Dear JCB Customer

Even if you have operated this type of equipment before, it is very important that your new machines operations and functions are explained to you by a JCB Dealer Representative following delivery of your new machine.

Following the installation you will know how to gain maximum productivity and performance from your new product.

Please contact your local JCB dealer if the Installation Form has not yet been completed with you.

Your Local JCB Dealer is:

OPERATOR MANUAL

THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE

RTFL - 926, 930, 940, 950

ENGLISH - 9811/5700 - ISSUE 7 - OCTOBER 2013

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Safety Notices

Important Information

T1-042

The Operator Manual

⚠ WARNING

You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator Manual. You must understand and follow the instructions in the Operator Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

INT-1-4-2

Do not operate the machine without an Operator Manual, or if there is anything on the machine you do not understand.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

Safety Warnings



This safety alert system identifies important safety messages in this manual. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

In this publication 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 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

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Identifying Your Machine

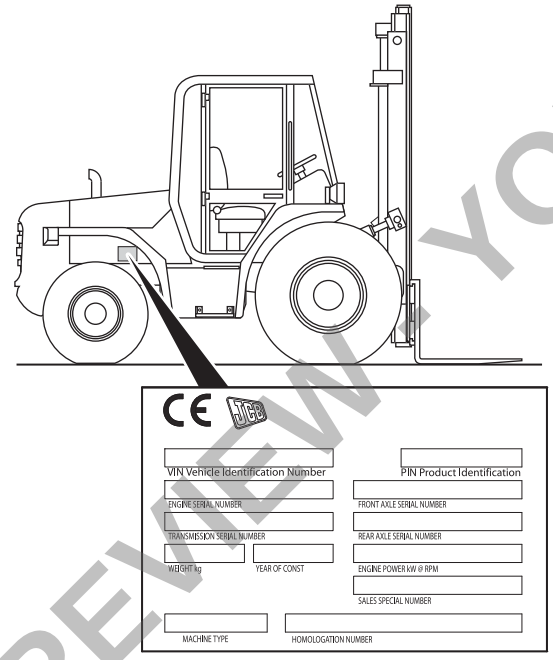
Machine Identification Plate

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.



823500-2

Fig 5.

Typical Product Identification Number (PIN) - Early Machines

JCB	930	36	C	01234567
1	2	3	4	5

1 World Manufacturer Identification (3 Digits)

2 Machine Model (3 Digits)

926, 930, 940 or 950

3 Mast Type (2 Digits)

36 = 3.6 metre mast
45 = 4.5 metre mast
55 = 5.5 metre mast
65 = 6.5 metre mast
NM = No Mast fitted

4 Check letter (1 Digit)

The Check Letter is used to verify the authenticity of the machine's PIN.

5 Machine Serial Number (8 Digits)

Each machine has a unique serial number.

