

Quick Start Guide



Compact Excavators
8008 CTS, 8010 CTS



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

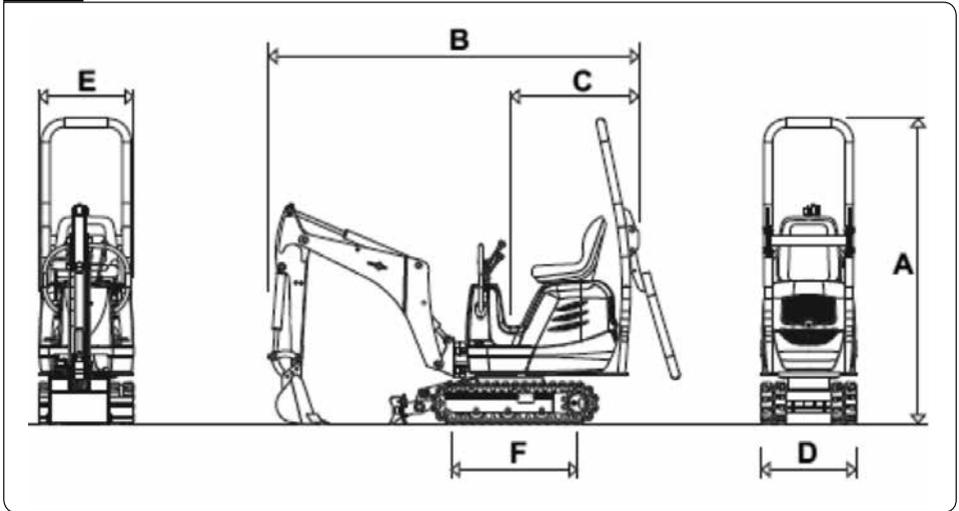
- > Machine Type – Compact Excavator
- > Self propelled machine with a tracked undercarriage
- > 360° revolving upper structure with boom, dipper, bucket and slew mechanism

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

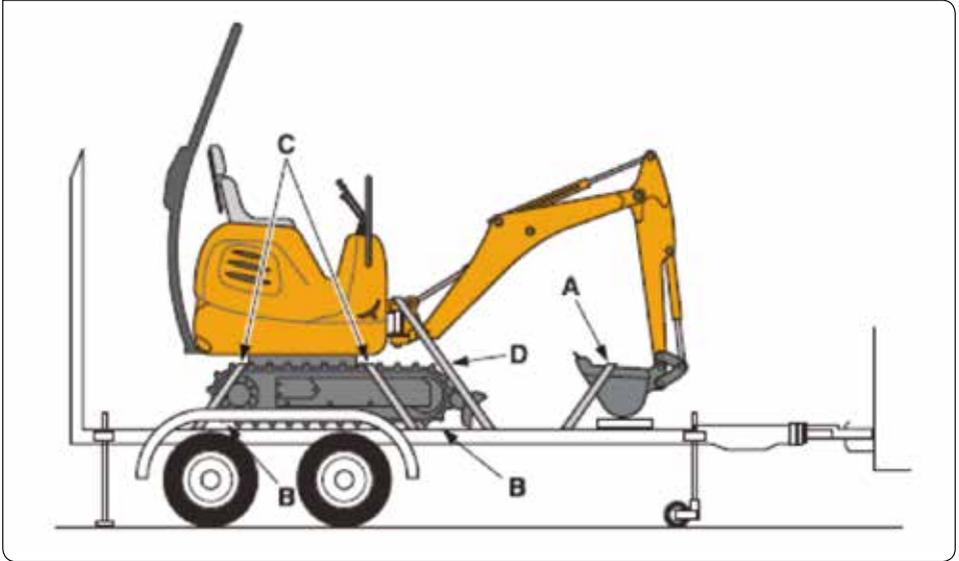


Machine model			8008 CTS	8010 CTS	
Dipper			–	800mm	950mm
A	Overall height (transport position)	mm	2310	2295	2295
B	Overall length (transport position)	mm	2682	2957	3000
C	Tailswing	mm	800	900	900
D	Track width - extended	mm	865	1000	1000
D	Track width - retracted	mm	700	700	700
E	Superstructure width	mm	865	930	930
F	Sprocket idle centres	mm	1440	1597	1707
	Operating weight*	kg	950	1110	1110*
	Transport weight	kg	875	1028	1028*

