

## Quick Start Guide



### Compact Excavators

8025 ZTS, 8026 CTS,  
8030 ZTS, 8035 ZTS



## Disclaimer

- > This Quick Reference Guide is to provide quick and simple information to the Operator and does not include any health and safety aspects. In addition, because of our continual development of machines, features described in this Quick Reference Guide may differ from those on your machine. No errors and emissions be entirely ruled out.
- > This Quick Reference Guide **DOES NOT** replace the Operators Manual. You **MUST** read **ALL** the disclaimers and safety and other instructions in the Operators Manual before initially operating this product. Accordingly, no legal claims can be entertained on the basis of the data, illustrations or descriptions in this Quick Reference Guide.
- > This machine should not be operated by any person who isn't appropriately qualified or had the appropriate training.
- > Operation of this machine without periodic maintenance could cause it to malfunction. For more information please contact your JCB Dealer.

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## Intended Use

### General

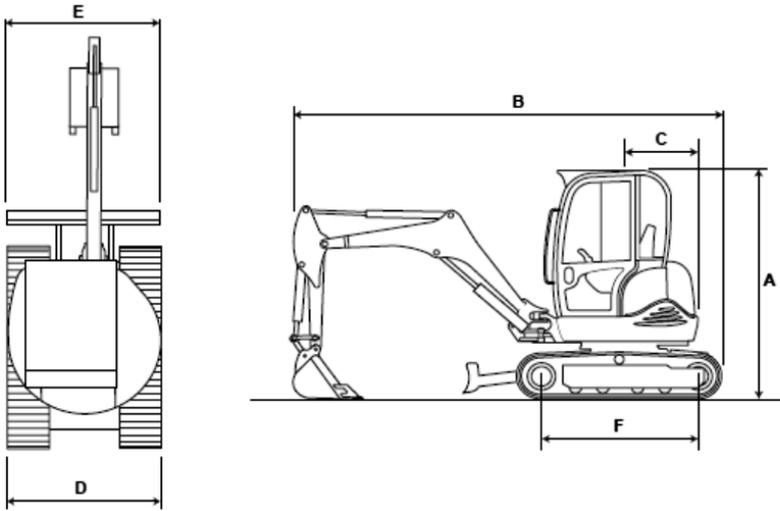
- > Machine Type – Compact Excavator
- > Self propelled machine with a tracked undercarriage
- > 360° revolving upper structure with boom, dipper, bucket and slew mechanism

### Intended Use

- > Machine intended to be used in normal conditions as detailed in the operators manual
- > With bucket fitted, machine work cycle consists of digging, elevating, slewing and discharging of materials
- > Applications include earthmoving, road construction, building and construction, landscaping etc.
- > Can be used for object handling
- > Not intended for use in mining and quarrying applications, demolition, forestry, any use underground and any explosive atmospheres.
- > Must not be used for forestry, used with attachments of unknown weight, used on surfaces with unknown stability – list not exhaustive
- > PPE may be required in certain applications/environments e.g. high silica concentration or asbestos
- > TThe machine should not be operated by any person without appropriate qualifications, training or experience of using this type of machine
- > Prior to use, the machines suitability should be considered with regards to the intended applications and any hazards which may be present

## Dimensions

Fig 1

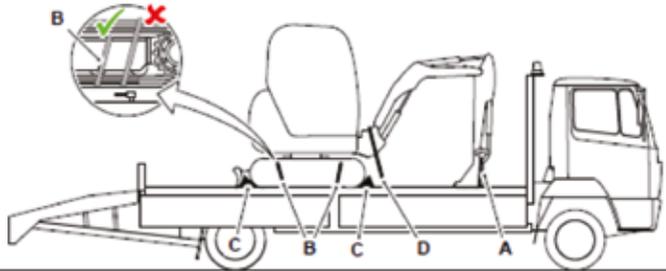


Machine model			8025 ZTS	8026 CTS	8030 ZTS	8035 ZTS
A	Overall height (transport position)	mm	2470	2470	2470	2475
B	Overall length (transport position)	mm	4280	4220	4287	4462
C	Tailswing	mm	750	1225	800	850
D	Track width	mm	1502	1502	1650	1750
E	Superstructure width	mm	1550	1550	1650	1656
F	Track centres	mm	1440	1440	1597	1707
	Operating weight*	kg	2685	2700	3217	3651

\* Standard machine specification, please see data plate for specific machine weight.

