OPERATOR'S MANUAL



135, 150T, 155, 175, 190, 190T, 205, 205T

EN - 9821/6150
ISSUE 4 - 11/2015

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 4. 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:
135	02201002	02206002
150T	02201002	02206002
155	02201002	02206002
175	02201002	02206002
190	02201002	02206002
190T	02201002	02206002
205	02201002	02206002
205T	02201002	02206002

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.

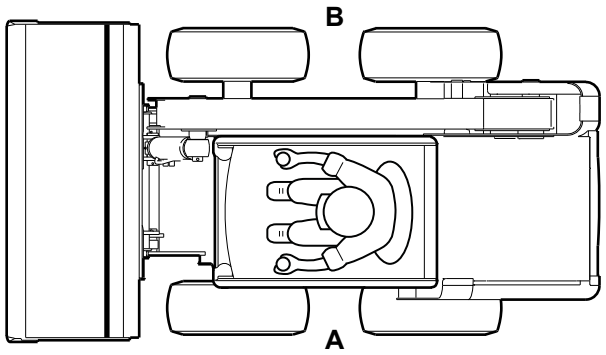
The manufacturer's policy is one of continuous improvement. The right to change the specification of the product without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the product and the descriptions contained in this manual.

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.

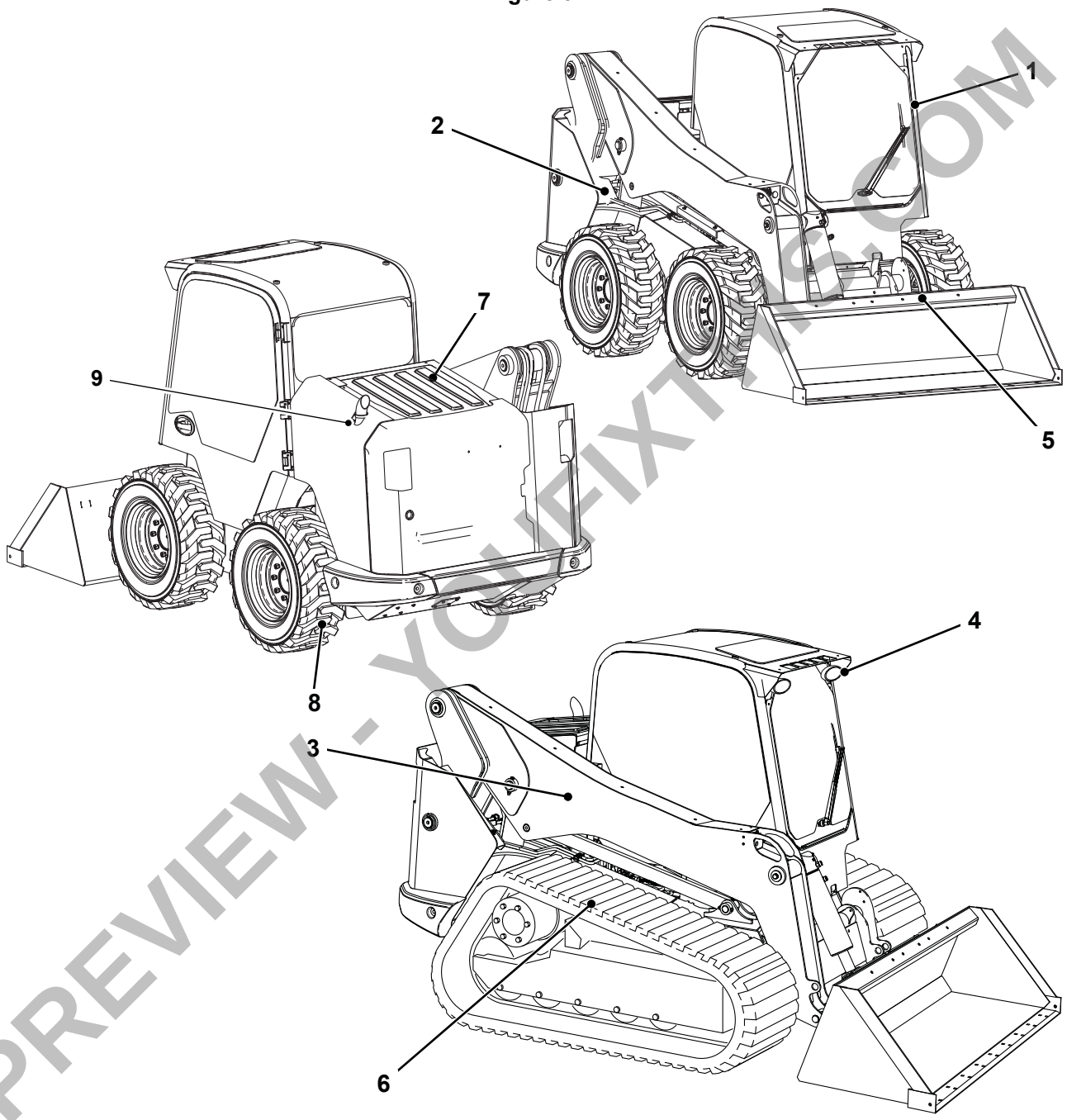


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Main Component Locations

The illustration shows a typical machine model. Your machine may look different from the one shown.

Figure 5.

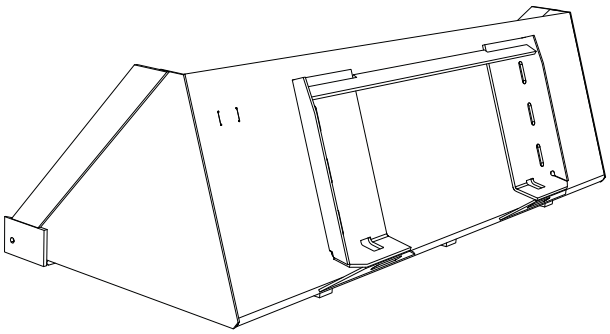


1	ROPS/FOPS cab	**2**	Fuel tank filler point
3	Lift arm/boom	**4**	Front working lights
5	Quickhitch	**6**	Rubber tracks
7	Engine top cover	**8**	Wheels/tyres
9	Exhaust		

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Figure 148.



Before selecting an attachment for use, assess the application and select the appropriate attachment. The density of any materials being handled will affect the selection of the appropriate attachment.

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