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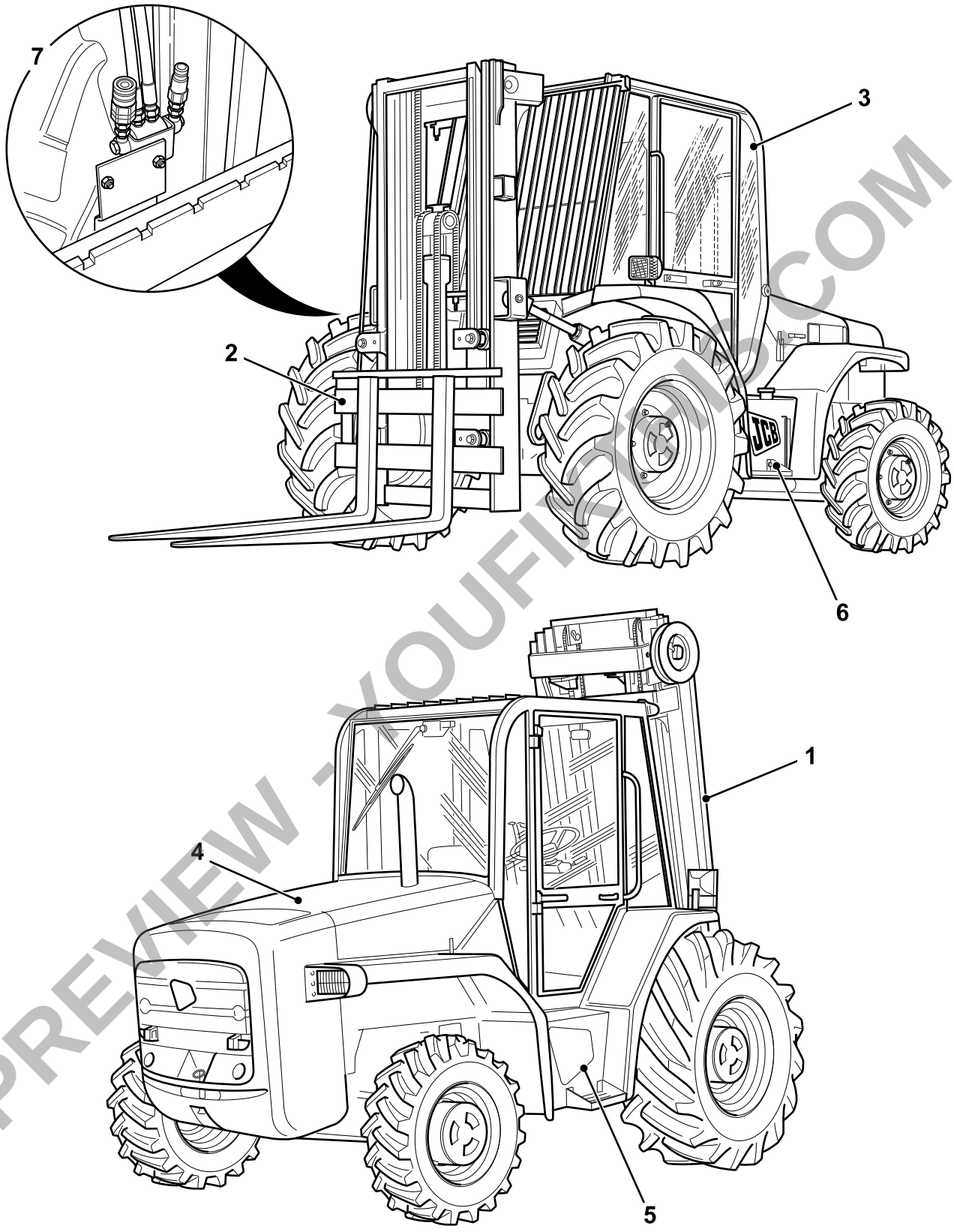


Fig 2.

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Windscreen Washer

Checking the Level

Fill the windscreen washer bottle **A** with a suitable liquid. The liquid should contain a de-icing fluid to prevent freezing. Do not use engine coolant antifreeze.

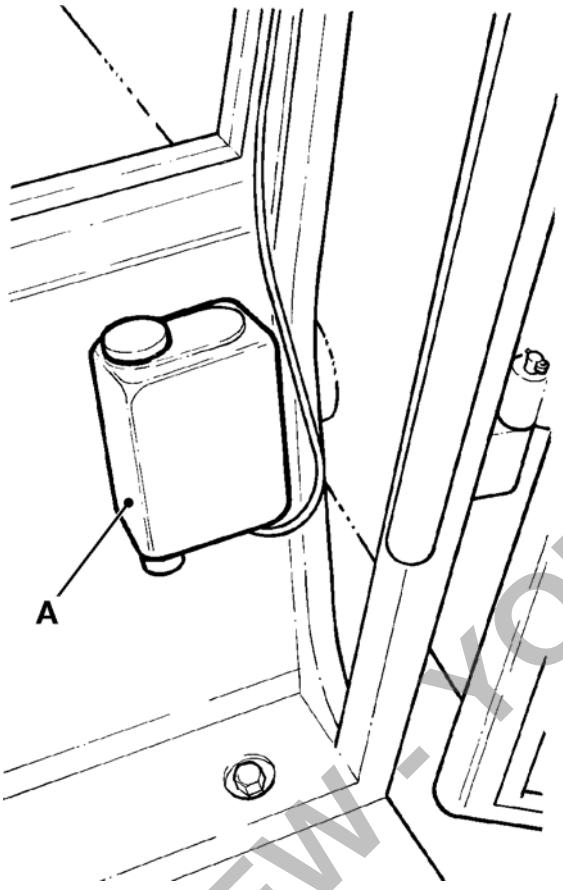


Fig 128.