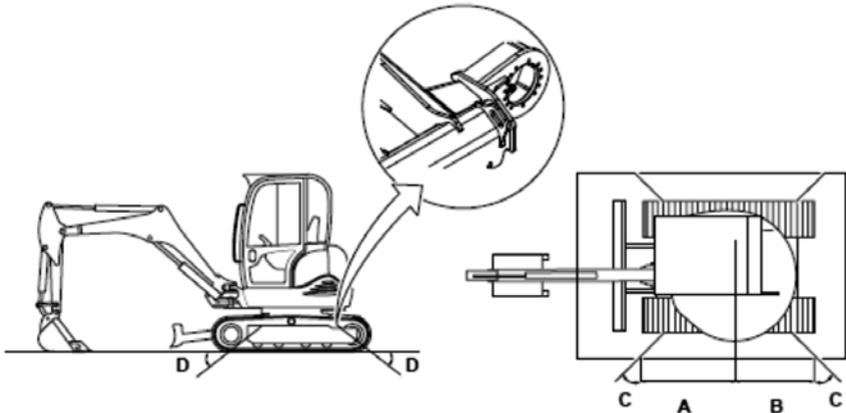
## Tie Down Points

Fig 2



- A** Securing strap (bucket)
- B** Securing strap (front and rear of the two track legs)
- C** Skids
- D** Securing strap (kingpost)

Fig 3



- A** Length = 900 + 100mm
- B** Length = 950 + 100mm
- C** Angle =  $46^\circ \pm 7^\circ$
- D** Angle =  $36.5^\circ \pm 6.5^\circ$

**Lashing capacity** 30,000N

**Minimum lashing breaking force** 50,000N

Tie down position decal.



REFER TO OPERATORS MANUAL TRANSPORTING MACHINE

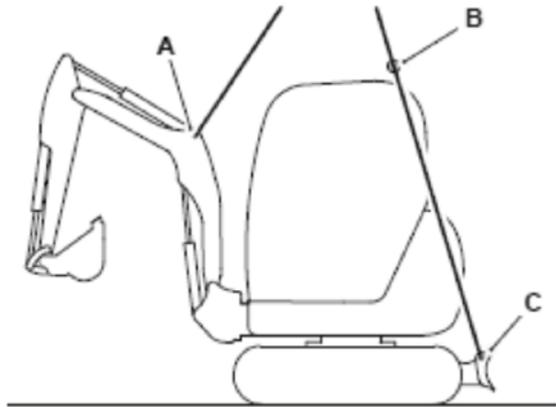
## Lifting Points

Carry out the following procedure when lifting a machine:

1. Remove all attachments.
2. Remove all loose equipment from machine exterior.
3. Check the unladen weight of the machine.
4. Attach lifting equipment to each end of the dozer blade.
5. Attach lifting equipment to each side of the boom.
6. Take the weight of the machine. Make sure the slings do not interfere with the cab. It may be necessary to use a spacer bar between the slings.
7. Check that the lifting eye is positioned directly above the machine centre of gravity.

Fig 4

- A** Boom lift point
- B** Spacer bar
- C** Dozer blade lift point



The correct lifting positions are identified on the machine by their labels:



Lifting point position label.

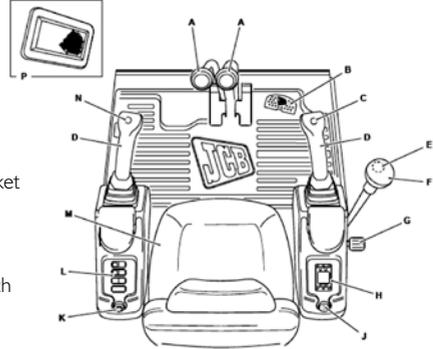
REFER TO OPERATORS MANUAL TRANSPORTING MACHINE

## Cab & Switch Panel

### Operator Station Layout

Fig 5

- A** Track control
- B** Swing/auxiliary pedals
- C** Horn
- D** Excavator controls
- E** Two-speed tracking switch
- F** Dozer blade control
- G** Hand throttle control
- H** Instrument panel
- J** Ignition switch
- K** Auxiliary power socket
- L** Console switches
- M** Operator seat
- N** Swing/auxiliary switch
- P** Cab interior light



