OPERATOR'S MANUAL



65 R-1

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THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE

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Safety

Safety - Yours and Others

All machinery can be hazardous. When a product is correctly operated and maintained, it is a safe product to work with. When it is carelessly operated or poorly maintained it can become a danger to you (the operator) and others.

In this manual and on the product you will find warning messages, read and understand them. They inform you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your employer or JCB dealer to explain them.

Safety is not just a matter of responding to the warnings. All the time you are working on or with the product you must be thinking of what hazards there might be and how to avoid them.

Do not work with the product until you are sure that you can control it.

Do not start any work until you are sure that you and those around you will be safe.

If you are not sure of anything, about the product or the work, ask someone who knows. Do not assume anything.

Remember:

- Be careful
- Be alert
- Be safe.

Safety Warnings

In this manual and on the product, there are safety notices. Each notice starts with a signal word. The signal word meanings are given below.

The signal word 'DANGER' indicates a hazardous situation which, if not avoided, will result in death or serious injury.

The signal word 'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

The signal word 'CAUTION' indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

The signal word 'Notice' indicates a hazardous situation which, if not avoided, could result in product damage.

The safety alert system (shown) also helps to identify important safety messages in this manual and on the product. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

Figure 2. The safety alert system



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Introduction
About this Manual

Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

Model	From:	To:
65 R-1	01913904	01914904

Using the Manual

This operator's manual is arranged to give you a good understanding of the product and its safe operation. It also contains maintenance and technical data.

Read this manual from the front to the back before you use the product for the first time, even if you have used machines of a similar/same type before as the technical specification, systems and controls of the machine may have changed. Particular attention must be given to all the safety aspects of operating and maintaining the product.

If there is anything you are not sure about, ask your JCB dealer or employer. Do not guess, you or others could be killed or seriously injured.

The general and specific warnings in this section are repeated throughout the manual. Read all the safety statements regularly, so you do not forget them. Remember that the best operators are the safest operators.

The illustrations in this manual are for guidance only. Where the machines are different, the text and or the illustration will specify.

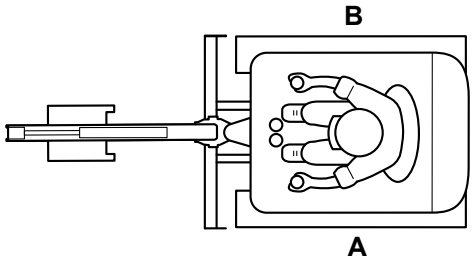
The manufacturer's policy is one of continuous improvement. The right to change the specification of the product without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the product and the descriptions contained in this manual.

All of the optional equipment included in this manual may not be available in all territories

Left-Hand Side, Right-Hand Side

In this manual, 'left' and 'right' mean your left and right when you are seated correctly in the machine.

Figure 1.



A Left

B Right

Cab/Canopy

This manual frequently makes references to the cab. For example, 'do not operate the machine without an operator's manual in the cab'. These statements also apply to canopy build machines.

