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

8018 CTS

ENGLISH - 9821/2850 - ISSUE 1 - MAY 2012

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A5-3-MiniMidi - Printed In England

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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.

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Cab Layout

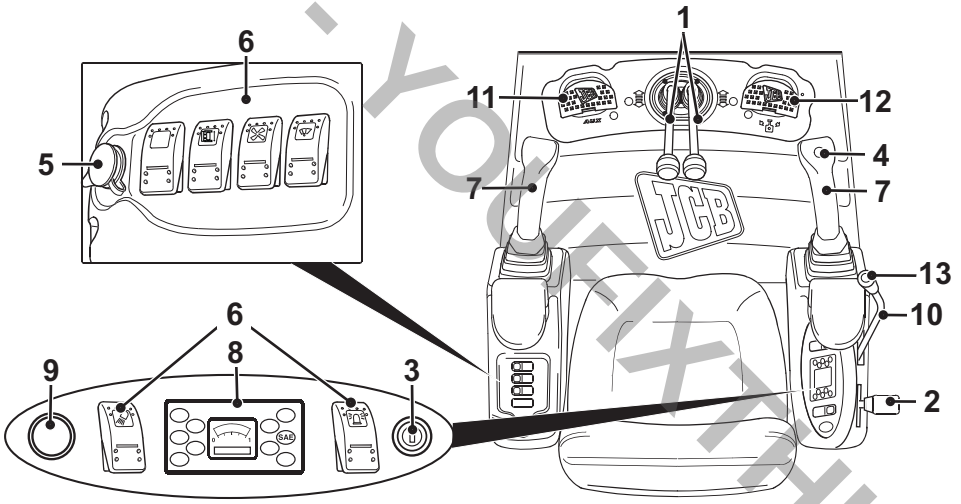


Fig 16.

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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.

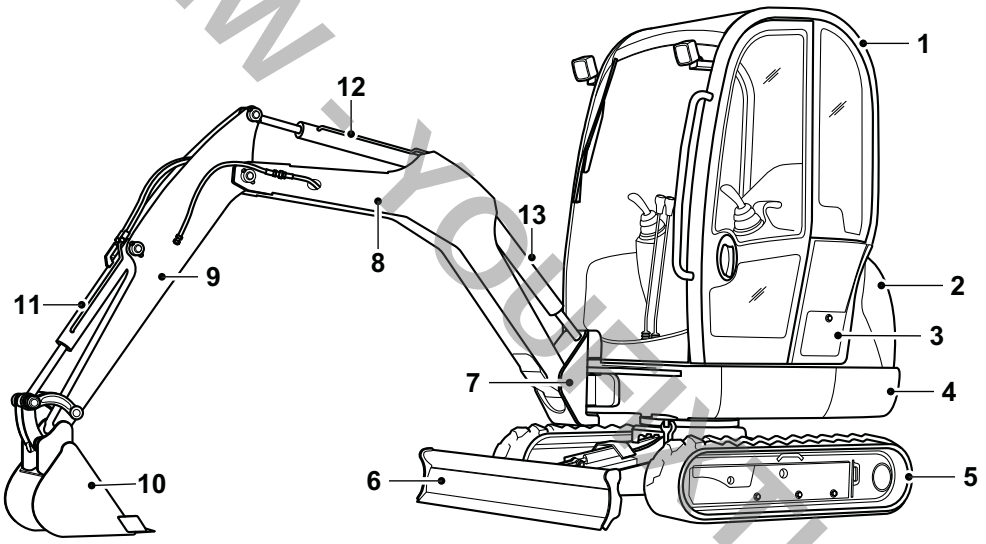
When you understand the operating controls, gauges and switches, practice using them. Drive the machine in an open space, clear of people. Get to know the 'feel' of the machine and its driving controls.

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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Fig 2.

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Parts Numbers and Descriptions

ISO-04A

Part Number: 817/70004

Description: Burns to fingers and hands. Stay a safe distance away.



817-70004-4

ISO-06D

Part Number: 817/70005

Description: Hot fluid under pressure. Refer to ***Cooling System (Routine Maintenance Section)***.



817-70005-3

ISO-07D

Part Number: 817/70112

Description: Crush hazard. Keep a safe distance from the moving parts.



