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

LOADALL - 524-50, 527-55

ENGLISH - 9811/1278 - ISSUE 2 - JANUARY 2011

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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, carefuly 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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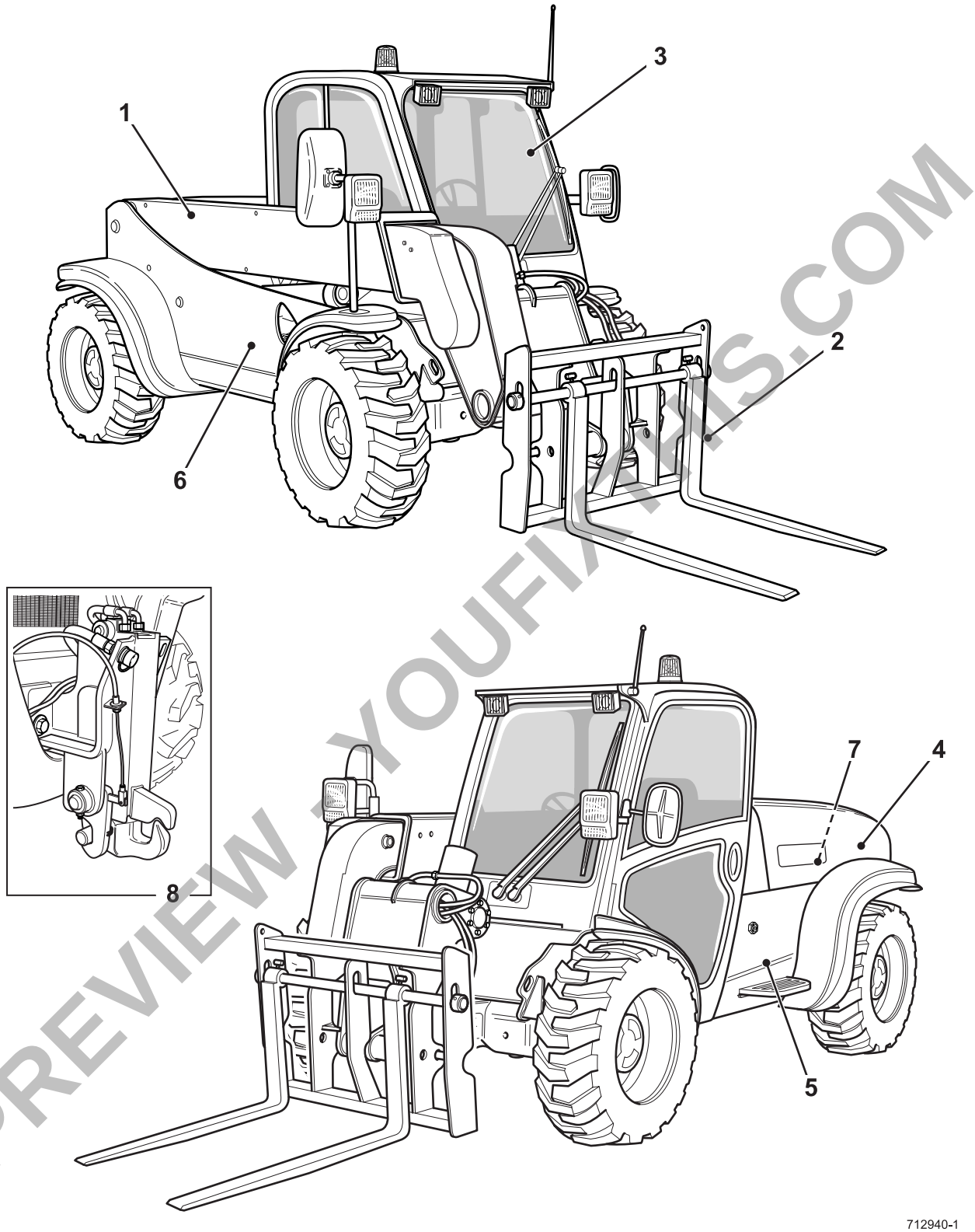


Fig 2.

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Diagnostic Fault Codes

When the system detects a fault, the audible alarm will sound and various combinations of lights on the display will indicate a fault code for approximately 10 seconds.

The audible alarm and the fault code display cancel after 10 seconds and ALL LEDs on the display will flash continuously as long as the fault remains. Press and release display button **E** to show the fault code for a further 10 seconds.

When the fault clears, the display will return to normal.