### Switch Panel

Fig 6

- A** Graphic symbol
  - B** Light bar
- The rocker switches have two or three positions (as shown)

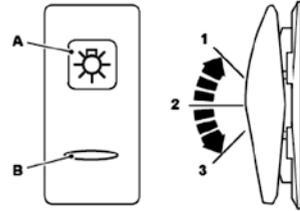


Fig 7



#### Work Lights

- 1** Off
- 2** On (Boom)
- 3** On (Boom & Cab)



#### Window Wipers

- 1** Off
- 2** On
- 2** Washer (if installed)



#### Beacon

- 1** Off
- 2** On



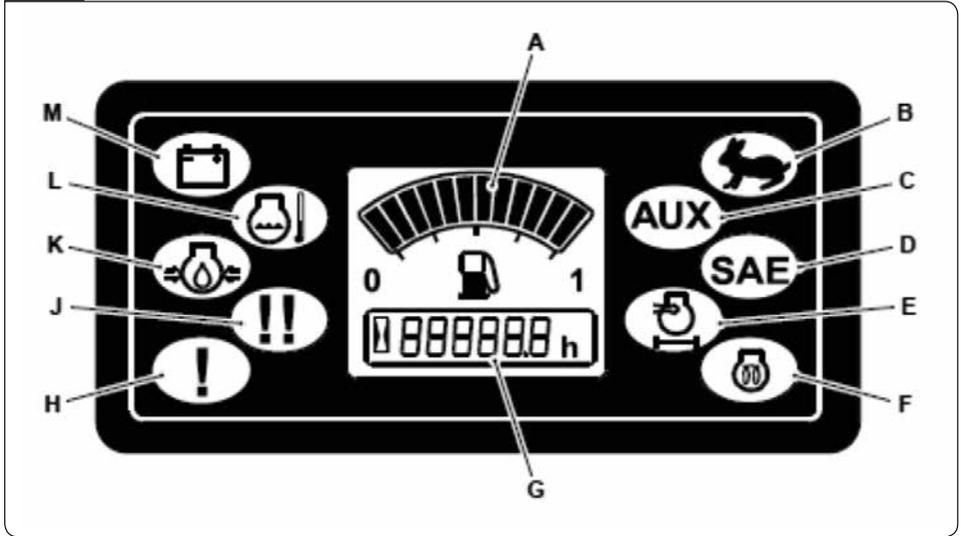
#### Overload Warning System

- 1** Off
- 2** On (Boom)

## Instrument Panel

### Instrument Panel

Fig 8



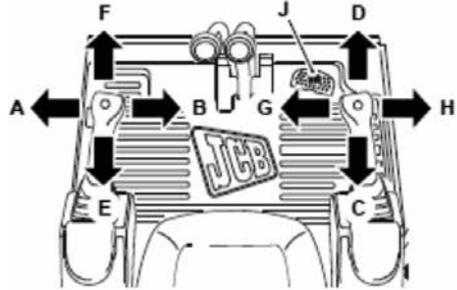
- A** Fuel gauge
- B** Two speed (high engaged) indicator
- C** Auxiliary service (selected) indicator
- D** SAE controls (selected) indicator
- E** Air filter (blocked) indicator
- F** Glow plugs (on) indicator
- G** Hourmeter
- H** Indicator is not installed on this machine
- J** Indicator is not installed on this machine
- K** Engine oil (low) indicator
- L** Coolant temperature (high) indicator
- M** Charge (fault) indicator

## Excavator Controls

### ISO Control Pattern

Fig 9

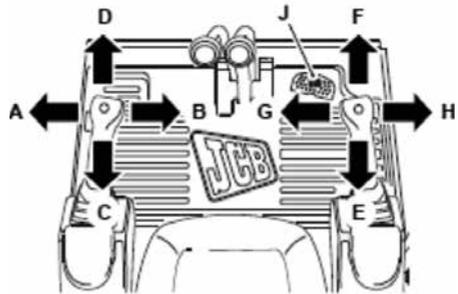
- A** Slew cab left
- B** Slew cab right
- C** Raise boom
- D** Lower boom
- E** Dipper in
- F** Dipper out
- G** Crowd bucket (to gather a load)
- H** Dump bucket (to dump a load)
- J** Swing boom