* Operating weight to ISO 6016 including cab, rubber tracks, standard dipper, standard dozer, (460 mm) bucket, full tanks and 75 kg operator. Please see data plate for specific machine weight

Tie Down Points

Fig 2



1. Machines fitted with mechanical slew lock, engage slew lock. Ensure by operating the slew control that the slew lock is engaged.
2. Close the bucket. Position the dipper vertically and lower the boom until the bucket rests on a wooden block on the trailer bed.
3. Position a wire rope A of suitable breaking strain over the bucket and secure to the trailer shackles.
4. Place skids B under each track at front and rear to prevent movement of the machine in the fore and aft direction.
5. Use nylon straps C of suitable breaking strain around each track at front and rear and secure to the trailer shackles to prevent lateral movement of the machine.
6. Attach wire ropes D of suitable breaking strain to the kingpost and secure to the trailer shackles to prevent the superstructure from slewing.

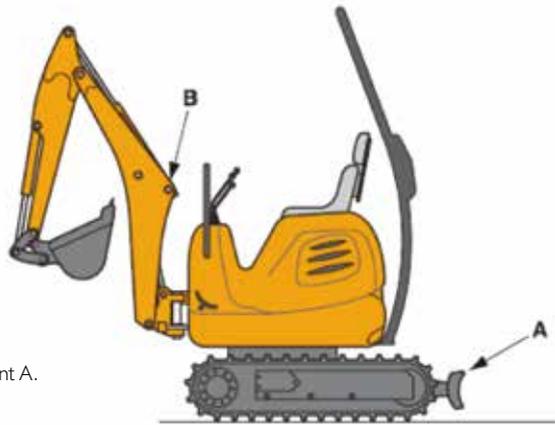
REFER TO OPERATORS MANUAL TRANSPORTING MACHINE

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.
7. Check that the lifting eye is positioned directly above the machine centre of gravity.

Fig 3



Lifting points have been provided on the machine as follows:

1. On each end of the dozer blade at point A.
2. On each side of the boom at points B.

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



Lifting point position label.

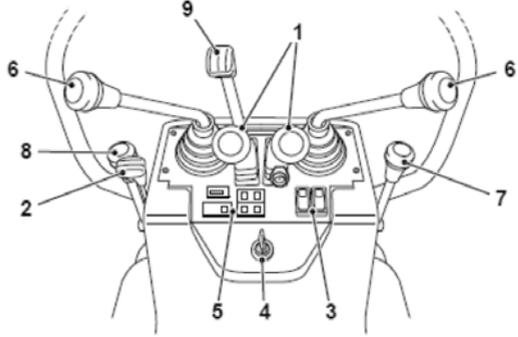
REFER TO OPERATORS MANUAL TRANSPORTING MACHINE

Cab & Switch Panel

Operator Station Layout

Fig 4

- 1 Track controls
- 2 Hand throttle lever
- 3 Console switches
- 4 Starter switch
- 5 Instrument panel
- 6 Excavator controls
- 7 Dozer control
- 8 Extending undercarriage control
- 9 Excavator lever lock



Switch Panel

Fig 5

- A Graphic symbol
- B Light bar

The rocker switches have two or three positions (as shown)