817-70112-2

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Fluids, Lubricants and Capacities

JCB recommend that you use the JCB lubricants shown as they have been verified by JCB for use on JCB machines. However, you could use other lubricants that are equivalent to the JCB standards and quality or offer the same machine component protection.

Table 1.

Item	Capacity Litres (Gal)	Fluid / Lubricant	JCB Part No	Container Size (1)
Fuel Tank	23.5 (5.2)	Diesel	-	-
Engine (Oil) (2)	4.0 (0.9)	**JCB Engine Oil HP 10W/30** (above -15°C, 5°F)	4001/1705	20 Litres
		JCB Cold Climate Engine Oil EP 5W40 (-20°C to +50°C, -4°F to 122°F)	4001/2705	20 Litres
Engine Coolant		**JCB Antifreeze HP/Coolant/Water** ⇨ *Coolant Mixtures (184)*.	4006/1120	20 Litres
Canopy	4.5 (1.0)			
Cab	5.0 (1.1)			
Track Gearbox (each)	0.3 (0.07)	**JCB Engine Oil HP SAE 30** (Not Multigrade)	4001/0305	20 Litres

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Pre Start Cold Checks, Service Points and Fluid Levels

	Operation	10	50	500	1000	2000
ENGINE						
Oil level	- Check	☐	☐	☐	☐	☐
Oil and Filter	- Change			☐	☐	☐
Air Cleaner Element (Dusty Conditions only)	- Change			☐	☐	☐
Air Cleaner Outer Element	- Change				☐	☐
Air Cleaner Hose Security	- Check and Adjust		☐	☐	☐	☐
Air Filter Dust Valve	- Check and Clean			☐	☐	☐
Fuel Injectors(1)	- Clean and Test					☐
Coolant Quality/Level	- Check	☐	☐	☐	☐	☐
Coolant	- Change					☐
Fuel Lift Pump	- Clean			☐	☐	☐
Fuel Sedimenter	- Drain and Clean	☐	☐	☐	☐	☐

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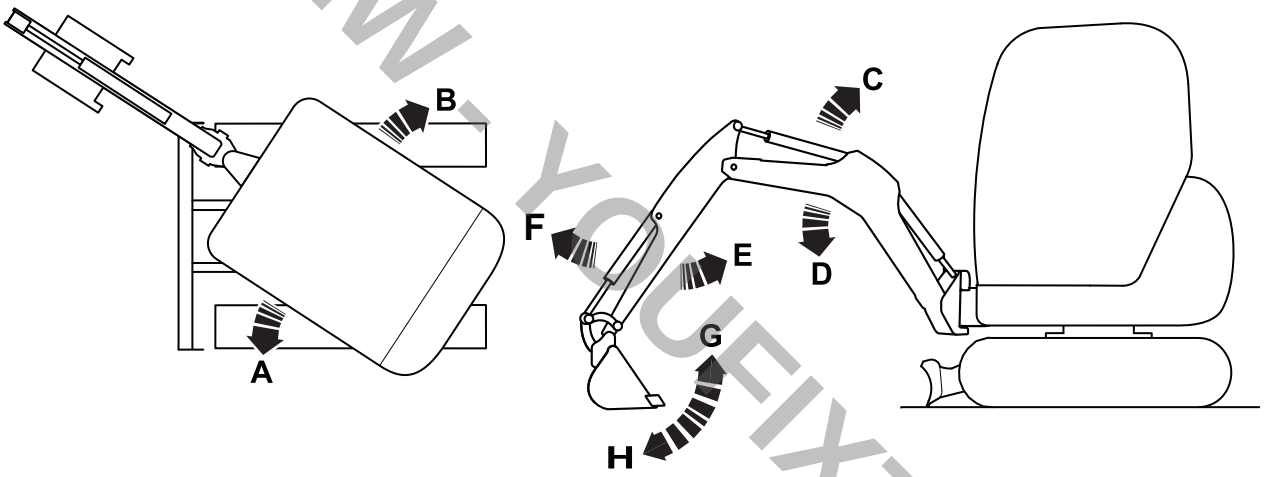


Fig 31.

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Installing a Bucket on a Quickhitch

See ***Bucket Selection.***

1 Position the Bucket

Set the bucket on firm level ground. Use safe and correct lifting equipment to move the bucket.