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Pre-start Cold Checks, Service Points and Fluid Levels

	Operation	10	50	(1)100	500	1000	2000	6000
ENGINE								
Coolant Quality and Level	- Check	☐	☐	☐	☐	☐		
Cooling System	- Drain and Refill						☐	☐
Oil level	- Check	☐	☐					
Oil and Filter(2)(3)	- Change				☐	☐	☐	☐
Air Cleaner Dust Valve(4)	- Change				☐	☐	☐	☐
Air Cleaner Outer Element(4)	- Change				☐	☐	☐	☐
Air Cleaner Inner Element(4)	- Change						☐	☐
Pre-Cleaner (if fitted)	- Check			☐				
Water Separator and Engine Fuel Filter	- Drain		☐	☐	☐	☐	☐	☐
Water Separator Fuel Filter(5)	- Change				☐	☐	☐	☐
Engine Fuel Filter	- Change					☐	☐	☐
Front End Accessory Drive (FEAD) Belt Condition	- Check				☐	☐	☐	☐
Front End Accessory Drive (FEAD) Belt	- Change							☐
Engine Mounting Bolts for Tightness	- Check			☐	☐	☐	☐	☐
All Hoses - Condition	- Check			☐	☐	☐	☐	☐
Radiator(4)	- Clean				☐	☐	☐	☐
Breather Gauze	- Clean						☐	☐
Valve Clearances(6)	- Check and Adjust						☐	☐
Oil Filler and Dipstick Seals(6)	- Check and Adjust						☐	☐
Rocker Cover and Injector Seals(6)	- Change						☐	☐
Injectors(6)	- Change							☐
Injector(s) Leak Off Rail(6)	- Change							☐
High Pressure Fuel Lines(6)	- Inspect							☐
TRANSMISSION, AXLES AND STEERING								
Transmission Oil Level	- Check	☐	☐	☐	☐			
Transmission Oil(7)	- Change					☐	☐	☐
Transmission Filter	- Change			☐	☐	☐	☐	☐
Transmission Strainer	- Clean					☐	☐	☐
Front Axle Oil Level	- Check			☐	☐			
Front Axle Oil	- Change					☐	☐	☐
Rear Axle Differential Oil Level (4WD)	- Check			☐	☐			
Rear Axle Differential Oil (4WD)	- Change					☐	☐	☐
Rear Axle Hub Oil Level (4WD)	- Check			☐	☐			
Rear Axle Hub Oil (4WD)	- Change					☐	☐	☐

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Air Conditioning and Heater Controls

Heater Controls

Hot air is directed to the windscreen by a pipe in the front of the cab. It is directed to the cab through a shutter **A** on the heater unit. A heater control switch **B** controls a two-speed heater fan.

Air Control

Rotate vent **A** open to direct air into the cab. Rotate the vent **A** closed to direct all the air to the windscreen.

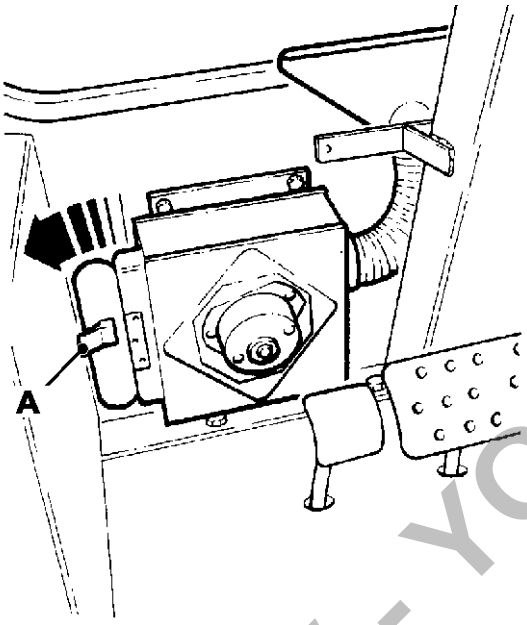


Fig 31.

Air Conditioning Controls

To provide cool air in warm climates and during hot seasons the air conditioning system delivers cool dehumidified air into the cab.

Air conditioning reduces moisture from the air and can be used to demist windows quickly in damp weather. Used in conjunction with the heater, it also makes the interior of the cab warm and dry.

