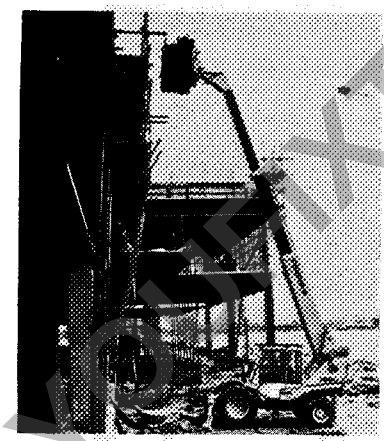
JCB

LOADALL MANUAL





520M • 525B-HL • 530B-HL

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INTRODUCTION 1

OPERATION 30-73

MAINTENANCE 90-133

SPECIFICATION 150-157

OPTIONAL ATTACHMENTS 170-199

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⚠ WARNING

STUDY THIS MANUAL BEFORE STARTING THE ENGINE

You must understand and follow the instructions in this manual. You must observe all relevant laws and regulations.

Otherwise you and/or others can be killed or injured.

01EUBL0297/1

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In this manual 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 you and/or others could be killed or permanently injured.

⚠ WARNING

Denotes a hazard exists. If proper precautions are not taken you (or others) could be killed or injured.

CAUTION

Denotes a reminder of safety practices. May also direct your attention to unsafe practices which could result in personal injury.

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SAFETY CHECK LIST
(continued)

⚠ WARNING

Tires and Rims

The tires can explode if inflated too much or if overheated. Follow the instructions in this manual for putting air in a tire.

Do not weld or cut wheel rims.

01EULD0072/1

CAUTION

Counterweights

Your machine may be fitted with counterweights. They act as a balance against the boom arrangement. They are extremely heavy.

Do not try to remove them.

01EULD0073/1

SAFETY DECALS

There are safety decals in the cab. Keep them clean and readable. Replace lost or damaged decals. The decals and their positions are shown on Pages **11-13**. Each decal has a part number printed on it. Use this number to order a new decal from your JCB dealer.

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STARTING THE ENGINE

1 Read Before Starting the Engine on Page 52

2 Put the Forward/Reverse Lever in Neutral

The engine will not start unless the forward/reverse lever is at neutral (**N**).