⚠ WARNING

If the system is faulty, contact your JCB distributor. Do not try to repair it yourself.

0206

If any of these fault codes are displayed, switch the starter key off and on again. Contact your JCB distributor if the fault does not clear.



Error Code 1 - Transducer signal fault

Transducer disconnected or wiring damaged.



Error Code 2 - Calibration out of range

System is incorrectly calibrated.



Error Code 3 - Calibration required

System not calibrated.



Error Code 4 - Display unit faulty

The display box has detected an internal error.



Error Code 5 - Low battery voltage

Battery voltage is below 9 Volts.



Error Code 6 - Fault in LCS manifold

Note: *This code will be accompanied by either or both of the mode symbols lighting, either continuously or flashing. Note pattern of mode symbol illumination.*

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Check the Electrical Circuits

T3-099

Inspect the electrical circuits regularly for:

- Damaged connectors
- Loose connections
- Chafing on wiring harnesses
- Corrosion
- Missing insulation
- Incorrect routing of harness

Do not use the machine if one or more of these faults are found. You must make sure that the electrical circuit is repaired immediately.

Checking the ROPS/FOPS Structure

⚠ WARNING

You could be killed or seriously injured if you operate a machine with a damaged or missing ROPS/FOPS. If the Roll Over Protection Structure (ROPS)/Falling Objects Protection Structure (FOPS) has been in an accident, do not use the machine until the structure has been renewed. Modifications and repairs that are not approved by the manufacturer may be dangerous and will invalidate the ROPS/FOPS certification.

INT-2-1-9_6

For assistance, contact your JCB distributor. Failure to take these precautions could result in death or injury to the operator.

1 Check the structure for damage.

2 Make sure that all the ROPS/FOPS mounting bolts **A** are in place and are undamaged.

3 Make sure that the ROPS/FOPS mounting bolts **A** are tightened to the correct torque setting.

Table 5. Torque Settings

Item	Nm	lbf ft
A	85	63

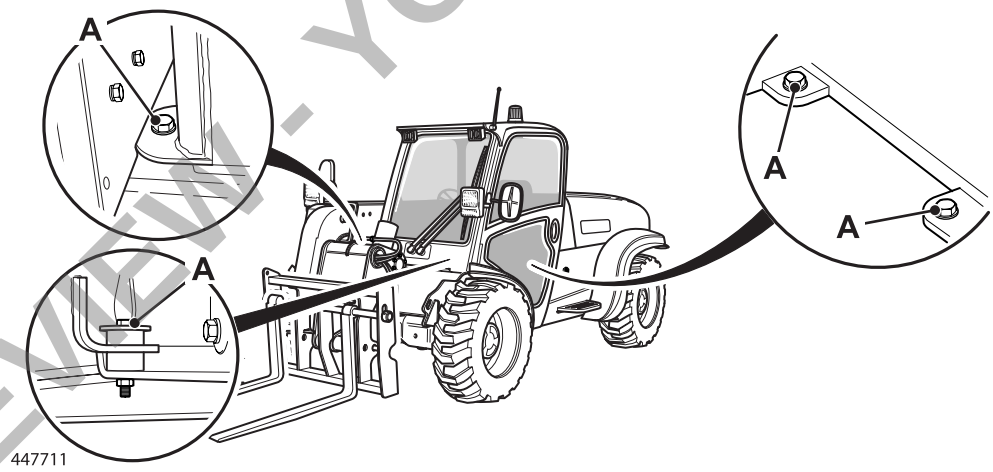


Fig 104.

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How to Make the Machine Safe (Boom Lowered)

Important: *You can complete most of the maintenance procedures with the boom lowered. Unless a maintenance procedure instructs you differently, you must lower the boom.*

1 Park the machine on level, solid ground.

If necessary, refer to ***Stopping and Parking the Machine*** in the Operator Manual.

2 Retract then lower the boom.

3 Put the attachment flat on the ground.

4 Stop the engine and remove the starter key.

5 Disconnect the battery to prevent accidental operation of the engine.

6 If necessary, put chocks against the two sides of the wheels before you get below the machine.

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Fluids, Lubricants and Capacities

Table 2.

