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Safety

Safety - Yours and Others

All machinery can be hazardous. When a machine is correctly operated and maintained, it is a safe machine 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 machine 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 machine you must be thinking of what hazards there might be and how to avoid them.

Do not work with the machine 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 machine 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 machine, 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 machine damage.

The safety alert system (shown) also helps to identify important safety messages in this manual and on the machine. 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



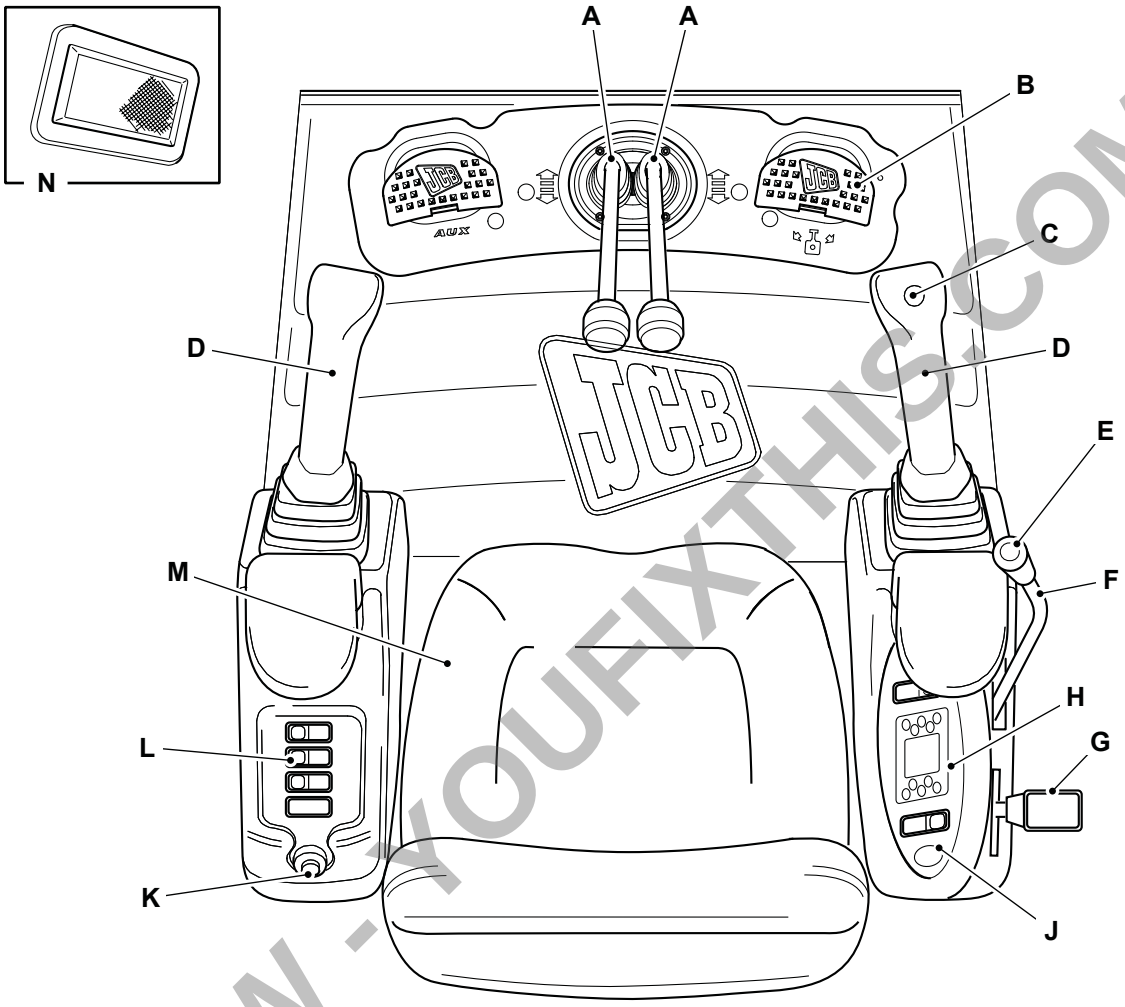
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Operator Station

Component Locations

Figure 8.