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

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

Hydraulic attachments are only compatible with auxiliary couplers positioned on the right hand side of the lift arm, and not with the left hand auxiliary coupler option.

* = For use on this machine model.

Table 5.

Model	Part No.	Item	135	155	175	190	205	150T	190T	205T
AUGERS										
PASF	332/L3978	Planetary Drive Auger - Standard Flow	*	*	*	*	*	*	*	*
PAHF	332/L3979	Planetary Drive Auger - HIGH FLOW								
AUGER EXTENSIONS										
	980/L7271	Hex Drive Extension - 12"	*	*	*	*	*	*	*	*
	980/L7272	Hex Drive Extension - 18"	*	*	*	*	*	*	*	*
	980/L7273	Hex Drive Extension - 24"	*	*	*	*	*	*	*	*
AUGER BITS - STANDARD DUTY										
	980/A2019	6" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2021	9" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2023	12" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2025	15" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2027	18" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2028	24" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2029	30" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*
	980/A2030	36" x 4' Standard Auger 2" Hex	*	*	*	*	*	*	*	*

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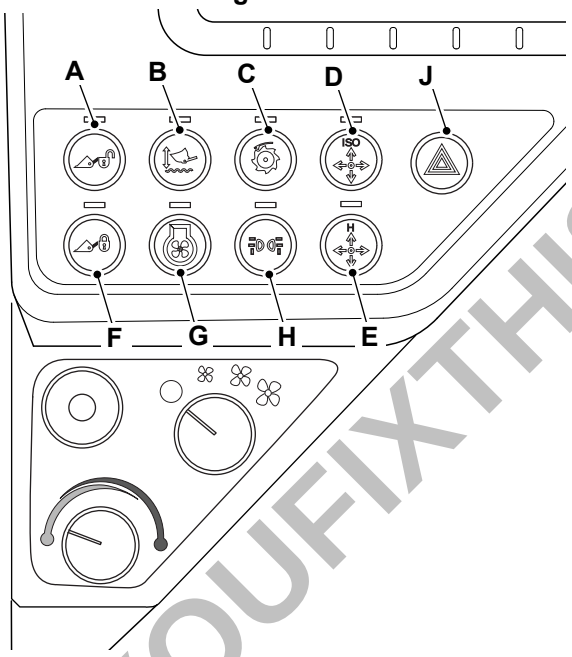
Instruments

General

Left Hand Switch Panel

When a function is installed and enabled its switch is back lit (dark when not fitted or enabled). The LED (Light Emitting Diode) above each switch is illuminated solid when the function is activated/selected.

Figure 55.