Important: *Operate the air conditioning for at least 10 minutes per month.*

1 Start the engine. ⇨ ***Starting the Engine (*** 53).

Note: *Before starting the engine make sure the air conditioning is switched off (knob **A**, position **0**).*

2 Turn knob **A** clockwise to position **1** to turn the air conditioning on. Turn to position **2** to increase speed.

To obtain best results from the air conditioning system ensure that all doors and windows are closed.

3 Turn knob **B** counter-clockwise to raise the temperature. Turn the knob in the opposite direction to reduce the temperature.

4 Position vents **C** as required to direct air.

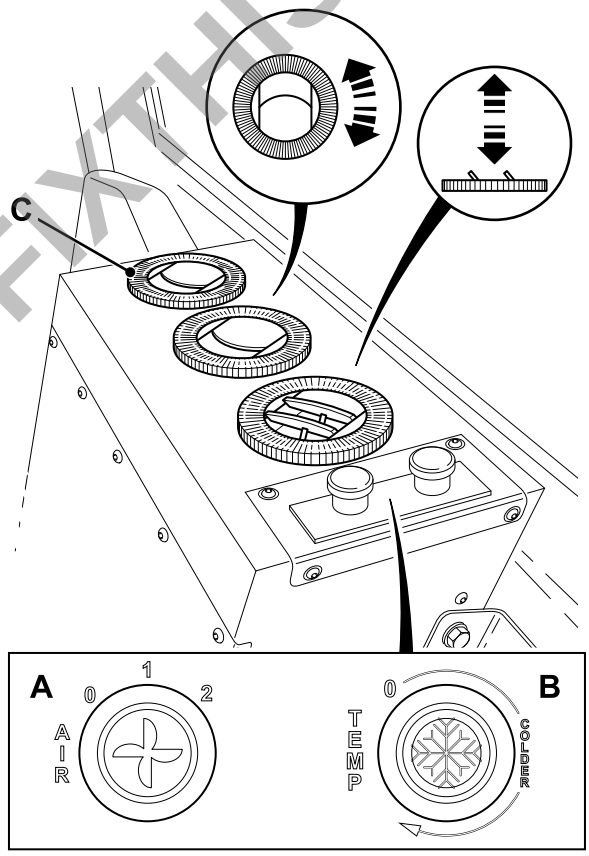


Fig 32.

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Auxiliary Controls

The machine can be fitted with a single or twin auxiliary circuit. These can be used to operate optional attachments when connected to the quick release couplings **J** mounted at the front of the machine. ⇨ *Optional Attachments (163)*.

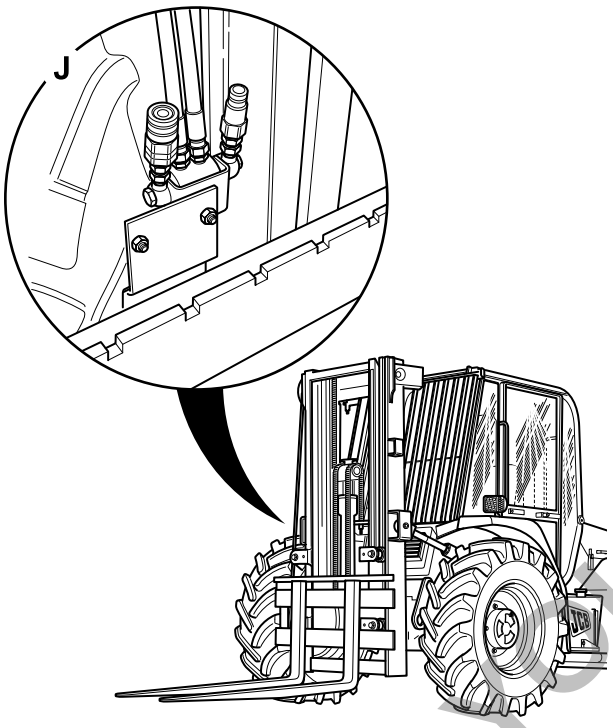


Fig 36. Single Auxiliary Installation

Single Auxiliary Option

To operate the auxiliary circuit:

- On machines fitted with a standard carriage, move lever **3** in direction **G** or **H** depending on the attachment fitted or the function required.
- On machines fitted with a Sideshift carriage, move lever **4** in direction **G** or **H** depending on the attachment fitted or the function required.