3 Put the Gear Shift Lever in Neutral

4 Push the Engine Stop Handle Fully Down

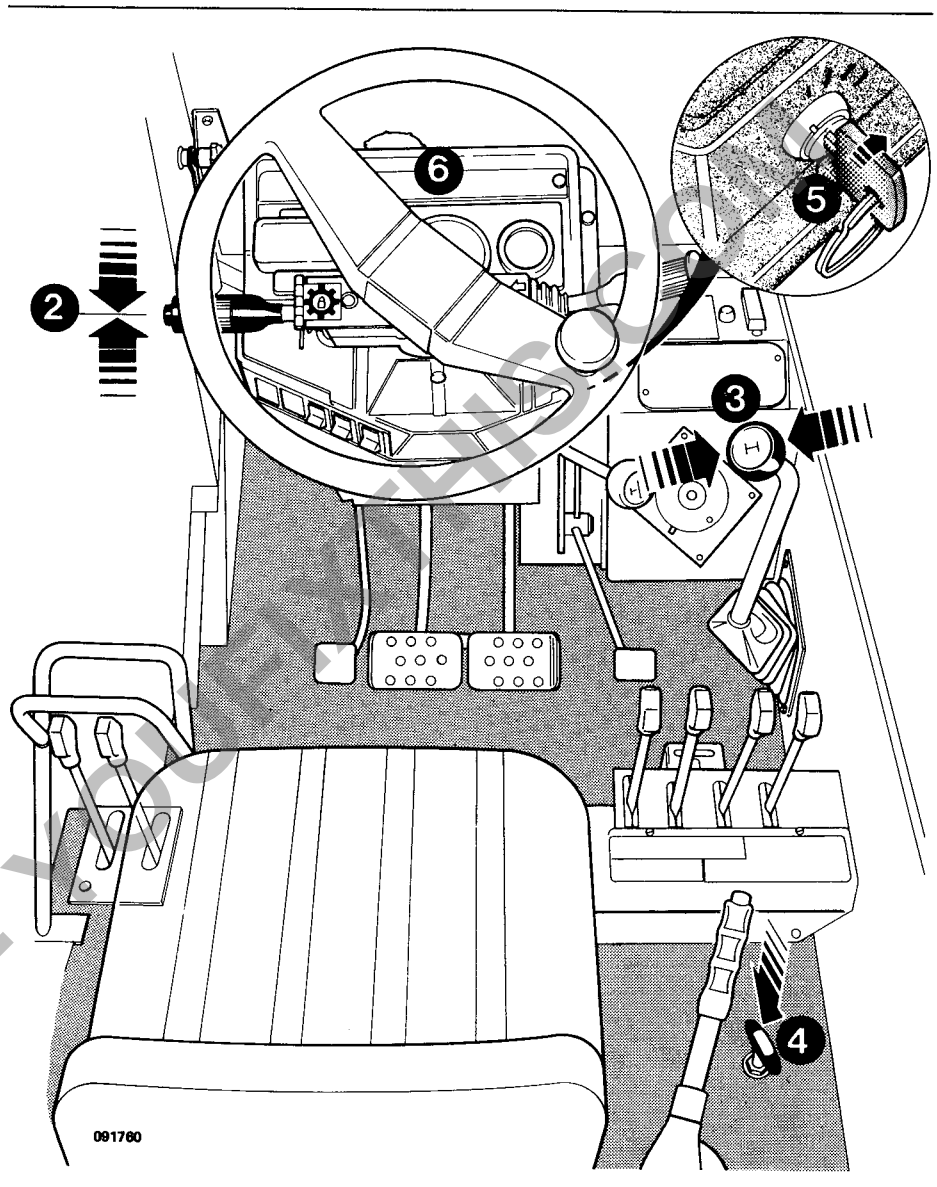
5 Start the Engine
See below.

Notice: *If your machine is turbo-charged, do not depress the accelerator fully while operating the starter. And do not race the engine until the* ***oil pressure low*** *lamp has gone out. Racing the engine too soon could damage the turbo-charger due to under-lubrication.*

If the outside temperature is low, say 32°F (0°3C) or below, turn the starter switch key to position **C** for 15 seconds to warm the engine induction manifold immediately before starting.

Fully depress the accelerator pedal and hold it down *(non-turbocharged machines only).* Turn the starter switch to position **D** and hold it there until the engine starts. Once the engine has started, release the starter key. The switch will return to position **B**. Ease off on the accelerator pedal to reduce engine speed.

If the engine has not started after 20 seconds, release the starter key. Wait two minutes before attempting another start. This will allow the starter motor to cool down.



6 Check the Indicators

Notice: *If any warning lights stay on, or come on while the engine is running, stop the engine as soon as it is safe to do so.*

Once the engine has started, check that all warning lights have gone off (except the parking brake indicator). Do not race the engine until the oil pressure low light has gone out. Check that the audible alarm is silent.

7 Warm Up the Engine and Hydraulics

Allow the engine to warm up at idle speed for five minutes. If the engine has been jump-started, remove the booster cables (Page **55**). Operate the boom a few times to help warm up the hydraulic system.