Cross References

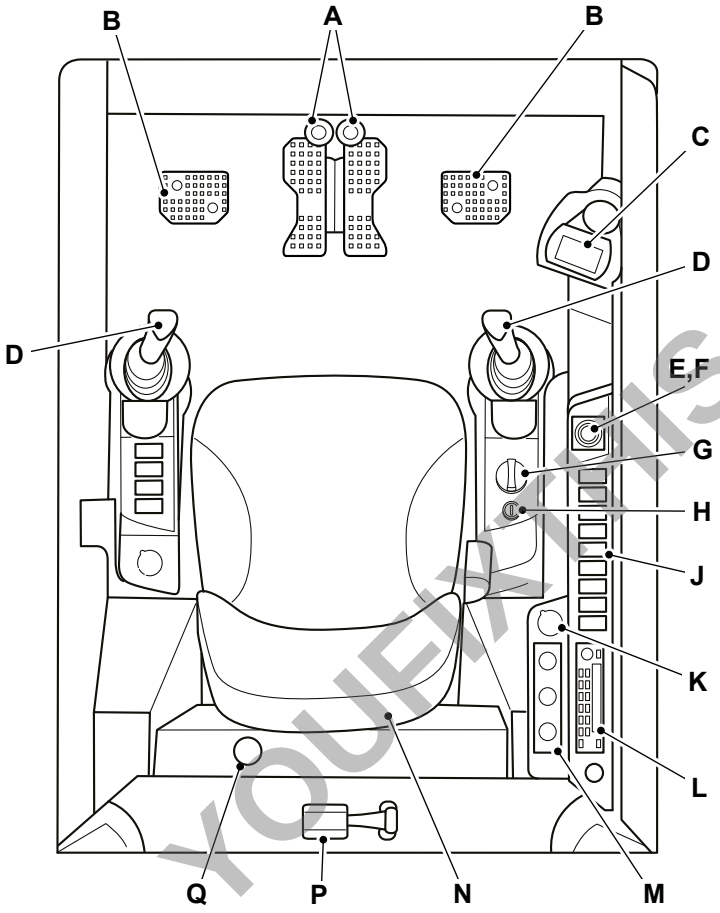
In this manual, cross references are made by presenting the subject title in blue (electronic copy only). The number of the page upon which the subject begins is indicated within the brackets. For example: Refer to: Introduction > About this Manual > Cross References (Page 1).

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Operator Station

Component Locations

Figure 11.



A Track controls Refer to: Operation > Drive Controls > Track Controls (Page 57).
B Foot rest (option)
C Instrument panel Refer to: Operation > Instruments (Page 59).
D Excavator controls Refer to: Operation > Operating Levers/Pedals > Excavator Arm Controls (Page 71).
E Dozer blade control lever Refer to: Operation > Operating Levers/Pedals > Dozer Blade Controls (Page 74).
F Two-speed tracking switch Refer to: Operation > Drive Controls > Track Controls (Page 57).
G Hand throttle control Refer to: Operation > Drive Controls > Hand Throttle Control (Page 57).
H Ignition key switch Refer to: About the Product > Interior Switches > Ignition Switch (Page 20).
J Switch console Refer to: About the Product > Console Switches (Page 18).
K Auxiliary power socket Refer to: Operation > Power Sockets (Page 87).
L Entertainment system
M HVAC (Heating Ventilation Air Conditioning) controls Refer to: Operation > Heating, Ventilating and Air-Conditioning (HVAC) (Page 85).
N Operator seat Refer to: Operation > Operator Seat (Page 41).
P Glass hammer Refer to: Operation > Entering and Leaving the Operator Station > Emergency Exit (Page 32).
Q Fire extinguisher (option)Refer to: Operation > Fire Extinguisher (Page 89).

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Operation
Introduction

General

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.

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.

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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Attachments
Working with Attachments

Introduction

Attachments

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.

Metal Splinters

You can be injured by flying metal splinters when driving metal pins in or out. Use a soft faced hammer or copper drift to remove and install metal pins. Always wear personal protective equipment.

Attachments

If you have an attachment which is not covered in the Operator's 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.

Some attachments are supplied with the instructions on the safety, installation, removal, operation and maintenance procedures. Read and fully understand these procedures before the attachment is installed, used and serviced. If there is anything you do not understand, ask your JCB dealer.

Before you use an attachment, make sure you understand how the attachment will affect the operational safety.

When an attachment is installed, there may be changes in the machines centre of gravity or overall dimensions. These change can effect for example, the machine stability, the gradients on which it is safe to operate or the safe distance from power lines.

Practice with an attachment off the job before you work with it for the first time.

A JCB attachment is designed and manufactured specifically to suit the machines hydraulic system, mounting components and safe load requirements.

An attachment which is not designed for use with the machine can cause damage and create a safety hazard for which JCB cannot be held responsible. Also the machines warranty and any other legislative compliance can be affected by the use of non JCB approved attachments.

If your machine needs the hydraulic system adapting to use an auxiliary attachment, you must consult your JCB dealer. Only suitably qualified personnel must re-route the hydraulic hoses.

All optional attachments will have limits on their operation for example, the lifting capacity, speeds, hydraulic flow rates. Always check the instructions supplied with the attachment or in the Specification section of this manual. Some specification limits may also be shown on the data/rating plate on the attachment.