2 Position the machine

a Position the machine so that the Quickhitch and bucket are correctly aligned for connection as shown.

b Use the excavator controls to engage jaw **A** of the Quickhitch with the pivot pin **B** of the bucket.

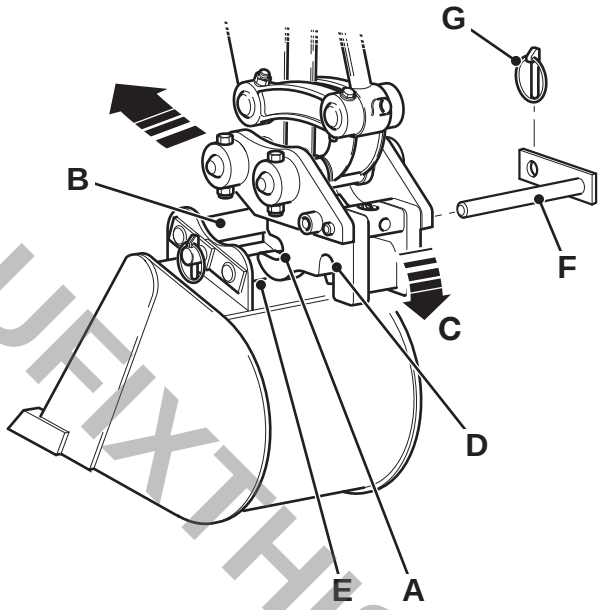


Fig 98.

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Fuel System

Introduction

⚠ WARNING

Fuel

Fuel is flammable; keep naked flames away from the fuel system. Stop the engine immediately if a fuel leak is suspected. Do not smoke while refuelling or working on the fuel system. Do not refuel with the engine running. Completely wipe off any spilt fuel which could cause a fire. There could be a fire and injury if you do not follow these precautions.

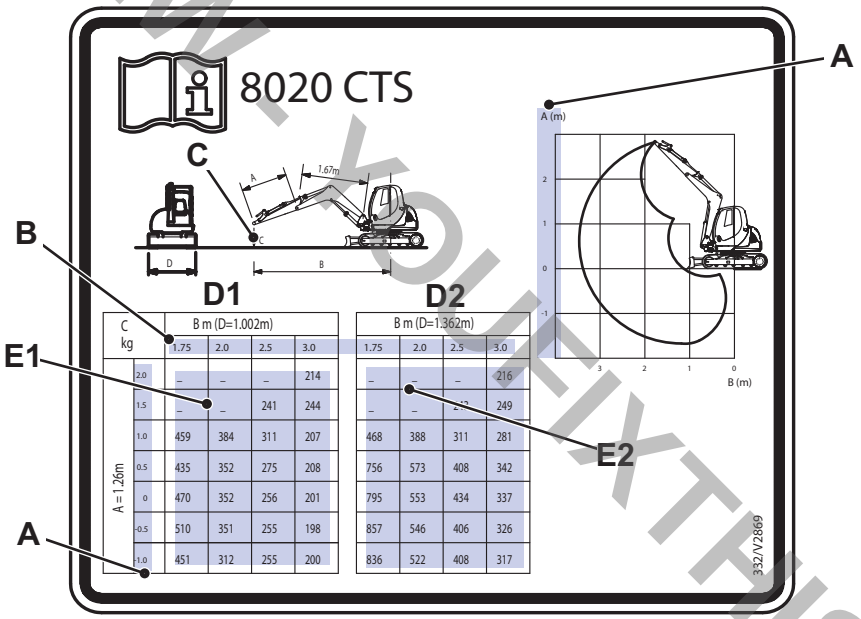
INT-3-2-2_3

⚠ WARNING

Fine jets of fluid at high pressure can penetrate the skin. Keep face and hands well clear of pressurised fluid and wear protective glasses. If fluid penetrates your skin, get medical help immediately.

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T052950

Fig 52. Example only

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Routine Maintenance

Service Requirements

Introduction

T3-095

Your machine has been designed and built to give maximum performance, economy and ease of use under a wide variety of operating conditions. Prior to delivery, your machine was inspected both at the Factory and by your Distributor to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble free operation it is important that the routine services, as specified in this Manual, are carried out by an approved JCB Distributor at the recommended intervals.