### SAE Control Pattern

Fig 10

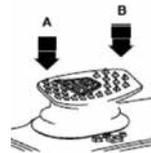
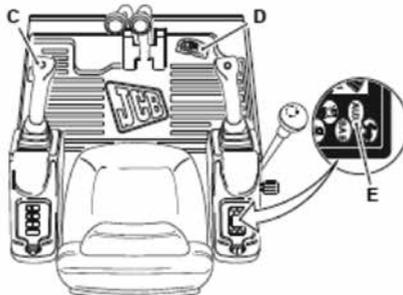
- A** Slew cab left
- B** Slew cab right
- C** Raise boom
- D** Lower boom
- E** Dipper in
- F** Dipper out
- G** Crowd bucket (to gather a load)
- H** Dump bucket (to dump a load)
- J** Swing boom



### Swing and Auxiliary Controls

Fig 11

- A** Swing left
- B** Swing right
- C** Swing/auxiliary switch
- D** Swing/auxiliary pedal
- E** AUX indicator lamp



- A** Left AUX function
- B** Right AUX function  
(double-acting attachments only)

## Dozer Lever

Fig 12

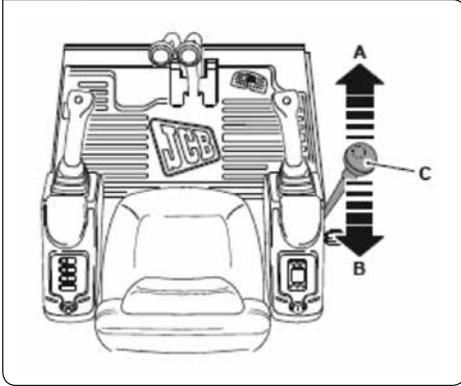
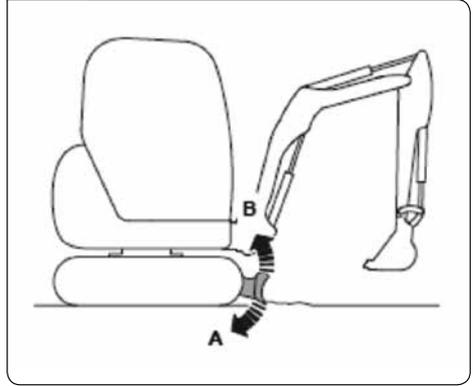


Fig 13

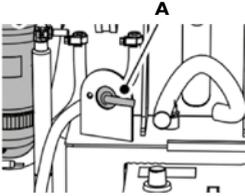


- A** Lower the dozer
- B** Raise the dozer
- C** Control lever

## Start Up Sequence

### 1 Insert Isolator Key

Insert isolator key (A) and turn in a clockwise direction.



### 2 Raise LH Arm Rest

Ensure the hydraulic isolation lever (left hand arm rest) is in the raised position.

- A Handle
- B LH arm rest



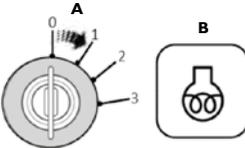
### 3 Engage Seat Belt

Engage seat belt (A) into latch (B) before starting machine.



### 4 Engine Pre Heat

Turn ignition to position 1 (A) to pre-heat engine before start. Wait until pre-heat symbol (B) on instrument panel goes off.



### 5 Disarm Immobiliser

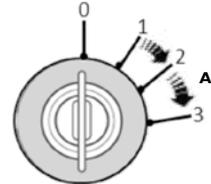
If fitted, disarm by entering 4-digit PIN code than push ENT button.

The LED will come on for 3 seconds.



### 6 Start Machine

From ignition position 1 turn ignition to position 3 (A) to start the machine.



### 7 Lower LH Arm Rest

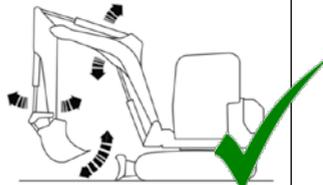
Lower the LH arm rest to activate the hydraulics.