This section of the Operator's Manual includes general information on the operation of the attachment and the procedures for the installation and removal of the attachment.

Attachments for your Machine

⚠ **CAUTION** Operation of this machine with an earth drill or breaker attached will alter machine stability.

Attachments will help increase the productivity of your machine, for more information contact your JCB dealer.

Remember, do not operate an attachment until you have read and fully understand the attachment operating instructions.

Do not operate or work with attachments until the machine hydraulic oil has reached its normal working temperature.

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Transporting the Machine

General

⚠ **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.

WARNING Make sure that the ramp incline does not exceed the machine's operational limits.

CAUTION Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Remove oil, grease and ice from the machine tracks. Make sure the machine will not foul on the ramp angle.

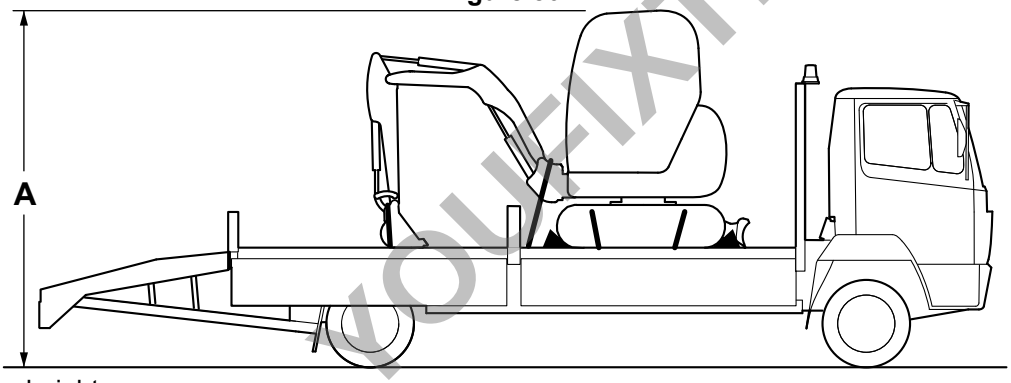
Before transporting the machine make sure you will be obeying the local rules and laws regarding machine transportation of all the areas that the machine will be carried through.

Check the condition of the transporting vehicle before loading the machine on to its trailer.

Check the Condition of the Transporting Vehicle

1. Make sure that the transporting vehicle is suitable for the dimensions and weight of your machine. Measure the clearance height. Make sure that the truck driver knows the clearance height before he drives away.

Figure 80.



A Clearance height

2. Remove all loose dirt that may otherwise come off and obstruct the highway and damage other vehicles.
3. Check the operation of the park brake.
4. Check the trailer bodywork for signs of damage.
5. Check the tyre pressures are correct (consult the manufacturer's manual).
6. Check the trailer lights are working and are the correct voltage for the towing vehicle (consult the manufacturer's manual).
7. Check the breakaway cable is serviceable.

Loading the Machine onto the Transporting Vehicle/Trailer

⚠ **CAUTION** The machine must be securely tied down to the transport vehicle to prevent lateral movement, fore-and-aft movement, and slewing of the superstructure. Failure to do so could cause injury to yourself or others.

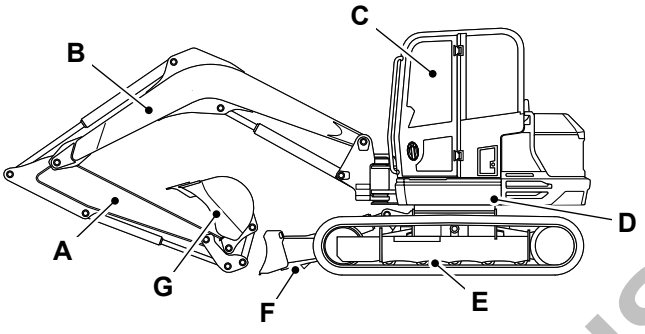
1. Position the transporting vehicle on solid, level ground.
2. Apply the park brakes and lower any stability jacks.
3. Attach the loading ramps on to the transporter correctly.
4. Align the machine with the loading ramps, position the dozer blade to the front and fully raised.