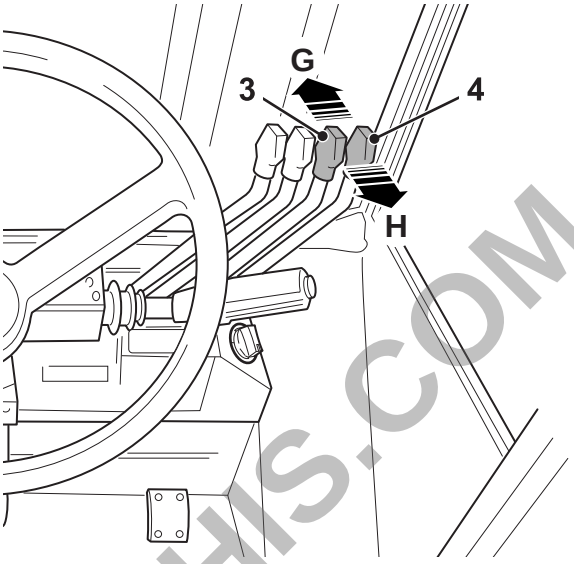


Fig 37.

Twin Auxiliary Option

To operate the auxiliary circuit, move lever **3** or **4** in direction **G** or **H** depending on the attachment fitted or the function required.

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Machine Security

Introduction

T1-019

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

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

JCB Plantguard

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.

Construction Equipment Security And Registration Scheme (CESAR)

T1-020

JCB are pleased to announce, the availability of CESAR a simple, effective method of machine identification and registration that operates throughout the United Kingdom and Ireland and across the whole spectrum of JCB products.

CESAR is a scheme to help reduce plant theft, and was developed by the Metropolitan Police and the Home Office Plant Theft Action Group.

The key to the scheme is its simplicity and will mean that every police officer in the country will know how to identify construction machinery and verify ownership. This will provide a major leap forward in both protecting machinery, and recovering it.

The Construction Equipment Association is managing the scheme, and Datatag are providing the security material and support. JCB is fully supportive of the CESAR initiative and will offer it as a factory fit option across the range.

The CESAR kit includes 2 Tamper proof triangular ID plates fitted on either side of the machine, a unique transponder, mini radio frequency identification tags (RFIDs) concealed throughout the machine, Datatag micro dots, and a unique DNA coded chemical painted on the machines major components. Plus a registration certificate logged onto the CESAR or DVLA databases, and a change of keeper form.

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Changing the Axle Oil

1 Make the machine safe with the mast lowered. Refer to **Prepare the Machine for Maintenance**.

2 Place a container of suitable size beneath plug **B** to catch the oil. Remove the drain plug **B** and its seal. Allow oil to drain out. The drain plug is magnetic. Wipe it clean. (Metallic particles should be carefully removed). Fit drain plug **B** and its washer.

⚠ CAUTION

Oil will gush from the hole when the drain plug is removed. Keep to one side when you remove the plug.

2-3-4-2

3 Fill with recommended oil through fill/level hole **A**. Clean and refit plug **A** and its seal. Tighten to 79Nm (60lbf ft).

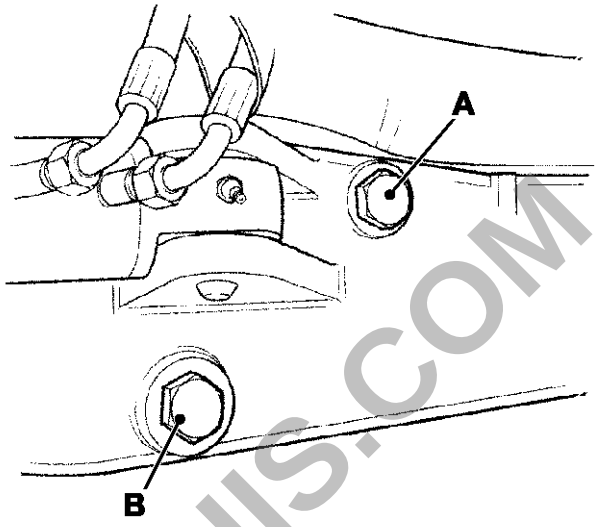


Fig 120.