- A Handle
- B LH arm rest



### 9 Operate Machine

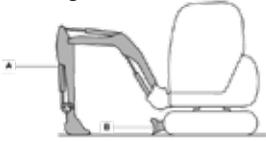
All controls are now active and the machine is now ready to use.



## Shut Down Sequence

### 1 Park Machine Up

Park the machine on firm level ground. Position the attachment (A) just above the ground and dozer (B) on the ground.



### 2 Leave & Secure

Switch off all switches. Leave machine using the handrails and footholds. Close & lock all doors and windows to secure machine.



### 3 Isolate Machine

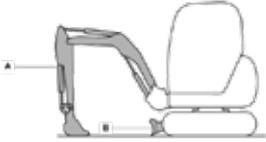
Turn isolator key anti-clockwise and remove key.



## Mechanical Hitch Unlock System

### 1 Park Machine Up

Park the machine on firm level ground. Position the attachment (A) just above the ground and dozer (B) on the ground.



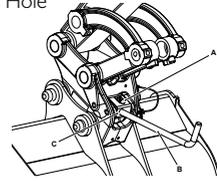
### 2 Disconnect Attachment

Stop the engine, remove any connected hydraulic hoses and remove the locking pin.

### 3 Insert tommy bar

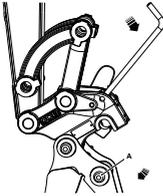
Insert the tommy bar into the hole of the latch hook.

**A** Latch Hook **B** Tommy Bar  
**C** Hole



### 4 Release Attachment

Apply downward pressure to the tommy bar to release the buckets rear pivot.

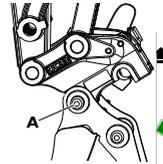


### 5 Restart Machine

Start the engine, rest attachment on the ground and engage the hydraulics.

### 6 Remove Attachment

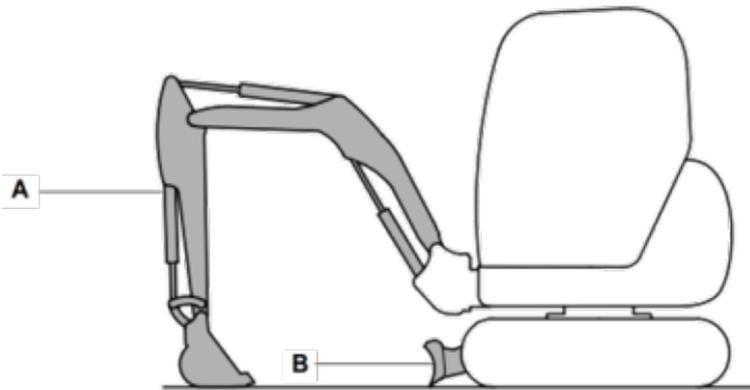
Slowly roll the quickhitch in the direction of the arrow whilst raising the dipper to release the front pivot (A).



## Maintenance Position

1. Park the machine on solid, level ground
  - I. Release the two track levers
  - II. Set the hand throttle lever to the idle position
2. Lower the dozer blade (B)
3. Lower the excavator so the attachment is flat on the ground (A)

**Fig 14**



- A** Attachment flat on the ground
- B** Dozer blade lowered to ground

4. Stop the engine
5. Discharge the hydraulic pressure
6. Isolate the controls and remove ignition key
7. Isolate the battery to prevent accidental operation of the engine

The double-acting ball valve must be open for single-acting attachments and closed for double-acting attachments.

## Service & Maintenance

Daily Checks (10h)	Action
Check condition of attachments / optional equipment	Visual check
Grease attachments / optional equipment/ pivot pins as required	Lubricate
Clean bodywork and framework	Clean
Check condition of bodywork and framework	Visual check
Check condition of cab/canopy including seat belt	Visual check
Check engine for leaks and oil level	Visual check
Check fuel system for leaks	Visual check
Drain water from water separator on fuel filter	Clean
Check engine coolant for leaks, condition and level	Visual check
Check condition of cooling pack and system	Visual check
Check hydraulic oil level	Visual check
Check window washer fluid level	Visual check
Check the condition of the fire extinguisher	Visual check
Check operation of all services i.e. excavator, dozer etc.	Operate
Check operation of electrical equipment i.e. warning lights, beacon	Operate
Grease pivot pin	Lubricate