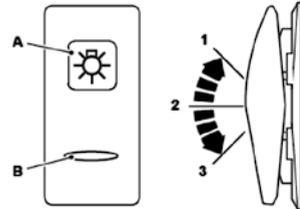


Fig 6



Work Lights

- 1 Off
- 2 Work light on

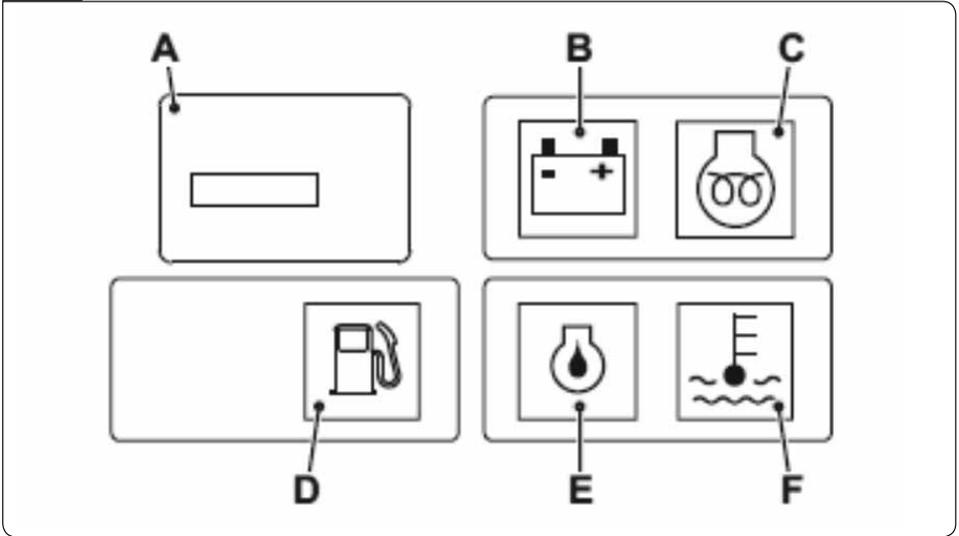


Horn

- 1 Off
- 3 On

Instrument Panel

Fig 7



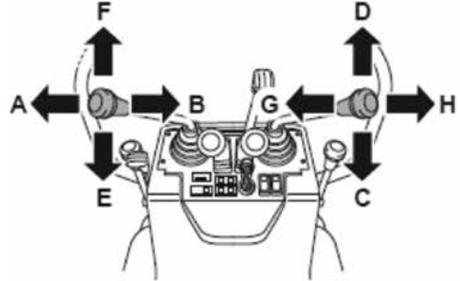
- A** Hourmeter
- B** Charge (fault) indicator
- C** Glow plugs (on) indicator
- D** Low fuel indicator
- E** Engine oil pressure (low) indicator
- F** Coolant temperature (high) indicator

Excavator Controls

Excavator Levers

Fig 8

- A Slew cab left
- B Slew cab right
- C Raise boom
- D Lower boom
- E Dipper in
- F Dipper out
- G Close bucket (to gather a load)
- H Open bucket (to dump a load)



Swing Pedal

Fig 9

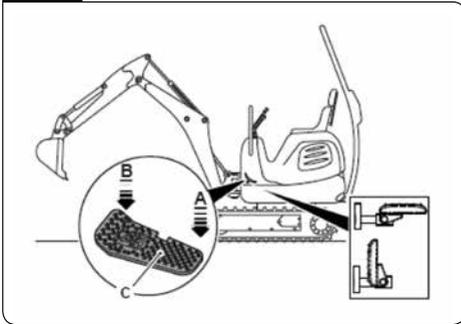
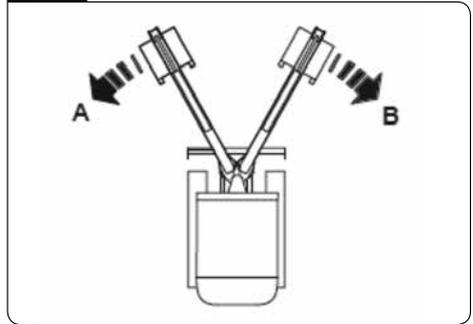


Fig 10



WARNING: The swing and auxiliary pedals must be in their folded positions when not in use.