01EULD0126/1

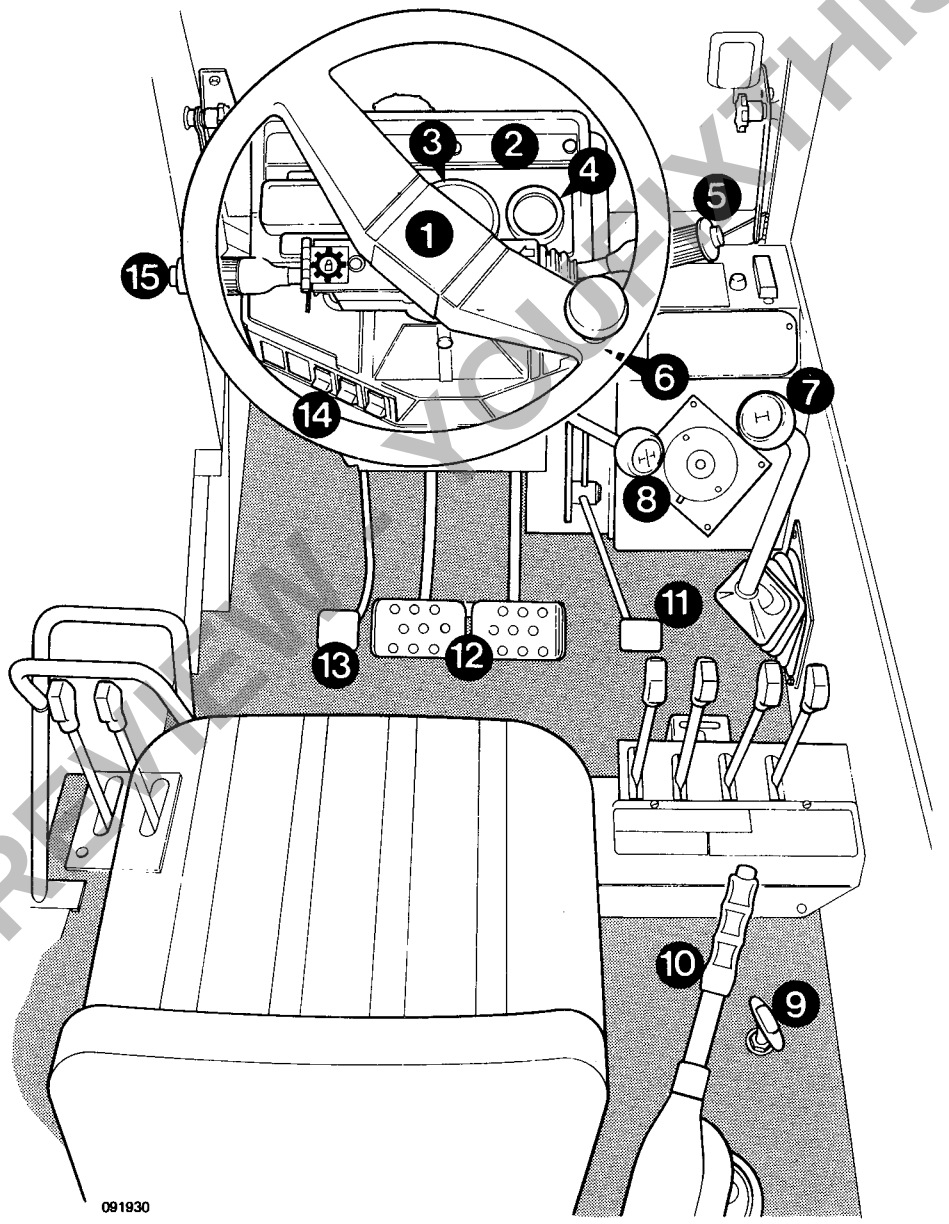
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ENGINE AND DRIVE CONTROLS, SWITCHES AND INSTRUMENTS

1 Steering wheel
2 Indicator lamps
3 Tachometer
4 Fuel gage (530B-HL only)
5 Steering column switch
6 Starter switch
7 Gear shift lever
8 Two/four wheel drive lever
9 Engine stop handle
10 Parking brake lever
11 Accelerator pedal
12 Brake pedals
13 Transmission dump pedal
14 Steering pedestal switches
15 Forward/reverse lever

01EULD0091/1



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INTRODUCTION

This chapter is arranged to guide you step-by-step through the task of learning how to operate the machine. Read it through from beginning to end. By the end of the chapter you should have a good understanding of the machine and how to operate it.

Pay particular attention to all safety messages. They are there to warn you of possible danger. Do not just read them; think about what they mean. Understand the dangers and how to avoid them. If there is anything you do not understand, ask your JCB dealer. He will be pleased to advise you.

When you have learned where the driving controls are and what they do, practice using them. Practice driving the machine in a safe, open space clear of other people. Get to know the 'feel' of the machine and its driving controls. Move on to the boom controls only when you can drive the machine confidently and safely. Take great care when practicing with the boom controls. Practice in an open space. Keep people clear. Do not jerk the controls; operate them slowly until you understand the effect they have on the machine.