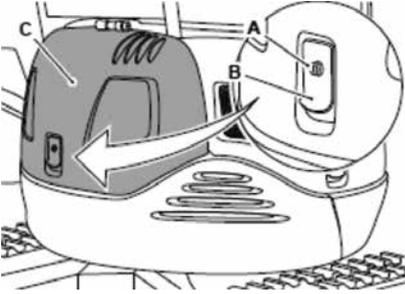
Weekly Checks (50h)	Action
Grease slew ring bearing	Lubricate
Clean cooling pack	Clean
Check condition and tension of tracks	Operate
Check condition of air filter	Visual check
Check condition of drive belt	Visual check
Check hydraulic hoses / pipework for leaks and damage	Operate
Check condition of the rams	Visual check
Check operation of electrical equipment i.e. warning lights, beacon	Operate
Clean the battery terminals	Clean
Check the operation of the battery isolator	Operate

## Service & Access Covers

### Engine Compartment Cover

Fig 15

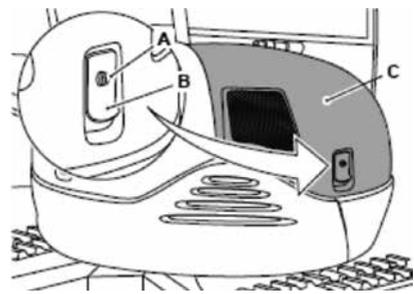
- A Button
- B Handle
- C Engine compartment cover



### Hydraulic Compartment Cover

Fig 16

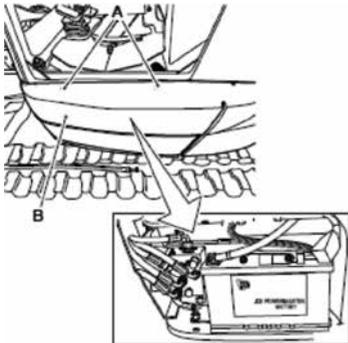
- A Button
- B Handle
- C Engine compartment cover



### Battery Cover

Fig 17

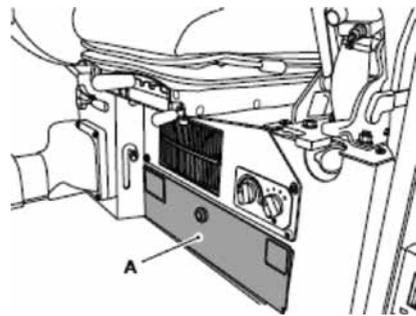
- A Bolts
- B Lower trim panel



### Toolbox

Fig 18

- A Toolbox

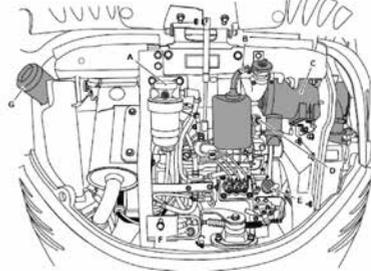


## Service & Access Covers

### Engine Compartment

**Fig 19**

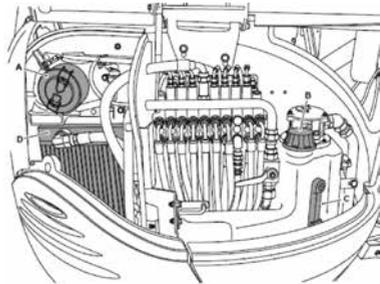
- A** Water separator
- B** Radiator cap and expansion bottle
- C** Air intake
- D** Drive belt tensioner
- E** Engine oil filler cap
- F** Engine oil dipstick
- G** Fuel tank filler cap



### Hydraulic Compartment

**Fig 20**

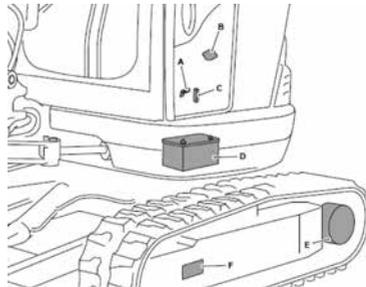
- A** Air intake
- B** Hydraulic oil filler cap
- C** Hydraulic oil filler cap
- D** Radiator



