OPERATOR'S MANUAL



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

EN - 9811/9500
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THIS MANUAL SHOULD ALWAYS STAY WITH THE MACHINE

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Contents **Page No.**

Acronyms Glossary vii

Introduction
About this Manual
Model and Serial Number 1
Using the Manual 1
Left-Hand Side, Right-Hand Side 1
Cross References 2
Location of Manual 2
Safety
Safety - Yours and Others 3
Safety Warnings 3
General Safety 4
Clothing and Personal Protective Equipment (PPE) 5

About the Product
Introduction
General 7
Name and Address of the Manufacturer 7
Product Compliance 7
Description
General 8
Intended Use 8
Log Moving/Object Handling 8
Optional Equipment and Attachments 8
Danger Zone 8
Main Component Locations 9
Product and Component Identification
Machine 10
Engine 10
Operator Protective Structure 11
Safety Labels
General 13
Safety Label Identification 13
Operator Station
Component Locations 16
Console Switches
Window Wipers 17
Interior Switches
Ignition Switch 18
Cab Interior Light 19

Operation
Introduction
General 21
Operating Safety
General 22
Worksite Safety 24
Risk Assessment 25
Walk-Around Inspection
General 27

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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	01755000	01764999
150T	01755000	01764999
155	01755000	01764999
175	01755000	01764999
190	01755000	01764999
190T	01755000	01764999
205	02201002	02206002
205T	01755000	01764999

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.

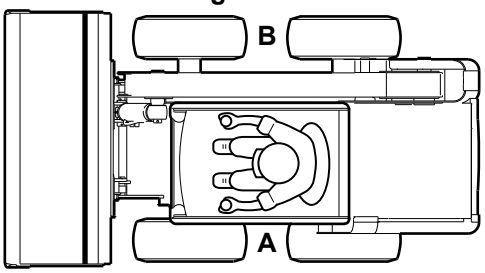
The manufacturer's policy is one of continuous improvement. The right to change the specification of the product without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the product and the descriptions contained in this manual.

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

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Check (Condition)

1. Make sure that all of the guards and protective devices are in position, secured by their locking devices and free from damage.
2. Inspect all of the steelwork for damage. Include the following:
   2.1. Examine all of the lifting point welds.
   2.2. Examine all of the pivot point welds.
   2.3. Examine the condition of all the pivot pins.
   2.4. Check that the pivot pins are correctly in position and secured by their locking devices.
3. Check the steps and handrails are undamaged and correctly attached.
4. Check for broken, cracked or crazed window glass and mirrors. Replace the damaged items.
5. Check that the lamp lenses are undamaged.
6. Check that all of the attachment teeth are undamaged and correctly attached.
7. Check that all of the safety and instructional labels are undamaged and in position. Install new labels where necessary.
8. Note any damaged paintwork for future repair.
9. Inspect the machine for broken or loose fasteners.

Pivot Pins

Lubricate

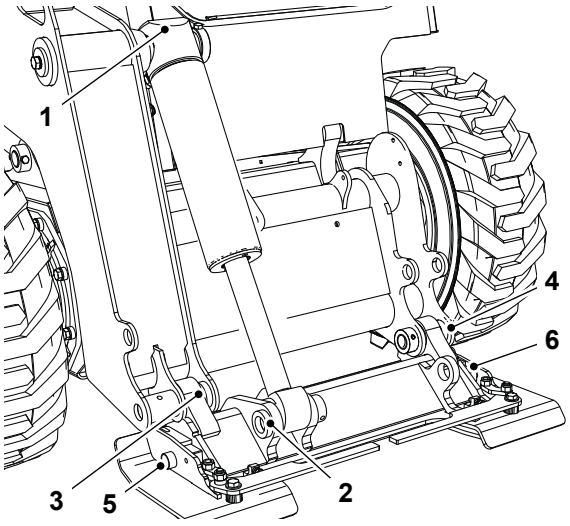
In the following illustrations, the grease points are numbered. Count off the grease points as you grease each one.

Quickhitch Pivot Pins

Lower the lift arm as far as it will go. Tilt the Quickhitch fully forward to facilitate access to the grease points. Switch off the engine and ensure it cannot be started while you are doing this job.

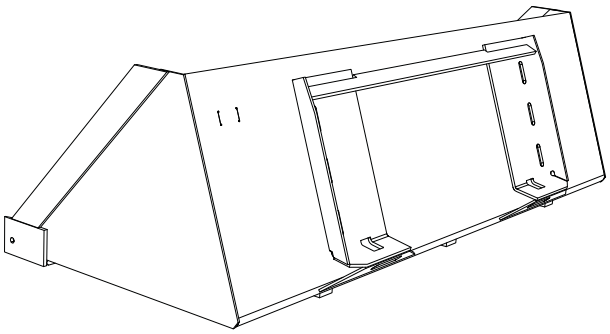
Total of 6 grease points.

Figure 203.



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Figure 147.



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 7.

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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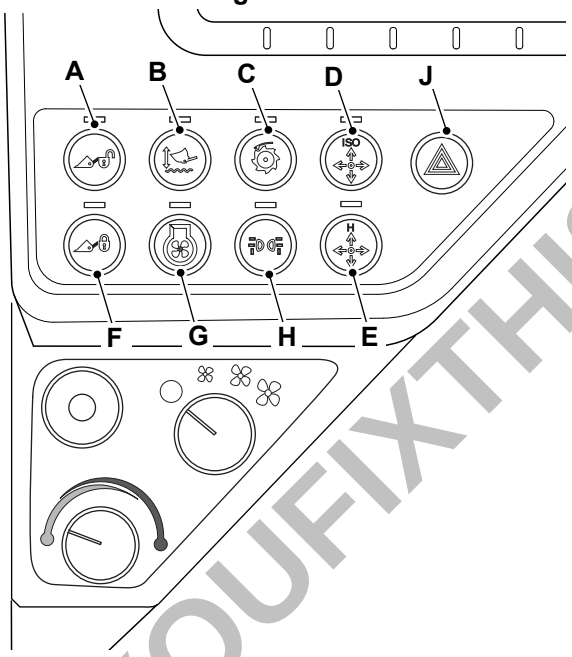
Instruments

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 54.