Finally, do not rush the job of learning. Take your time and take it safely.

Remember

BE CAREFUL
BE ALERT
BE SAFE

01EULD0092/1

BEFORE ENTERING THE CAB

The following checks should be made each time you return to the machine after leaving it for any period of time. We advise you also to stop the machine occasionally during long work sessions and do the checks again. All these checks concern the serviceability of the machine. Some concern your safety. Get your service engineer to check and correct any defects.

⚠ WARNING

Walking or working under a raised boom can be hazardous. You could be crushed by the boom or get caught in the linkages. Lower the boom before doing these checks. If you are new to this machine, get an experienced operator to lower the boom for you.

If there is nobody to help you, study this manual until you have learned how to lower the boom. Also make sure that the parking brake is engaged before doing these checks.

01EULD0093/1

1 Check for Cleanliness

a Clean the windows, light lenses and rear view mirror(s).

b Remove dirt and debris, especially from around the linkages, cylinders, pivot points and radiator.

c Make sure the cab step and handholds are clean and dry.

***Notice:** 530B-HL. Clean the area between the inner boom end and the carriage tilt cylinder. If dirt and debris etc. is allowed to build up in that area it will restrict the cylinder's travel. If that happens, the cylinder rod can be damaged.*

d Clean all safety decals. Replace any that are missing or cannot be read.

2 Check for Damage

a Inspect the machine generally for signs of damaged and missing parts.

b Make sure that all pivot pins are secured correctly in place.

c Inspect the windows for cracks and other damage -glass splinters can blind you.

d Check for oil, fuel and coolant leakages beneath the machine.

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TRANSPORTING THE MACHINE BY TRAILER OR TRUCK

Notice: *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. See Specification for the dimensions and weight of your machine.

⚠ WARNING

Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Also remove oil, grease and ice from the machine tires.