A Powered Quickhitch unlock (option)
B SRS (Smooth Ride System)
C High flow auxiliary (option)
D ISO (International Organization for Standardization) control pattern
E H control pattern (option)
F Powered Quickhitch lock (option)
G Reversing fan (option)
H Sidelights (option)
J Hazard warning lights (option)

Powered Quickhitch Unlock (Option)

Figure 56.



Press and hold to unlock the Quickhitch.Refer to: Attachments > Quickhitch (Page 129).

Smooth Ride System (SRS) (Option)

Figure 57.



When the lift arm is fully lowered press to activate SRS.

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Operating Safety

General

Training

Make sure that you have had adequate training and that you are confident in your ability to operate the machine safely before you use it. Practice using the machine and its attachments until you are completely familiar with the controls and what they do. With a careful, well trained and experienced operator, your machine is a safe and efficient machine. With an inexperienced or careless operator, it can be dangerous. Do not put your life, or the lives of others, at risk by using the machine irresponsibly. Before you start to work, tell your work mates what you will be doing and where you will be working. On a busy site, use a signalman.

Before doing any job not covered in this manual, find out the correct procedure. Your local JCB distributor will be glad to advise you.

Fuel

Fuel is flammable, keep naked flames away from the fuel system. Stop the engine immediately if a fuel leak is suspected. Do not smoke while refuelling or working on the fuel system. Do not refuel with the engine running. Completely wipe off any spilt fuel which could cause a fire. There could be a fire and injury if you do not follow these precautions.

Machine Condition

A defective machine can injure you or others. Do not operate a machine which is defective or has missing parts. Make sure the maintenance procedures in this manual are completed before using the machine.

Machine Limits

Operating the machine beyond its design limits can damage the machine, it can also be dangerous. Do not operate the machine outside its limits. Do not try to upgrade the machine performance with unapproved modifications.

Engine/Steering Failure

If the engine or steering fails, stop the machine as quickly as possible. Do not operate the machine until the fault has been corrected.

Exhaust Gases

Machine exhaust gases can harm and possibly kill you or bystanders if they are inhaled. Do not operate the machine in closed spaces without making sure there is good ventilation. If possible, install an exhaust extension. If you begin to feel drowsy, stop the machine at once and get into fresh air.

Worksites

Worksites can be hazardous. Examine the site before working on it. You could be killed or injured if the ground gives way under your machine or if piled material collapses onto it. Check for potholes and hidden debris, logs, ironwork etc. Any of these could cause you to lose control of your machine. Check for utilities such as electric cables (overhead and underground), gas and water pipes etc. Mark the positions of the underground cables and pipes. Make sure that you have enough clearance beneath overhead cables and structures.

Communications

Bad communications can cause accidents. Keep people around you informed of what you will be doing. If you will be working with other people, make sure any hand signals that may be used are understood by everybody. Worksites can be noisy, do not rely on spoken commands.

Parking

An incorrectly parked machine can move without an operator. Follow the instructions in the Operator's Manual to park the machine correctly.

Banks and Trenches

Banked material and trenches can collapse. Do not work or drive too close to banks and trenches where there is danger of collapse.

Safety Barriers

Unguarded machines in public places can be dangerous. In public places, or where your visibility is reduced, place barriers around the work area to keep people away.

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Fluids, Lubricants and Capacities

General

For: 135, 150T, 155, 175 ..... Page 235
For: 190, 190T, 205, 205T ..... Page 235

(For: 135, 150T, 155, 175)

JCB recommend that you use the JCB lubricants shown as they have been verified by JCB for use on JCB machines. However, you could use other lubricants that are equivalent to the JCB standards and quality or offer the same machine component protection.

Table 46. Machines with JCB Diesel Engine by Kohler

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size[1]	Specification
Fuel Tank	98L (radial lift), 92L (vertical lift)	Diesel Oil			
Engine (Oil)	Min5.5L Max7.4L	JCB Engine Oil EP 5W40	4001/2705	20L	API CJ4, ACEA E6-E9, Low SAPS
Engine (Coolant)	10L	JCB Antifreeze HP	4006/1120	20L	ASTM D3306, ASTM D4985, ASTM D6210, SAE J1034, BS6580 (1992), AFNOR NF R15-601
Hydraulics System	System:43.5L Tank:26L	JCB Extreme Performance Hydraulic Fluid 46 (climates between -20°C (-4°F) and 46°C (115°F)	4002/2900	200L	
		JCB Bio Hydraulic Fluid 46 (if required)	4002/2603	200L	
Chain Cases	19L	JCB Engine Oil EP 15W40	4001/1805	20L	
Grease Points		JCB HP Grease or JCB Special MPL EP Grease	4003/2017	24 x 0.4kg cartridges	

(1) For information about the different container sizes that are available (and their part numbers), contact your JCB dealer.