- A Swing left
- B Swing right
- C Swing pedal (fold down into operating position)

Dozer Lever

Fig 11

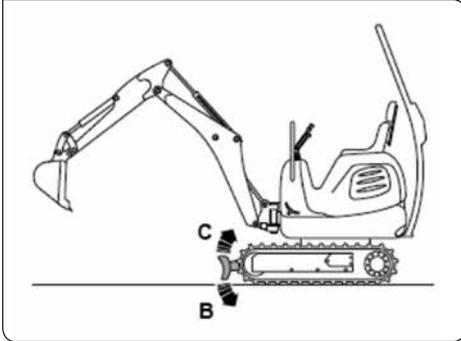
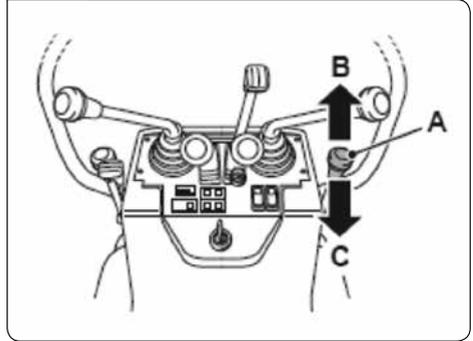


Fig 12



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

Extending Undercarriage

Fig 13

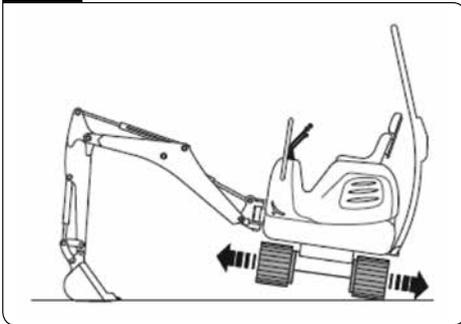
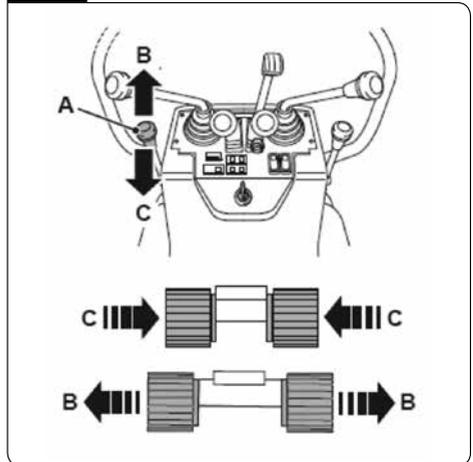


Fig 14



- A Control lever
- B Extend undercarriage
- C Retract undercarriage

Start Up Sequence

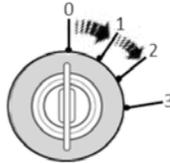
1 Engage Seat Belt

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



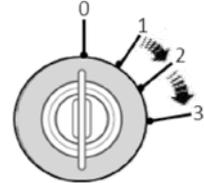
2 Engine Pre Heat

Move the throttle lever to half speed position. Turn the starter key to position 2 for 6 seconds to warm the engine.



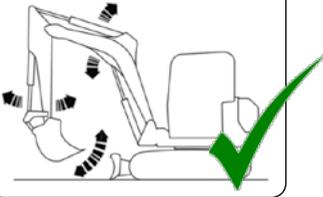
3 Start Machine

From ignition position 2 turn ignition to position 3 to start the machine.



4 Operate Machine

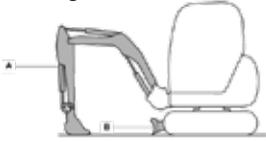
All controls are now active and the machine is now ready to use.



Shut Down Sequence

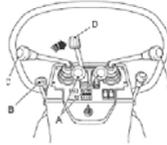
1 Park Machine Up

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



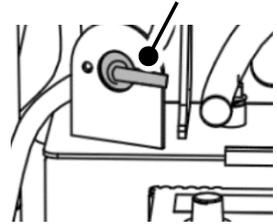
2 Leave & Secure

Switch off all switches. Move the lever D to the locked position. Leave machine using the handrails and footholds. Make sure the engine cover is locked.