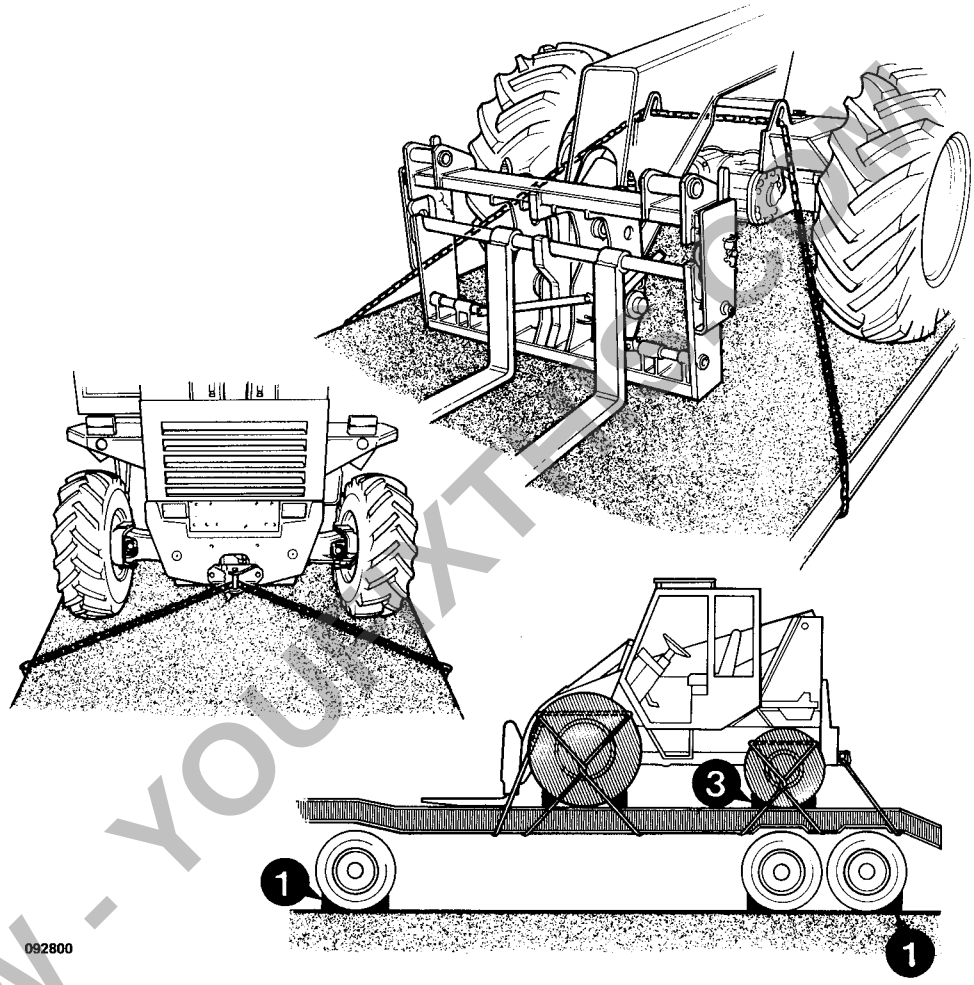
1 Block the Transporter Wheels

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

Notice: *Before moving the machine on the trailer, make sure that the machine will not foul on the ramp/trailer angle. Also make sure that the trailer is wide enough for your machine. See Specification for your machine's ground clearance and width.*

2 Move the Machine Onto the Trailer

a Make sure the ramps are correctly in place and secure.
b Set the boom as in *Preparing For Road Travel*, Page 56. *(You may have to raise the boom higher to clear the ramp.)*
c Carefully drive the machine onto the trailer.
d When the machine is safely in position, engage the parking brake and set the drive to neutral.
e Lower the carriage onto the trailer.
f Check that the overall height of the load is within the appropriate regulations. Adjust if necessary.
g Switch off the engine.
h Secure the cab door and windows.



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3 Anchor the Machine

Put blocks at the front and rear of all four tires. Anchor the machine to the trailer as shown.

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GREASING (50 HOURS)
(continued)

*Read **Greasing** for general information about greasing.*

⚠ WARNING

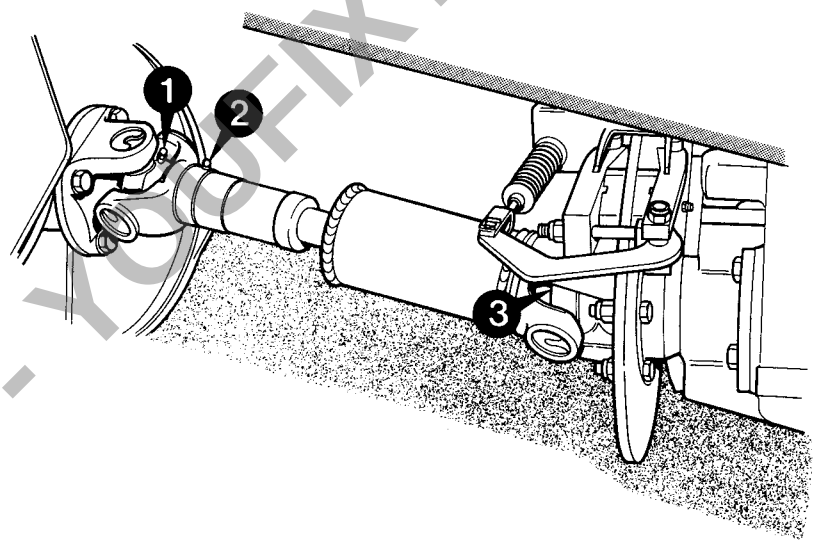
Make the machine safe before getting beneath it.

Do the following: Park on level ground. Engage the parking brake. Lower the boom attachment to the ground. Lower the stabilizers *(530B-HL).* Stop the engine, remove the starter key. Disconnect the battery. Block the wheels.