(For: 190, 190T, 205, 205T)

JCB recommend that you use the JCB lubricants shown as they have been verified by JCB for use on JCB machines. However, you could use other lubricants that are equivalent to the JCB standards and quality or offer the same machine component protection.

Table 47. Machines with Kohler Engines

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size[1]	Specification
Fuel Tank	92L	Diesel Oil			
Engine (Oil)	Min7.8L Max10.2L	JCB Engine Oil EP 5W40	4001/2705	20L	API CJ4, ACEA E6-E9, Low SAPS
Engine (Coolant)	10L	JCB Antifreeze HP	4006/1120	20L	ASTM D3306, ASTM D4985, ASTM D6210, SAE J1034, BS6580 (1992), AFNOR NF R15-601

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Maintenance Schedules

General

⚠ **WARNING** Maintenance must be done only by suitably qualified and competent persons.

Before doing any maintenance make sure the machine is safe, it must be correctly parked on solid, level ground.

To prevent anyone starting the engine, remove the ignition key. Disconnect the battery when you are not using electrical power. If you do not take these precautions you could be killed or injured.

A badly maintained machine is a danger to the operator and the people working around the operator. Make sure that the regular maintenance and lubrication tasks listed in the service schedules are done to keep the machine in a safe and efficient working condition.

Apart from the daily tasks, the schedules are based on the machine running hours. Keep a regular check on the hourmeter readings to correctly gauge the service intervals. When there is no hourmeter installed, use the calendar equivalents to determine the service intervals.

Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are corrected immediately.

More frequent checks of engine components than the engine manufacturer recommends do not invalidate emissions warranty.

How to Use the Maintenance Schedules

The schedules show the service tasks which must be done and their intervals.

The services must be done at either the hourly interval or the calendar equivalent, whichever occurs first.

The intervals given in the schedules must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the intervals.

Table 8.

O	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
□	We recommend that a Service Engineer completes the service task. Details of how to complete the service task are given in the Service Manual.

Maintenance Intervals

Table 9.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
500	Six months
1000	Yearly
2000	Two years

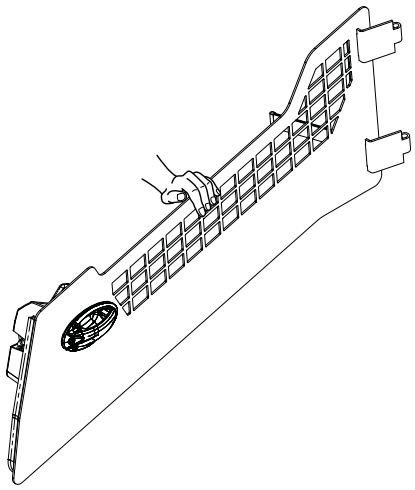
Pre-start Cold Checks, Service Points and Fluid Levels

Table 10.

Component	Task	10	50	500	1,000	1,500	2,000
Attachments/Optional Equipment							
As required	Lubricate	O	O	□	□	□	□
As required	Check (condition)	O	O	□	□	□	□
Body and Framework							

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Figure 23.



Close the canopy door by pulling on the top of it. Refer to Figure 23.

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Torque Values

General

Operator Protective Structure

Refer to: Maintenance > Operator Station (Page 186).

Table 50.

Mounting Nuts	Torque
A, B	205N·m

Refer to: Operation > Lifting the Machine > General (Page 103).

Table 51.

Lifting Eyes	Torque
A	190N·m

Wheels

Refer to: Maintenance > Wheels (Page 202).

Table 52.

Front	Rear
244N·m	244N·m

Tracks

Refer to: Maintenance > Tracks (Page 206).

Table 53.

	Torque
Access plate bolts	140N·m
Track sprocket bolts	368N·m

Engine

Table 54.

	Torque
Oil filter cartridge cap Refer to: Maintenance > Engine > Oil (Page 188).	25N·m
Fuel filter cartridge Refer to: Maintenance > Fuel System (Page 196).	17N·m
Engine fuel filter sensor housing	5N·m
Engine oil drain plug Refer to: Maintenance > Engine > Oil (Page 188).	40N·m
Alternator belt adjustment bolt	40N·m
Compressor belt adjustment bolt	47N·m

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