3 Isolate Machine

Turn isolator key anti-clockwise and remove key.

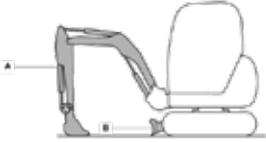


- A Handle
- B LH armrest

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.



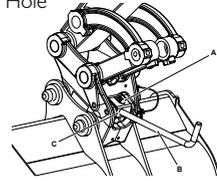
2 Disconnect Attachment

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

3 Insert tommy bar

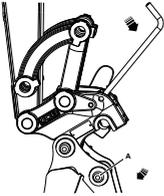
Insert the tommy bar into the hole of the latch hook.

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



4 Release Attachment

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

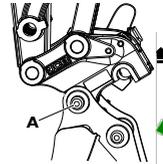


5 Restart Machine

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

6 Remove Attachment

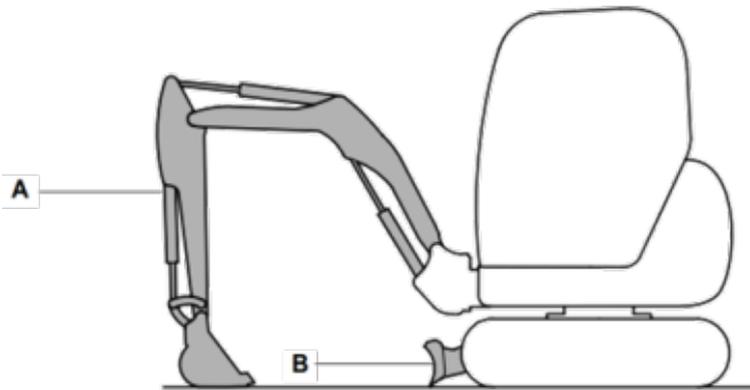
Slowly roll the quickhitch in the direction of the arrow whilst raising the dipper to release the front pivot (A).



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 15



- 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

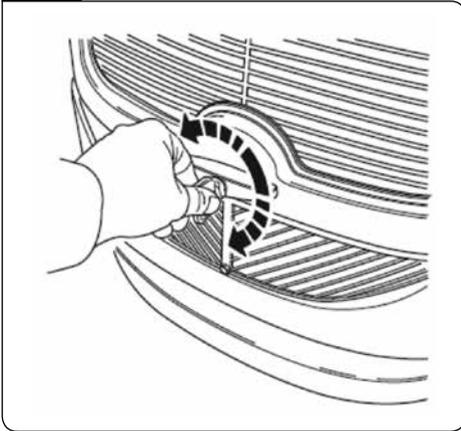
Service & Maintenance

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 and general machine	Visual check
Check engine for leaks and oil level	Visual check
Check fuel system for leaks and contamination	Visual check
Drain water from water separator on fuel filter	Clean
Check engine coolant for leaks, condition and level	Visual check
Check and clean radiator	Clean
Check hydraulic oil level	Visual check
Check operation of all services i.e. excavator, dozer etc.	Operate
Check operation of electrical equipment i.e. warning lights, beacon	Operate
Check operation of the hourmeter	Operate
Check track and running gear operation	Operate
Grease pivot pin	Lubricate

Weekly Checks (50h)	Action
Check and adjust air cleaner hose security	Visual check
Check and adjust the fan belt tension/condition	Visual check
Grease slew ring bearing	Lubricate
Grease undercarriage extension rams and door/window hinges	Lubricate
Check electrical wiring for chaffing/routing	Visual check
Check track plate condition and bolt torque	Visual check
Check track tension	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
Check and clean the battery terminals	Clean

Engine Cover

Fig 16



Please note; if the operator's seat is positioned too far forward it can foul the control levers when the engine cover is fully raised.

Always stop the engine and operate the controls to relieve hydraulic pressure before raising the engine cover.