A Track controls Refer to: Track Controls (Page 52).
B Swing/auxiliary pedal Refer to: Excavator Arm Controls (Page 58).
C HornRefer to: Excavator Arm Controls (Page 58).
D Excavator controls Refer to: Excavator Arm Controls (Page 58).
E Two-speed tracking switch
F Dozer blade control Refer to: Dozer Blade Controls (Page 61).
G Hand throttle control Refer to: Hand Throttle Control (Page 52).
H Instrument panel Refer to: Instrument Panel (Page 53).
J Ignition switch Refer to: Ignition Switch (Page 15).
K Auxiliary power socket Refer to: Auxiliary Power Socket (Page 74).
L Console switches Refer to: Console Switches (Page 16).
M Operator seat Refer to: Operator Seat (Page 36).
N Cab interior light Refer to: Cab Interior Light (Page 15).

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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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Fire Extinguisher

General

Location

The fire extinguisher is located behind the seat and is held in position by a stowage bracket. Keep the fire extinguisher in this position until you need to use it.

Operation

⚠ **WARNING** Do not use the fire extinguisher in a confined space. Make sure that the area is well ventilated during and after using the fire extinguisher.

WARNING After any use, the extinguisher must be replaced or serviced.

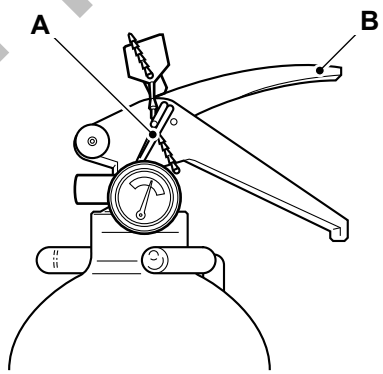
Make sure that you understand how to use the fire extinguisher. If necessary, refer to the instructions found on the fire extinguisher.

Only try to extinguish a fire if the circumstances permit and your safety is not endangered. If necessary, contact your nearest fire department.

Using the fire extinguisher:

1. If the circumstances permit and your safety is not endangered, move the machine to a safe place to prevent the fire from spreading.
2. Remove extinguisher from its stowage bracket.
3. Remove safety pin.
4. Aim directly at the fire from an upwind position, if possible.
5. Squeeze trigger to operate the extinguisher, release the trigger to stop the flow.

Figure 66.



A Safety pin **B** Trigger

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2. Stop the engine and let it cool for at least one hour. Do not try to clean any part of the engine while it is running.
3. Make sure that all of the electrical connectors are correctly coupled. If the connectors are open, attach the correct caps or seal with water proof tape.

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Technical Data
Static Dimensions

Dimensions

For: 8014 CTS ..... Page 155
For: 8016 CTS ..... Page 156
For: 8018 CTS ..... Page 157
For: 8020 CTS ..... Page 158

(For: 8014 CTS)

Figure 113.