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Before you do a maintenance task, make the product safe.

Main Component Locations

Figure 3.



A Dipper (part of the excavator arm)
B Boom (part of the excavator arm)
C Cab (contains the operator station)
D Upper structure
E Undercarriage
F Dozer blade
G Bucket

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Figure 10.

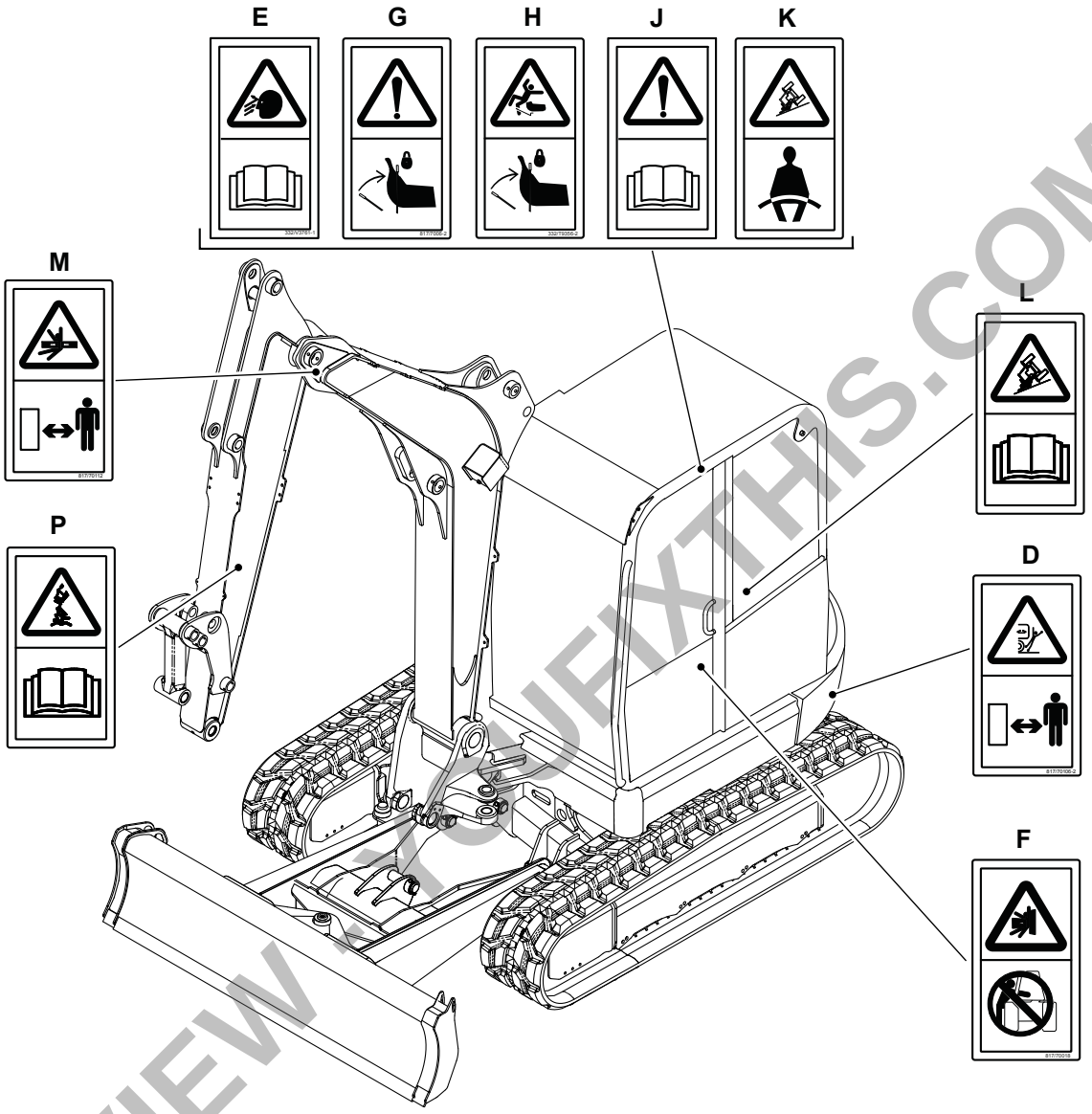


Table 3. Safety Labels

Item	Part No.	Description	Qty.
A	817/70012	Run over hazard. Start the engine from the operator's seat only. Do not short across the terminals.	1
B	817/70002	Pressure hazard. Stop the engine, remove the starter key and consult the Service Manual before you complete any service or maintenance work.	1
C	817/70004	Burns to fingers and hands. Stay a safe distance away.	1
D	817/70007	Strike to whole body (machine swing). Keep a safe distance from the machine.	2
E	332/V3761	Flying debris warning. Read the Operator’s Manual.	1
F	817/70018	Crushing of whole body. Do not operate the controls from outside of the machine.	1
G	817/70006	Unexpected machine movement due to accidental contact with the controls when the hydraulics are not isolated.	1
H	332/T9356	Falling hazard. Lift the lever lock.	1
J	817/70014	Warning. Read the Operator’s Manual before you operate the machine.	1
K	817/70029	Crush hazard. Wear seat belt.	1

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Hydraulic Active Mode Variants

The hydraulic active mode includes the following details as shown.

Figure 49.

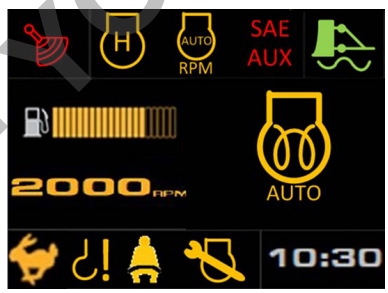


A Auto warm hydraulics active mode (high flow single acting aux return circuit only)
B Hydraulics active mode
C Hydraulics inactive mode

Main Screen Auto Warm Active

This symbol will blink on and off to allow the operator to see the coolant and hydraulic temps during an active auto warm state.

Figure 50.



Errors

Main Screen with Major Warning