### Cab & Exterior

**Fig 21**

- A** Battery isolator
- B** Window washer fluid filler cap
- C** Fuses
- D** Battery
- E** Track gearbox
- F** Track tensioner



## Fluids & Lubricants

Item	Capacity	Fluid/lubricant	JCB Part Number	Container Size
Fuel Tank	36.5L	Diesel oil	–	–
Engine Oil	4.5L	Above -10°C (14°F): JCB Engine Oil HP 15W/40	4001/1505	20L
		-20°C (-4°F) to 50°C (122°F): JCB Cold Climate Engine Oil EP 5W40	4001/2705	20L
Engine Coolant	8.5L	JCB Antifreeze HP / Coolant / Water	4006/1120	20L
Track Gearbox (each)	0.8L	JCB Engine Oil HP SAE 30 (Not Multigrade)	4001/0305	20L
Track Idler Wheels	0.8L	JCB HD90 Gear Oil	4000/0305	20L
Track Rollers (top)	0.03L	JCB HD90 Gear Oil	4000/0305	20L
Track Rollers (bottom)	0.08L	JCB HD90 Gear Oil	4000/0305	20L
Hydraulic Tank	40L	Up to 30°C (86°F): JCB Hydraulic Fluid HP32	4002/1025	20L
		Over 30°C (86°F): JCB Hydraulic Fluid HP46	4002/0805	20L
Slew Ring Bearing	As required	JCB HP Grease	4003/2017	0.4kg
Slew Ring Gear Teeth	As required	JCB Special Slew Pinion Grease	4003/1619	0.4kg
All Other Grease	As required	JCB MPL-EP Grease	4003/1501	0.4kg

JCB part numbers are liable to change and may also vary by region.  
For the latest information, always check with your dealer/distributor.

## Machine Attachments

Description	Weight (kg)	Machines	Hydraulic Requirements
Mechanical Quickhitch	37	8025 – 8035	None
Bucket GP 230mm	48 – 57	8025 – 8035	None
Bucket GP 300mm	58 – 69	8025 – 8035	None
Bucket GP 460mm	71	8025 – 8026	None
Bucket GP 450mm	83	8030 – 8035	None
Bucket GP 600mm	86 – 97	8025 – 8035	None
Bucket GP 760mm	100 – 113	8025 – 8035	None
Dedicated Bucket 230 – 750mm	43 – 79	8025 – 8035	Quickhitch
Grading / Ditching Bucket 1000mm	57 – 78	8025 – 8026	None
Grading / Ditching Bucket 1200mm	124 – 141	8030 – 8035	None
Earth Drill – 3500 nM	130	8025 – 8035	1 x single acting aux service
Breaker – HM140	139	8025 – 8030	1 x single acting aux service
Breaker – HM140Q	139	8025 – 8030	1 x single acting aux service
Breaker – HM166Q	162	8025 – 8030	1 x single acting aux service
Breaker – HM266Q	234	8030 – 8035	1 x single acting aux service
Compactor	156	8025 – 8035	1 x single acting aux service

ATTACHMENT WEIGHTS ARE A GUIDE ONLY, ALWAYS CHECK YOUR OWN ATTACHMENTS

## Troubleshooting/FAQs

Issue / FAQ	Resolution/Answer
<b>How do I release pressure from my Auxiliary system?</b>	Turn key to position I, enter immobiliser code (if required). Enable Hydraulic controls, press the swing/aux button to select auxiliary, if the AUX indicator lamp is lit on the instrument panel is illuminated auxiliary has been selected. Make sure this is the case. Then use the swing/aux pedal and operate the auxiliary circuit to discharge any stored pressure.
<b>What are the max flow of the Auxiliary circuits?</b>	The maximum flow for the hydraulic circuits are as follows: 8025: 190 bar 8026: 190 bar 8030: 190 bar 8035: 206 bar
<b>Is it possible to turn off the lift overload buzzer?</b>	Yes. This can be done using the momentary rocker switch on the right hand console when the ignition switch is in the on position.
<b>Can you dig to dozer?</b>	Digging to dozer can not be done while machine dig end is central to the dozer. To dig to dozer slew machine over to the side then use the boom swing to offset the boom enabling digging up to the dozer. *

\* This is known by if the aux lamp on the instrument panel is not on. If it is press the left joystick button in until the lamp is turned off.







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