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 55.



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

Smooth Ride System (SRS) (Option)

Figure 56.



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

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Fluids, Lubricants and Capacities

General

For: 135, 150T, 155 - Perkins 400 Series ..... Page 237
For: 175, 190, 190T, 205, 205T - Perkins 400 Series ..... Page 237

(For: 135, 150T, 155 - Perkins 400 Series)

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 43. Machines with JCB Diesel Engine by Perkins

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size(1)	Specification
Fuel Tank	98L	Diesel Oil			
Engine (Oil)	Min8.9L	JCB Engine Oil EP 15W40	4001/1805	20L	API CH4/SJ. ACEA E5,E3,B3,A3
	Max10.6L	JCB Engine Oil EP 5W40 (climates below -12°C (10.4°F)	4001/2705		API CH4/CG-4/CF-4/ CF/SJ. ACEA E2,B3,A3
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 Perfor-mance 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: 175, 190, 190T, 205, 205T - Perkins 400 Series)

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 44. Machines with JCB Diesel Engine by Perkins

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size(1)	Specification
Fuel Tank	92L	Diesel Oil			
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	Max10.6L	JCB Engine Oil EP 5W40 (climates below -12°C (10.4°F)	4001/2705		API CH4/CG-4/CF-4/ CF/SJ. ACEA E2,B3,A3

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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 10.

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 11.

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 12.

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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Torque Values

General

Operator Protective Structure

Refer to: Maintenance > Operator Station (Page 187).

Table 51.

Mounting Nuts	Torque
A, B	205N·m

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

Table 52.

Lifting Eyes	Torque
A	190N·m

Wheels

Refer to: Maintenance > Wheels (Page 204).

Table 53.

Front	Rear
244N·m	244N·m

Tracks

Refer to: Maintenance > Tracks (Page 208).

Table 54.

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

Engine

Table 55.

	Torque
Oil filter cartridge cap Refer to: Maintenance > Engine > Oil (Page 189).	25N·m
Fuel filter cartridge Refer to: Maintenance > Fuel System (Page 197).	17N·m
Engine fuel filter sensor housing	5N·m
Engine oil drain plug Refer to: Maintenance > Engine > Oil (Page 189).	40N·m
Alternator belt adjustment bolt	40N·m
Compressor belt adjustment bolt	47N·m

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Entering and Leaving the Operator Station

General

⚠ **CAUTION** Entering or leaving the operator station must only be made where steps and handrails are provided. Always face the machine when entering and leaving. Make sure the step(s), handrails and your boot soles are clean and dry. Do not jump from the machine. Do not use the machine controls as handholds, use the handrails.

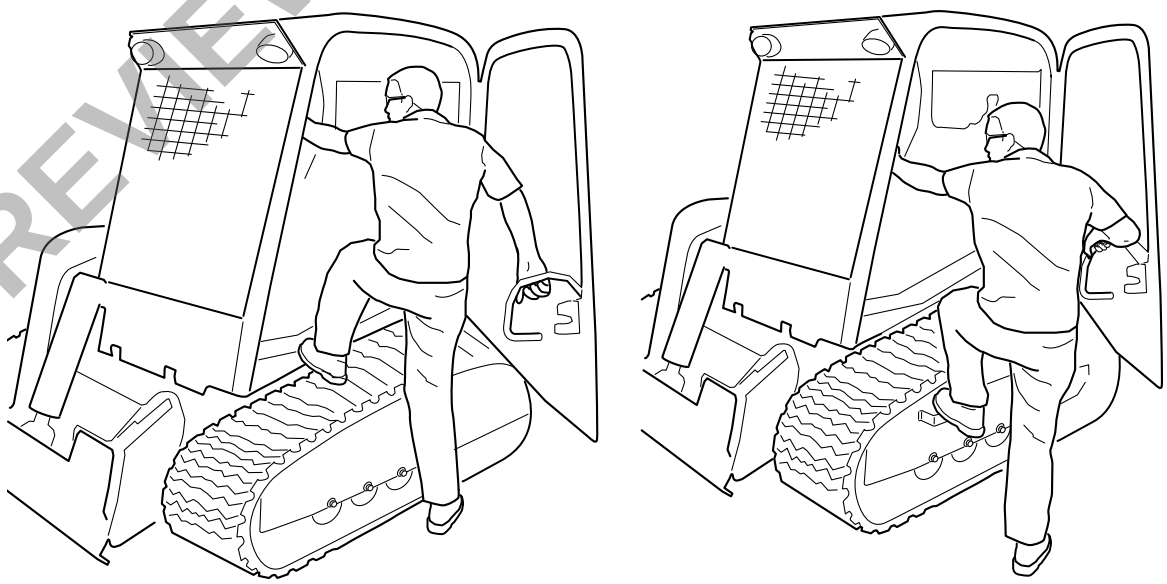
Make sure the machine is stopped and correctly parked before entering or leaving the cab. Refer to: Operation > Stopping and Parking (Page 48).

When you get 'on' and 'off' the machine always maintain a three point contact with the handrails and step. Do not use the machine controls as handholds.

Figure 14. Wheeled Machine - Cab



Figure 15. Tracked Machine - Cab



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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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