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Safety Notices

Important Information

T1-042

The Operator Manual

⚠ WARNING

You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator Manual. You must understand and follow the instructions in the Operator Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

INT-1-4-2

Do not operate the machine without an Operator Manual, or if there is anything on the machine you do not understand.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

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Operation

Introduction

T2-006_2

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.

Before you start the machine, you must know how the machine operates. Use your manual to identify each control lever, switch, gauge, button and pedal. Do not guess. If there is anything you do not understand, ask your JCB distributor.

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.

Finally, 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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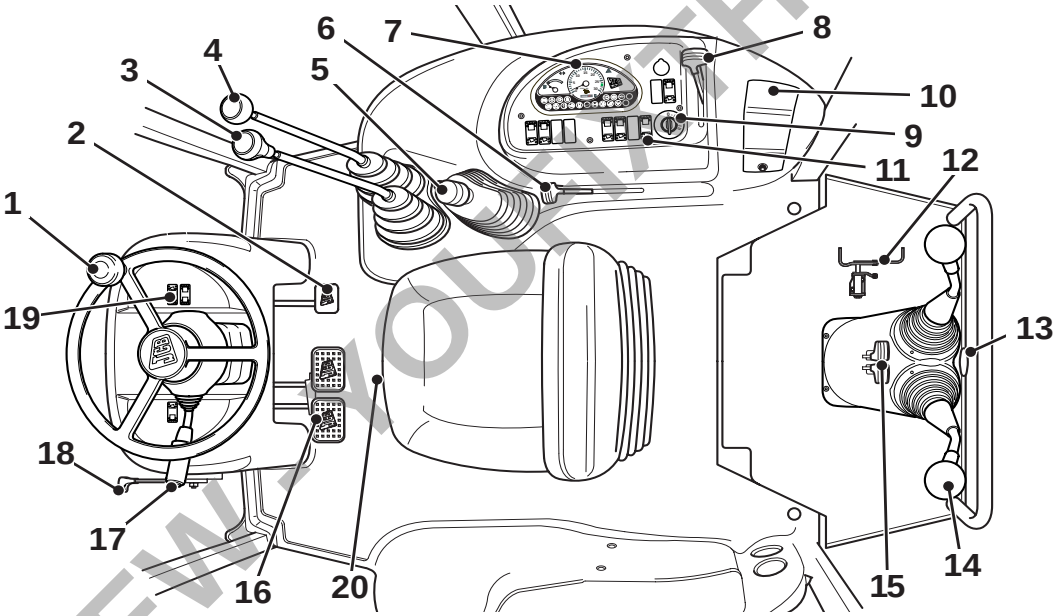


Fig 19.

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Warning Lights with Audible Alarm

Note: *If any red warning lights come on while the engine is running, stop the engine as soon as it is safe to do so. Do not use the machine until the fault is put right.*

1 No charge.

Lights if the battery charging circuit fails while the engine is running. The light should go out a few seconds after the engine is started.

2 Water or oil temperature high.

Lights if the engine coolant or oil overheats.

3 Engine oil pressure low.

Operates if the engine oil pressure drops too far. The light should go out when the engine is started.

4 Air filter blocked.

When illuminated it could indicate that the engine air filter is blocked. If the air filter warning light comes ON, stop the machine and switch OFF the engine. After a short pause start the engine. If the warning light has extinguished carry on operating the machine in the normal manner.

If the warning light is still illuminated after the engine has been started check that the engine air filter elements are not blocked.

5 Hydraulic oil pressure low.

Lights if the transmission oil pressure drops too far. The light should go out when the engine is started.

6 Hydraulic oil temperature high.

Lights if the transmission oil temperature rises too far.

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6 Remove locking clip **E** and disconnect the draft links.

7 Disconnect the PTO. ⇨ *Power Take-Off (PTO) (183)*.

8 Fit the pins to equipment and secure in position for safe keeping.

9 To prevent accidental operation of the hitch or if the backhoe excavator is going to be fitted, disconnect the two quick release hydraulic hoses **E** and **F**. Stow the hoses as shown at **G**.

10 If the backhoe excavator assembly is going to be fitted, remove the sway, draft and lift links and pins. Store in a safe place to prevent them from being lost.

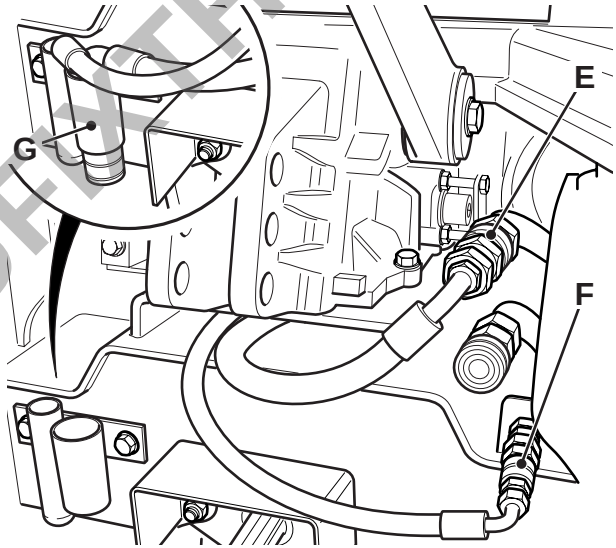


Fig 92.