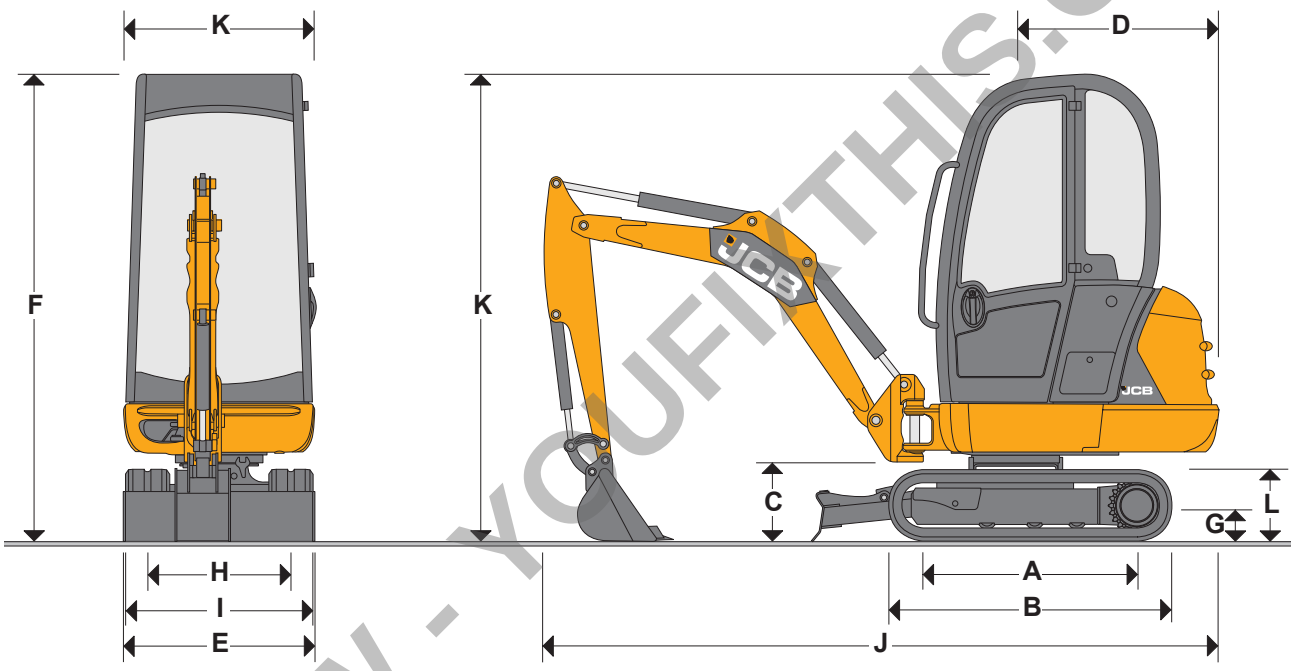


Table 10. Machine Dimensions

Dimension	Description	8014 CTS
		mm
A	Sprocket idler centres	1,027
B	Undercarriage (overall length)	1,382
C	Kingpost clearance	373
D	Tailswing radius	1,059
E	Overall width	996
F	Height over the cab	(without fogs) 2,318 (with fogs) 2,340
G	Ground clearance	146
H	Track gauge	742
I	Width over the tracks - retracted	972
F	Width over the tracks - extended	N/A
J	Transport length - standard dipper	3,409
J	Transport length - long dipper	N/A
J	Transport length - gravemaster dipper	N/A

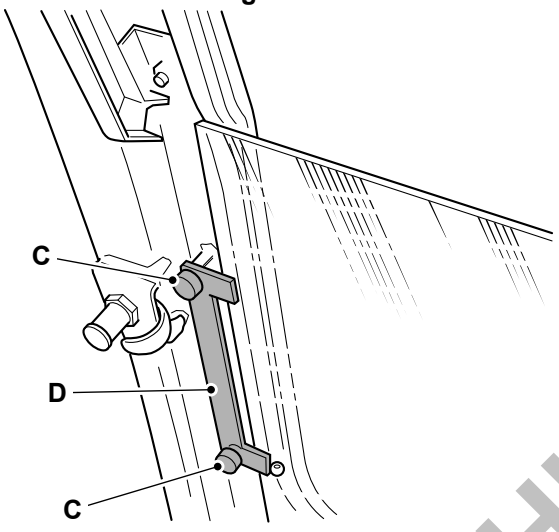
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Notes:

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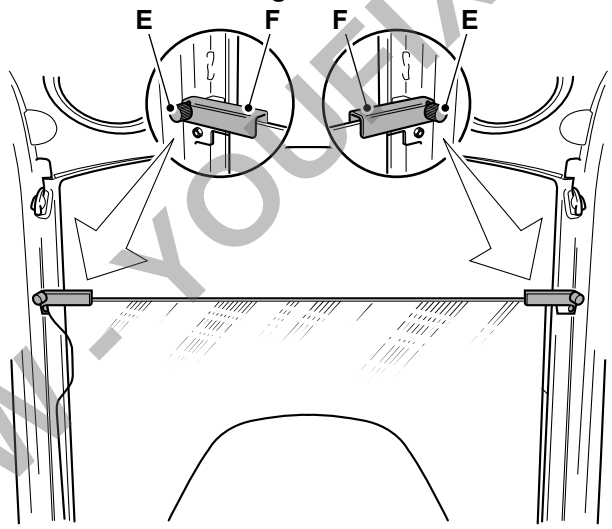
Figure 19.



