Contents **Page No.**

Safety Notices

Important Information xiii
The Operator Manual xiii
Safety Warnings xiv

Introduction

Machine Model and Serial Number 1
Using this Manual 1
Units of Measurement 2
Left Side, Right Side 2
Using the Machine 3
Cross References 3
Machine Description 4
The JCB Micro Excavator 4
Intended Use 4
Component Locations 5

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Safety Notices

Important Information

T1-015

The Operator Manual

⚠ WARNING

Study the Operator Manual before starting the machine. You must understand and follow the instructions in the Operator Manual. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB dealer or employer. Do not guess, you or others could be killed or seriously injured.

INT-1-1-1_2

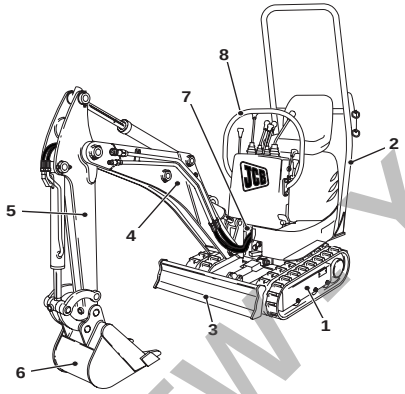
Do not operate the machine without an Operator Manual.

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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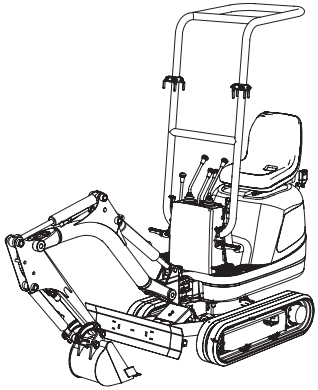
Component Locations

1	Undercarriage	**3**	Dozer	**5**	Dipper	**7**	Kingpost
2	Main frame	**4**	Boom	**6**	Bucket	**8**	Hand rail



T018460-2

Fig 2. Micro and Micro Plus



T018460-3

Fig 3. Micro 8008

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Routine Maintenance

Service Requirements

Introduction

T3-002

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.

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 procedures. Therefore only a JCB Distributor is fully able to maintain and service your machine.

A Service Record Sheet or Book is provided which will enable you to plan your service requirements and keep a service history record. It should be dated, signed and

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Fluids, Lubricants and Capacities

Table 2.

Item	Capacity Litres (Gal)	Fluid / Lubricant	International Specification
Fuel Tank	14.6 (3.2)	Diesel Oil	⇨ *Fuels (📄 158)*
Engine (Oil)	4.9 (1.07)	JCB 15W/40 Multigrade above -10°C (above 14°F)	MIL-L-46152B, API CD/SE MIL-L-2104D
		5W/20 -10°C to -25°C (14°F to -13°F)	API CC/SE or API CD/SE
Engine Coolant	4.5 (0.99)	JCB Universal Antifreeze/Water ⇨ *Coolant Mixtures (📄 157)*	ASTM D3306-74
Track Gearbox (each)	0.3 (0.07)	JCB SAE 30 Engine Oil (Not Multigrade)	API CD/SF, MIL-L-46152, MIL-L-2104D
Track Idler Wheels	Sealed		
Track Rollers (bottom)	Sealed		
Hydraulic System	21 (4.62)	See below	

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How to Use the Service Schedules

T3-012_3

In the example shown, **A** shows all service requirements to be carried out every 10 hours and **B** shows the requirements to be carried out every 500 hours.

Important: *Services should be carried out at either the hourly interval or calendar interval, whichever occurs first. Refer to* ***Calendar Equivalents****.*

Pre-start Cold Checks, Service Points and Fluid Levels

	Operation	A: 10	50	100[1]	B: 500	1000	2000	8000
ENGINE								
Coolant Quality and Level	- Check	☐	☐	☐	☐	☐		
Cooling System	- Drain and Refill						☐	☐
Oil level	- Check	☐	☐					
Oil and Filter[2][3][4]	- Change				☐	☐	☐	☐
Air Cleaner Dust Valve[5]	- Change				☐	☐	☐	☐
Air Cleaner Outer Element[3]	- Change					☐	☐	☐
Air Cleaner Inner Element	- Change						☐	☐
Pre-Cleaner (if fitted)	- Check			☐				
Water Seperator	- Check for contamination and Drain		☐	☐	☐	☐	☐	☐
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[5]	- Clean				☐	☐	☐	☐
Crankcase Ventilation Filter	- Change					☐	☐	☐

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Specifications

Lifting Regulations and Safe Working Loads

Information

Lifting (Object Handling) Regulations

T2-045

The owner and/or operator must ensure that he fully understands the laws and regulations concerning the use of the JCB Excavator as an earthmover and for lifting. Consult your JCB Distributor for further information.

Note: *In certain countries Safety Regulations in force call for the application of specific safety factors. Consult your JCB distributor for information.*

Safe Working Loads

P11-5001_3

⚠ WARNING

The safe working load shown on lifting accessories (for example chains, etc.) is not the safe working load of the machine.

M0002

The maximum load which may be lifted depends on the equipment fitted to the machine and the laws and regulations in force at the time and in the country in which the machine is being used.

If your machine is equipped to be operated under 'Exemption Certificate' rules, your Exemption Certificate will specify the Safe Working Loads.

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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

Component Key

1 Left Track Control Lever

2 Right Track Control Lever

3 Hand Throttle Lever

4 Starter Switch

5 Horn Switch

6 Working Light Switch (if installed)

7 Warning Lights

8 Fuel Low Level Warning Light

9 Hour-meter

10 Extending/Retracting Undercarriage Lever

11 Dozer Raise/Lower Lever

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Attachments

Introduction

T4-002

⚠ 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

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.

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, "CE" and any other legislative compliance may be affected by the use of non JCB approved attachments.

2-4-1-13_2

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Transporting the Machine

Preparing for Road Travel

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: *The transport position height does not include the truck/trailer height, add the two figures together for the clearance height.*

⚠ WARNING

Low speed must always be selected when unloading the machine from a vehicle or tracking down steep slopes. The machine will take longer to stop when the levers are released if high speed is selected.

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Contents **Page No.**

Safety Check List 6
Safety - Yours and Others 6
General Safety 7
Operating Safety 10
Maintenance Safety 20
Safety Decals 31
Introduction 31
Safety Decal Recognition 32
Identifying your Machine 34
Machine Identification Plate 34
Component Identification Plates 36
Machine Security 39
Introduction 39
JCB Plantguard 39
Construction Equipment Security And Registration Scheme (CESAR) . 39

Operation
Introduction 41

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