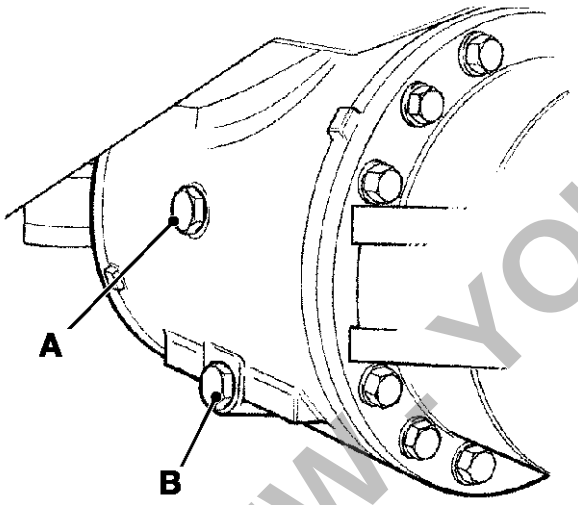


Fig 119.

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Unloading Above Ground Level

Unload above ground level only after you fully understand how to handle palleted loads. The basic procedure is the same, but remember the following points:

⇨ *Stacking Loads (72)*.

1 Approach the unload area on centre, with the rear wheels straight. Stop the machine, just in front of the stack (or platform).

2 Raise the load until it is a few inches higher than the stack or platform.

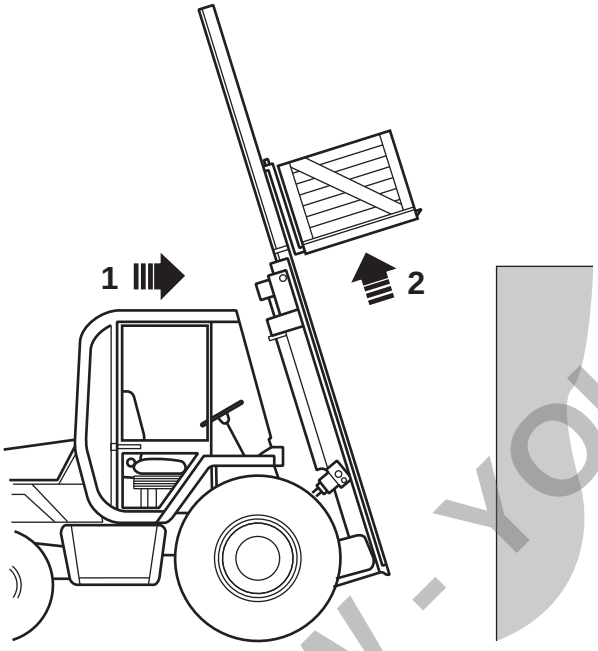


Fig 51.

3 Drive forward in first gear until the load is directly above its required position. Stop the machine. Engage the park brake. Put the transmission in neutral.

4 Set the forks level with the unload area and lower the load into position.

5 Lower the forks a little more to clear the pallet. Tilting the mast forward a little may help at this stage.

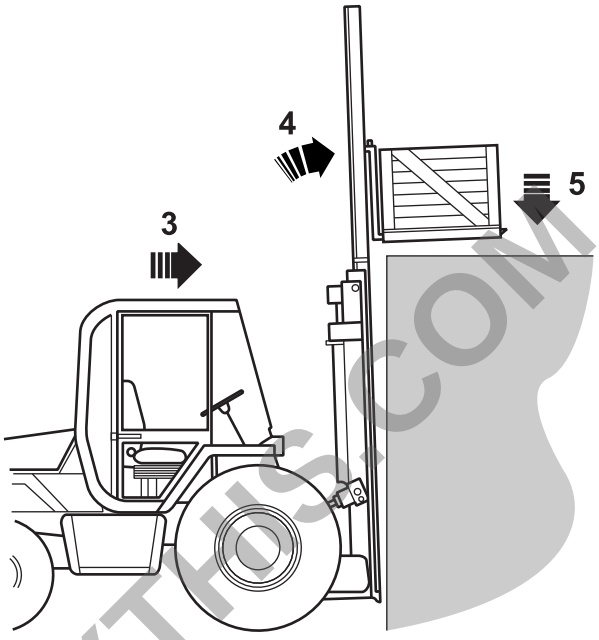


Fig 52.

6 Check that it is clear behind you, then slowly reverse the machine away in first gear.

7 When the forks are clear of the load, stop the machine. Engage the park brake and put the transmission in neutral.

8 Lower the forks. Put the mast and carriage into the site travel position.

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