Item	Capacity Litres (UK Gal)	Fluid/Lubricant	JCB Part Number	Container Size(1)
Fuel Tank	75 (16.5)	Diesel Oil (Refer to ***Fuels***)	-	-
Engine (Oil)(2)		JCB Engine Oil EP 15W40	4001/1805	20 litres
- MIN	12.5 (2.75)	-10°C to +50°C (14°F to 122°F)		
- MAX	15 (3.3)	JCB Cold Climate Engine Oil EP 5W40	4001/2705	20 litres
		-20°C to +50°C (-4°F to 122°F)		
Engine (Coolant)(3)	14 (3.0)	JCB Antifreeze HP/Coolant + Water (Refer to ***Coolant Mixtures***)	4006/1120	20 litres
Axles				
- Housing (x 2)	5.0 (1.1)	JCB Gear Oil HP90	4000/0305	20 litres
- Hubs (x4)	0.5 (0.1)			
Hydraulic Tank(4)	70 (15.4)	JCB High Performance 10W/30	4001/1705	20 litres
Grease Points	-	JCB Special HP Grease	4003/2017	400g
		JCB Special MPL-EP Grease(5)	4003/1501	400g
Wear Pad Runways	-	Waxoyl	4004/0502	5 litres
Braking System	2.0 (0.4)	JCB Hydraulic Fluid HP15(6)	4002/0503	5 litres

(1) For information about the different container sizes that are available (and their part numbers), contact your JCB Dealer.
(2) Do not use ordinary engine oil
(3) It is recommended that the cooling system be filled at a maximum rate of 6 litres per minute. If the fill rate is any higher than this there is a possibility of air becoming trapped in the system.
(4) This is a tank capacity. The total hydraulic system capacity depends on the equipment being used. Fill and check with all rams closed. Watch level sight glass when filling.
(5) JCB Special HP Grease is the recommended specification grease, if using JCB Special MPL-EP then the greasing must be carried out more frequently.
(6) !CAUTION: DO NOT USE ORDINARY BRAKE FLUID

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Pre-start Cold Checks, Service Points and Fluid Levels

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

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Operation

Introduction

T2-006_2

The aim of this part of the manual is to guide the operator step-by-step through the task of learning how to operate the machine efficiently and safely. Read the ***Operation*** section through from beginning to end.

Before you start the machine, you must know how the machine operates. Use your manual to identify each control lever, switch, gauge, button and pedal. Do not guess. If there is anything you do not understand, ask your JCB distributor.

The operator must always be aware of events happening in or around the machine. Safety must always be the most important factor when you operate the machine.

When you understand the operating controls, gauges and switches, practice using them. Drive the machine in an open space, clear of people. Get to know the 'feel' of the machine and its driving controls.

Finally, do not rush the job of learning, make sure you fully understand everything in the ***Operation*** section. Take your time and work efficiently and safely.

Remember

BE CAREFUL
BE ALERT
BE SAFE

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Cab Layout

Note: *The cab layout illustration is of a typical machine, for variations see the relevant page in this manual.*