C Bolts **D** Retaining bar

4. Loosen the bolts and turn retainers to the raised position.

Figure 20.



E Bolts **F** Retainers

5. Carefully lift out the front window lower panel and stow it next to the rear window as shown.
6. Turn retainers to hold the panel and tighten bolts.

To install the front window lower panel, reverse the removal procedure. Make sure the right hand edge of the panel is located correctly in the groove on the front window pillar before installing the retaining bar.

Side Window

The side window is held closed by a latch operated from inside the cab.

To open the window, pinch and hold the latch then slide the window to the desired position.

To close the window, pinch and hold the latch then slide the window fully shut. Check that the latch has located on the frame.

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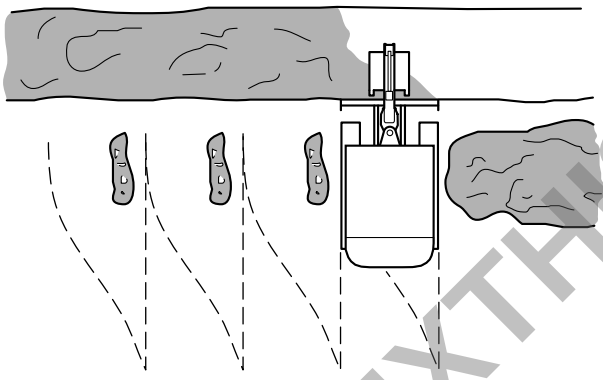
Backfilling

When you backfill on a slope, pile the material on the high side of the trench when possible.

Move the dozer blade level to the ground. Work at right angles to the trench, fill a dozer blades width at a time. Leave any spillage until the trench is filled.

Use the spillage to finish the job by driving the length of the trench with the dozer blade low to the ground.

Figure 64.



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Service/Maintenance Agreements

To help plan and spread the costs of maintaining your machine, we strongly recommend you take advantage of the many service and maintenance agreements your dealer can offer. These can be tailor made to meet your operating conditions, work schedule etc.

Please consult your JCB dealer for details.

Obtaining Spare Parts

If you use non-genuine JCB parts or consumables, then you can compromise the health and safety of the operator and cause machine failure.

A parts book for your machine is available from your JCB dealer. The parts book will help you identify parts and order them from your JCB dealer.

Your dealer will need to know the exact model, build and serial number of your machine. Refer to: Product and Component Identification (Page 10).

The data plate also shows the serial numbers of the engine, transmission and axle(s), where applicable. Remember, if any of these units have been changed, the serial number on the data plate may be wrong. Check on the unit itself.

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Refer to: Maintenance Positions (Page 122).

2. Get access to the batteries.
   Refer to: Access Apertures (Page 125).
3. If the machine has a battery isolator, move the switch to the off position then remove the key.
   Refer to: Battery Isolator (Page 34).
4. Disconnect the battery leads. Disconnect the earth (-) terminal first.

Battery Isolator

Check (Operation)

⚠ **Notice:** Do not isolate the machine electrics when the engine is running, this may cause damage to the machine electrics.

1. Isolate the machine electrics.
2. Make sure that the machine electrics are isolated.

A defective isolator must be repaired before the machine is used. For more information, contact your JCB dealer.

Fuses

Replace

The electrical circuits are protected by fuses. If a fuse blows, find out why before a new one is installed.

Notice: *Always replace fuses with ones of correct ampere rating to avoid electrical system damage.*

Refer to: Fuses (Page 182).

1. Make the machine safe.
   Refer to: Maintenance Position (Excavator Arm Lowered) (Page 122).
2. The primary and secondary fuses are located in the engine compartment underneath the right side engine compartment cover hinge.
   2.1. Open the engine compartment cover.
   2.2. Remove the cover to get access to the secondary fuses.
   2.3. Install the cover.
   2.4. Close the engine compartment cover

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