Always adjust and latch the seat fully to the rear before raising the engine cover. Make sure that you return the seat to your correct operating position before operating the machine.

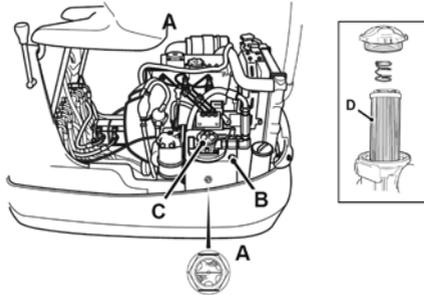
The engine cover allows access to all key components on the Micro machines.

Service / Maintenance Points

Engine Compartment

Fig 17

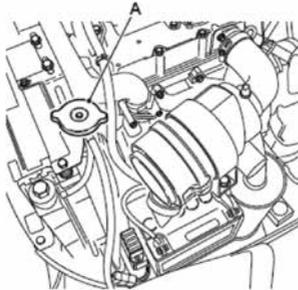
- A** Hydraulic oil level indicator
- B** Oil Dipstick
- C** Hydraulic filler cap
- D** Hydraulic filter



Cooling System

Fig 18

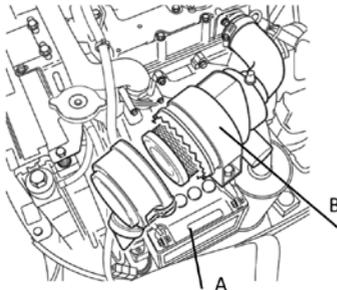
- A** Radiator cap



Air Filter & Battery

Fig 19

- A** Battery
- B** Air filter



Fluids & Lubricants

Item	Capacity	Fluid/lubricant	JCB Part Number	Container Size
Fuel Tank	14.6L	Diesel oil	–	–
Engine Oil	4.9L	JCB Cold Climate Engine Oil EP 5W40 (-20°C to +50°C, -4°F to 122°F)	4001/1505	20L
		-20°C (-4°F) to 50°C (122°F): JCB Cold Climate Engine Oil EP 5W40	4001/2705	20L
Engine Coolant	4.5L	JCB Antifreeze HP / Coolant / Water	4006/1120	20L
Track Gearbox (each)	0.3L	JCB Engine Oil HP SAE 30 (Not Multigrade)	4001/0305	20L
Track Idler Wheels	Sealed	–	–	–
Track Rollers (bottom)	Sealed	–	–	–
Hydraulic System (bottom)	21L	See Below	–	–
Hydraulic Tank	16L	JCB Hydraulic Fluid HP32 (Up to 30°C, 86°F)	4002/1025	20L
		JCB Hydraulic Fluid HP46 (Over 30°C, 86°F)	4002/0805	20L
Slew Ring Bearing	–	JCB HP Grease	4003/2017	400g
Slew Ring Gear Teeth	–	JCB Special Slew Pinion Grease	4003/1619	400g
All Other Grease	–	JCB MPL-EP Grease	4003/1501	400g

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	12	8010	None
Bucket GP 150mm	12 – 30	8008 – 80310	None
Bucket GP 230mm	17 – 29	8008 – 8010	None
Bucket GP 300mm	19 – 25	8008 – 8010	None
Bucket GP 400mm	23 – 30	8008 – 8010	None
Bucket GP 450mm	32	8010	None
Bucket GP 600mm	38	8010	None
Grading / Ditching Bucket 700mm	32	8008	None
Grading / Ditching Bucket 750mm	40	8010	None
Earth Drill – 1500Nm	61	8008 – 8010	1 x hi-flow aux service
Breaker – HM80	85	8010	1 x single acting aux service
Breaker – HM100	103	8010	1 x single acting aux service
Breaker – HM100Q	115	8010	1 x single acting aux service

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

Troubleshooting/FAQs

Issue / FAQ	Resolution/Answer
How do I release pressure from my Auxiliary system?	OM – page 113 – Release Hyd Pressure
Can you dig to dozer?	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.



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