Front Driveshaft

3 Grease Points.

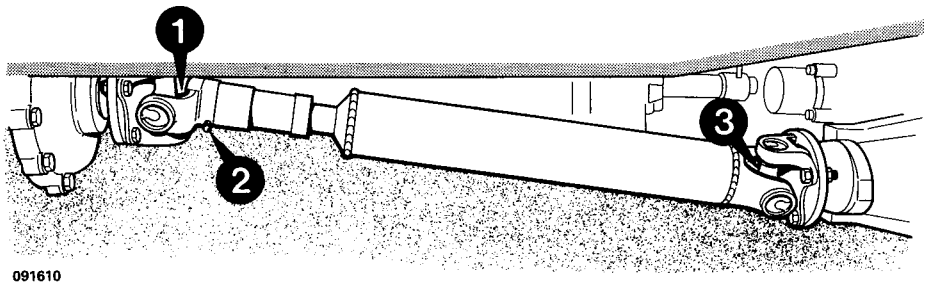
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Rear Driveshaft *(4-Wheel Drive Machines)*

3 Grease Points.

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CYLINDER CHECK VALVES (525B-HL, 530B-HL)

These prevent cylinders closing if hydraulic pressure fails or a hose bursts. They are provided for all cylinders except the 525B-HL extension cylinders.

Checking the Cylinder Check Valves

⚠ WARNING

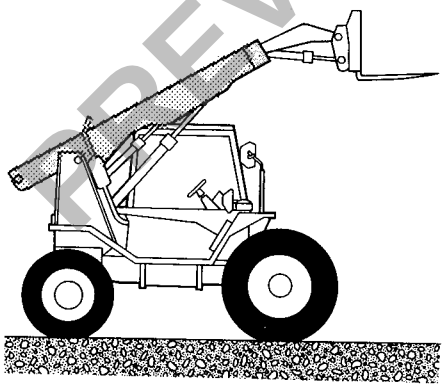
Keep people clear of the machine while you do these checks. If the hydraulic system and a check valve are faulty, the boom or carriage can swing down uncontrolled. Anyone below can then be killed or injured.

Check each movement in turn. For each movement, prepare the machine as instructed in **Step 1**. Then do the check as instructed in **Step 2**.

1 Prepare the Machine

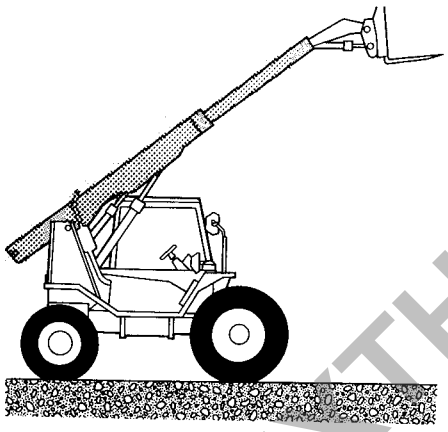
a Start the engine. Make sure that the parking brake is engaged and the forward/reverse lever and gear shift lever are at neutral.

b ***To Test the Boom Lift Cylinder*** - raise the boom to about 45°.

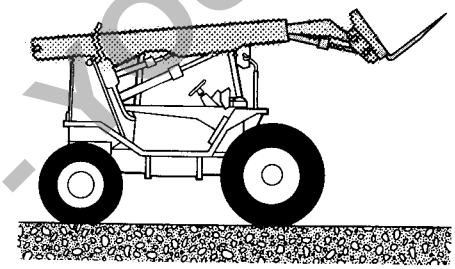


091830

c ***To Test the Boom Extension Cylinders*** *(525B-HL, 530B-HL)* - raise the boom fully; extend the boom fully.



d ***To Test the Carriage Tilt Cylinder*** - raise the boom about 6 ft (1.8 m); tilt the carriage fully back.



e ***To Test the Stabilizer Cylinders*** *(530B-HL)* - raise the stabilizers fully.

2 Do the Check

With the engine running at mid speed, operate the control lever to close the cylinder. While the cylinder is closing, pull out the engine stop lever. Cylinder movement should slow as the engine slows, and stop when the engine stops.

If the cylinder continues moving after the engine stops, the check valve is faulty. Do not use the machine until the fault has been put right.