If a major warning is present the instrument panel will display the warning on the right hand side in red (regardless of what screen is selected). The operator can acknowledge the fault so that the warning buzzer is silenced by pressing the centre button on the instrument display panel. The warning symbol will stay illuminated on the screen. The next fault will appear, once all faults are acknowledged it will continuously scroll at 2s intervals until all the faults are resolved. If you do not acknowledge the faults, they will continue to scroll and sound the buzzer.

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Tracks

General

Clean

1. Make the machine safe.

   Refer to: Maintenance > Maintenance Positions > Maintenance Position (Excavator Arm Lowered) (Page 140).

2. Park the machine on solid, level ground.
3. Lower the bucket to the ground.
4. Clean the tracks with water.
5. Track forwards or backwards to clean the remainder of the tracks.
6. Make the machine safe.
7. Examine the track, roller sprockets and idler wheels for damage or oil leaks. Replace any damaged parts. If in doubt consult your JCB distributor.

Steel

Check (Operation)

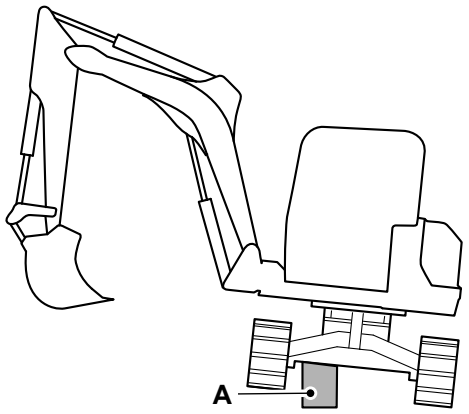
⚠ **WARNING** Recoil unit servicing must only be carried out by JCB dealers. You could be killed or injured if you tamper with it.

Notice: Always make sure that the track tension measurement is not less than specified or severe strain to the track will result.

Check the Tension

1. Park the machine on solid, level ground.
2. Operate the tracks backwards and forwards several times.
3. Stop the machine after operating the tracks forwards.
4. Set the machine in the posture shown with the track to be checked raised from the ground and supported. Add a support under the machine. It is the responsibility of the operator to support the machine correctly.

Figure 127.



A Support

5. Check that the tension measurement is correct.

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