This section of the Manual gives full details of the service requirements necessary to maintain your JCB machine at peak efficiency.

A Service Manual for your machine is available from your JCB Distributor. The Service Manual contains information on how to repair, dismantle and assemble your machine correctly.

It can be seen from the Service Schedules on the following pages that many essential service checks should only be carried out by a JCB trained specialist. Only JCB Distributor Service Engineers have been trained by JCB to carry out such specialist tasks, and only JCB Distributor Service Engineers are equipped with the necessary special tools and test equipment to perform such tasks, thoroughly, safely, accurately and efficiently.

JCB regularly updates its Distributors advising them of any product developments, changes in specifications and

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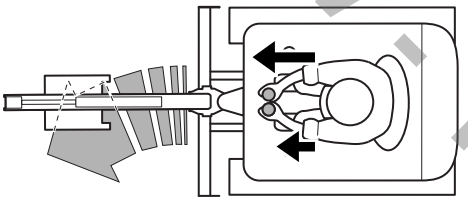
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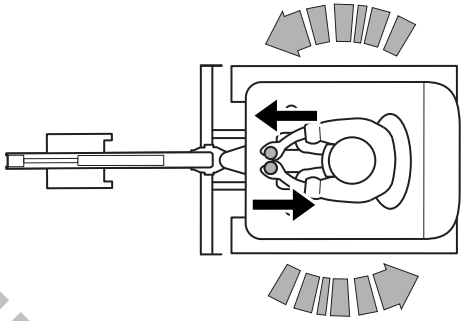
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731911-7

Fig 19. Turning the Machine

To turn the machine while you travel, move the lever back towards the central position on the side towards which you want to go e.g. move the left lever back to turn left. This causes one of the tracks to move slower than the other. The faster moving track will push the machine around. Release the lever to stop.



731911-8

Fig 20. Spinning the machine

To spin the machine around through 360°, without moving it, operate one lever, in a forward position and the other in a reverse position. This will cause the tracks to drive in opposite directions and hence push the machine around.

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Transporting the Machine

P11-2003_5

Preparing for Road Travel

⚠ WARNING

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

Before loading the machine on to its trailer remove all loose dirt that may otherwise come off and obstruct the highway and damage other vehicles.

Note: *Before transporting the machine make sure you will be obeying the local rules and laws regarding machine transportation of all the areas that the machine will be carried through.*

Make sure that the transporting vehicle is suitable. See ***Maintenance*** Section for the dimensions and weight of your machine. There is a travel height label fitted to the cab.

Try to make sure that the truck driver knows the clearance height before he drives away. See ***Specification*** Section for machine height figures.

Note: *To calculate the clearance height **X**, add the overall height of the machine and the truck/trailer height together.* ⇨ ***Fig 61. (🗋 152)***.

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Fan Belt

Adjusting the Fan Belt

1 Get access to the engine. Refer to ***Access Panels, Engine Cover***.

2 Check that there is 5mm (0.2in) slack midway between the crankshaft pulley and the alternator pulley (at **A**).

3 If necessary loosen the alternator mounting bolts **B** and **C**.

Important: *Excessive fan belt slack may result in damage to the engine timing cover.*

4 Position the alternator so that there is 5mm (0.2in) slack at point **A**.

5 Tighten the alternator mounting bolts in the order **B** and **C**.

Note: *The illustration shows the radiator removed for clarity.*

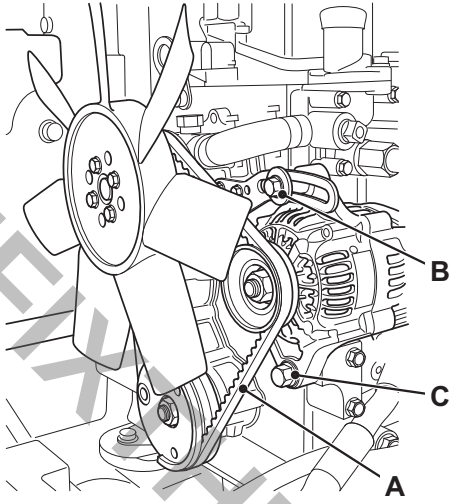


Fig 78.

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