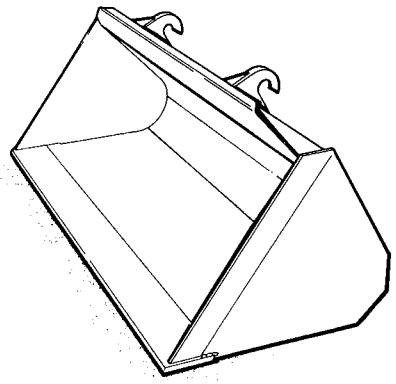
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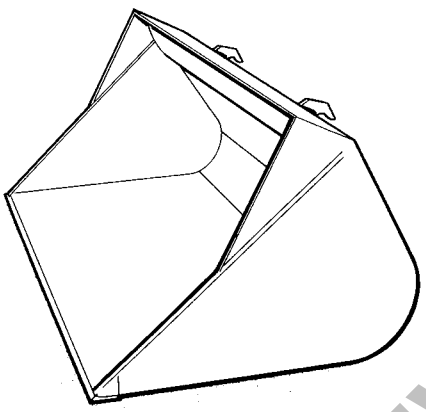
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BUCKETS

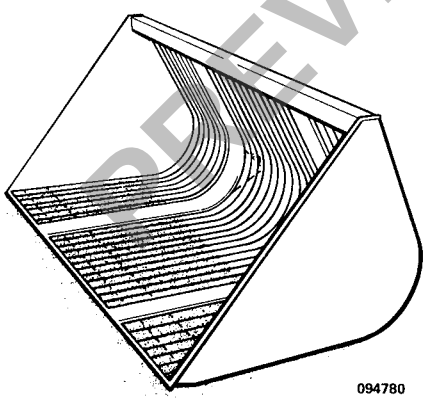
The following **Q-Fit** buckets are available as standard options for the Loadall:



Part No. 547/44300
1 cu yd General Purpose Bucket



Part No. 547/42700
2 cu yd Light Material Bucket



Slatted Root Crop Bucket

The Slatted Root Crop bucket is for use on the 520M and 525B-HL Loadalls. The other two are suitable for use on all three models.

Safety

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

Operation

Roll the bucket forward and back using the carriage tilt lever.

⚠ WARNING

Machine Stability

Do not exceed the machine stability limits shown on the Load Chart(s) in the cab.

The payloads for these buckets are based on the following maximum material densities:

50 lb/cu ft (800 kg/m³) for Light Material Bucket.

106 lb/cu ft (1700 kg/m³) for General Purpose and Slatted Root Crop Buckets.

Remember that the standard load chart capacities relate to a standard machine equipped with 48 in standard pallet forks.The use of any attachment REDUCES the load capacity of the machine.

CAUTION

Do not use the Light Material Bucket for dense or heavy materials, such as soil, crushed stone etc.

Preparing For Travel

Tilt the bucket fully back.

Installing and Removing

Follow the instructions on Pages **172-174** *(Installing)* and Pages **174-175** *(Removing).*

⚠ WARNING

Lifting/Handling

The bucket weights are given below. Take care when lifting and handling. Use suitable lifting tackle. Make sure the lifting tackle is in good condition. Make sure the lifting tackle complies with all pertinent regulations. Wear gloves and safety shoes.

Maintenance Daily

Clean with the rest of the machine.

Check generally for damage.

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SIDETILT CARRIAGE (Part No. 330/71403)

(continued)

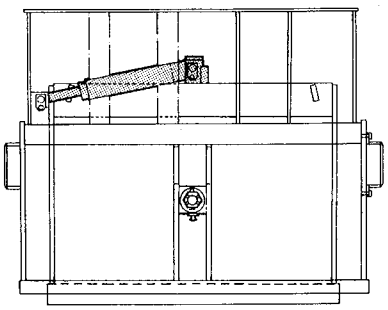
Maintenance Daily

Clean with the rest of the machine.

Check generally for damage. Make sure that the fork pivot pin retainer **A** is in place and secure. Check the hydraulic hoses for chafing and signs of leakage. On 330/71403, check that the split cotter **A** is in place.

Grease the pivot points.
3 Grease Points.

*Read the general information on greasing, Page **103.***



Every 50 Operating Hours

Grease the fork pivot pin **B** using **JCB MPL Grease.**

Specification

	330/71403
Maximum tilt angle	20° (10° each way from vertical) max
Maximum fork spacing	39 in (1003 mm)
Width	51 in (1295 mm)
Height	40 in (1016 mm)
Weight	500 lb (227 kg)
Safe Working Load	6300 lb (2864 kg)*
	* See Load Chart(s)
Used on:	**525B-HL, 530B-HL**

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