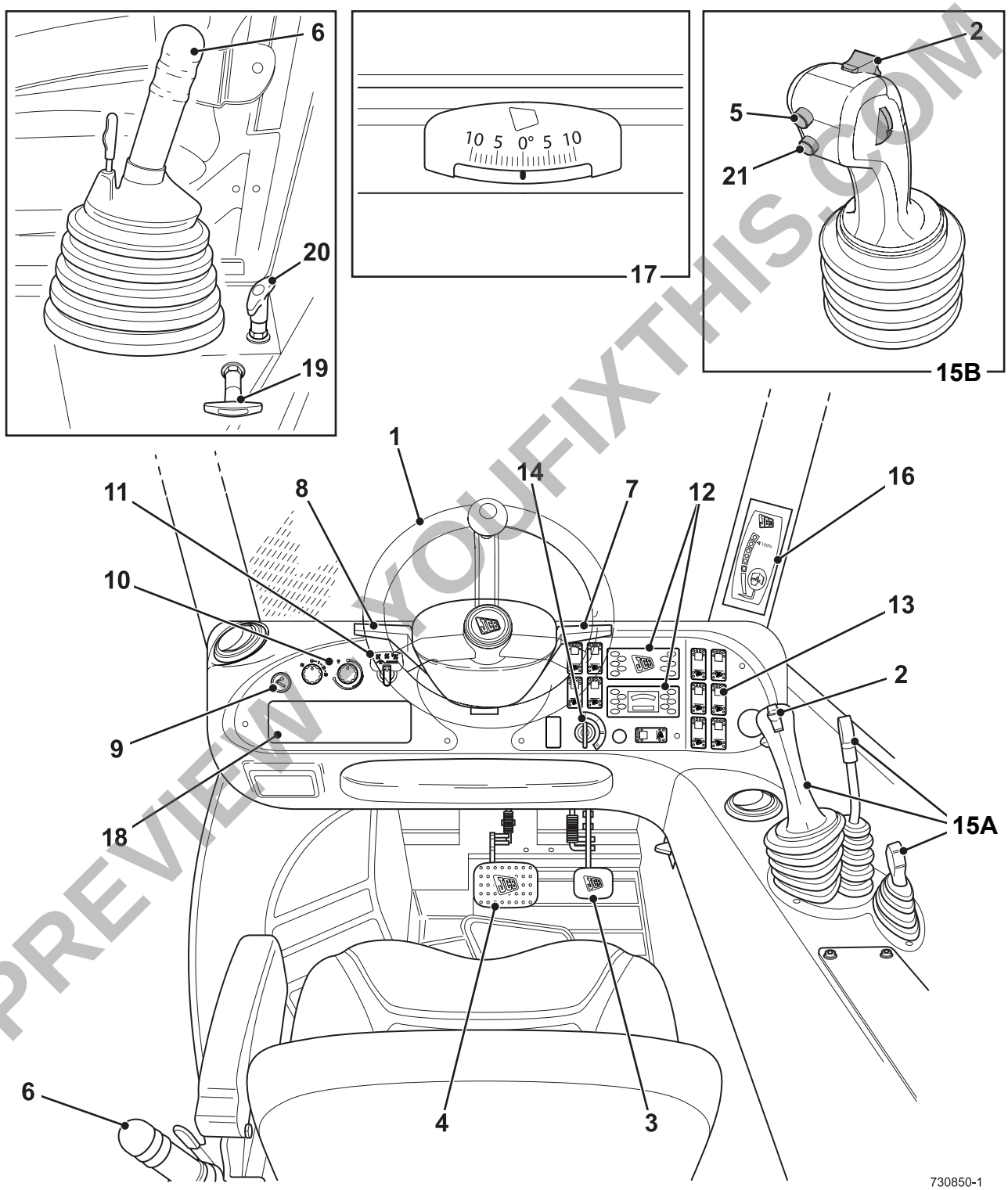


Fig 19.

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Optional Attachments

Introduction

T4-002_3

⚠ WARNING

Use only the JCB approved attachments that are specified for your machine. Operating with non-specified attachments can overload the machine, causing possible damage and machine instability which could result in injury to yourself or others.

The use of non-approved attachments could invalidate your warranty.

2-4-5-2_1

⚠ CAUTION

If you have an attachment which is not covered in the Operator Manual do not install it, use it or remove it until you have obtained, read and understood the pertinent information. Install attachments only on the machines for which they were designed.

5-5-1-1_2

A wide range of optional attachments is available to increase the versatility of your machine. Only JCB approved attachments are recommended for use with your machine. Consult your JCB Distributor for the full list of approved attachments available.

This part of the manual includes general information on attachment operation and instructions for installation and removal of attachments.

Some attachments are supplied complete with instructions on safety, installing and removing, operation and maintenance. Read and fully understand the information before fitting, using and servicing the attachment. If there is anything you do not understand, ask your JCB Distributor.

Before using any attachment, read again ***Working With The Machine*** in the Operation section and consider how the attachment is going to affect operational safety. With the attachment fitted, there may be changes in the machine's centre of gravity or overall dimensions. This could have an effect on, for example, machine stability, the gradients on which it is safe to operate or the safe distance from power lines.

Practice using attachments off the job before working with them for the first time.

JCB attachments are designed and manufactured specifically to suit the machine's hydraulic system, mounting arrangements and safe load requirements. Attachments which are not designed for use with this machine may cause damage and create safety hazards for which JCB cannot be held responsible. In addition the machine's warranty and any other legislative compliance may be affected by the use of non JCB approved attachments.

If your machine needs the hydraulic system adapting to facilitate the use of auxiliary attachments, you must consult your distributor. Only suitably qualified personnel must re-route hydraulic hoses.

All optional attachments will have limits on their operation. i.e. lifting capacity, speeds, hydraulic flow rates, etc. Always check in the literature supplied with the attachment or in the Specification section of this manual. Some specification limits may also be displayed on the attachments Data/Rating Plate.

⚠ CAUTION

Some attachments may contact parts of the machine when in the fully folded position. Take extra care to avoid damage to the machine.

3-4-1-4

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