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Service Schedules

Introduction

T3-036_3

⚠ WARNING

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

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

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

8-3-1-1

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

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check on the hourmeter readings to correctly gauge service intervals. When there is no hourmeter fitted, use the calendar equivalents to determine the service intervals. Refer to ***Calendar Equivalents***. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

How to Use the Service Schedules

T3-012_3

In the example shown, **A** shows all service requirements to be carried out every 10 hours and **B** shows the requirements to be carried out every 500 hours.

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Important: *Services should be carried out at either the hourly interval or calendar interval, whichever occurs first. Refer to* ***Calendar Equivalents****.*

Pre-start Cold Checks, Service Points and Fluid Levels

	Operation	A 10	50	100[1]	B 500	1000	2000	8000
ENGINE								
Coolant Quality and Level	- Check	☐	☐	☐	☐	☐		
Cooling System	- Drain and Refill						☐	☐
Oil level	- Check	☐	☐					
Oil and Filter[2][3][4]	- Change				☐	☐	☐	☐
Air Cleaner Dust Valve[5]	- Change				☐	☐	☐	☐
Air Cleaner Outer Element[5]	- Change					☐	☐	☐
Air Cleaner Inner Element	- Change						☐	☐
Pre-Cleaner (if fitted)	- Check			☐				
Water Seperator	- Check for contamination and Drain		☐	☐	☐	☐	☐	☐
Engine Fuel Filter	- Change					☐	☐	☐
Front End Accessory Drive (FEAD) Belt Condition	- Check				☐	☐	☐	☐
Front End Accessory Drive (FEAD) Belt	- Change							☐
Engine Mounting Bolts for Tightness	- Check			☐	☐	☐	☐	☐
All Hoses - Condition	- Check			☐	☐	☐	☐	☐
Radiator[5]	- Clean				☐	☐	☐	☐
Crankcase Ventilation Filter	- Change					☐	☐	☐

795390-1

Calendar Equivalents

T3-051

Every 10 Hours = Daily

Every 50 Hours = Weekly

Every 500 Hours = Six Months

Every 1000 Hours = Yearly

Every 2000 Hours = 2 Years

Every 6000 Hours = 6 Years

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Fluids, Lubricants and Capacities

Table 1.

ITEM	CAPACITY		FLUID/LUBRICANT	JCB Part No	Container Size (1)
	US Gal	Litres			
Fuel Tank	15.8	60	Diesel Oil	-	-
Engine Oil (2)	2.5	9.5	**JCB Extreme Performance 15W40** (-10°C to +50°C (14°F to 122°F)	4001/1805	20 litres
			JCB Cold Climate Performance 5W40 (-20°C to +50°C (-4°F to 122°F)	4001/2705	20 litres
Engine (Coolant)	3.14	11.9	**JCB Antifreeze HP/Coolant & Water** ⇨ *Coolant Mixtures (238)*.	4006/1120	20 litres
Front Axle			**JCB Gear Oil HP90**	4000/0305	20 litres
Housing	1.40	5.3			
Hubs (x2)	0.15	0.6			

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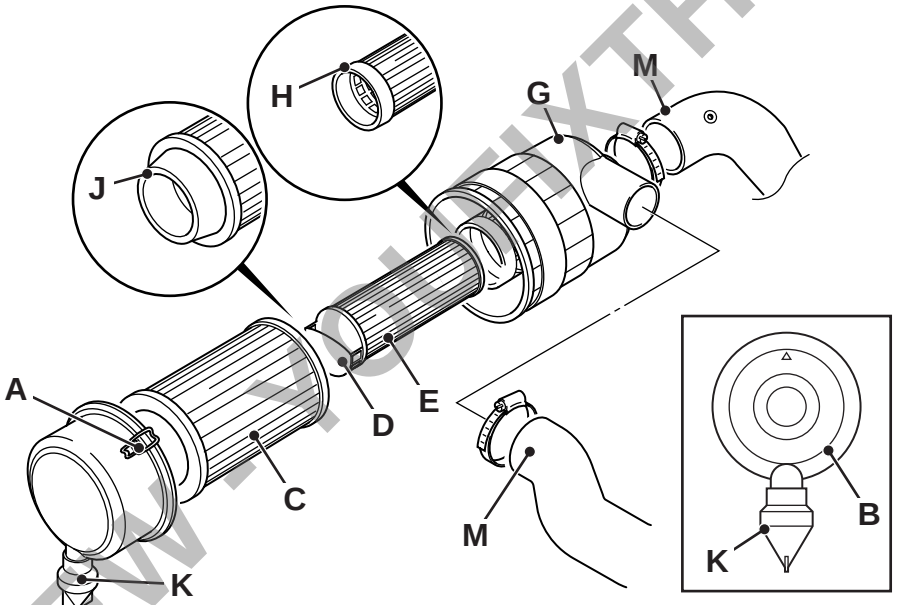


Fig 136.

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Table 6.

Front	Rear
Nm (lbf ft)	**Nm (lbf ft)**
680 (500)	680 (500)

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Optional Attachments

Introduction

T4-002

⚠ WARNING

Use only the JCB approved attachments that are specified for your machine. Operating with non-specified attachments can overload the machine, causing possible damage and machine instability which could result in injury to yourself or others.

The use of non-approved attachments could invalidate your warranty.

2-4-5-2_1

A wide range of optional attachments is available to increase the versatility of your machine. Only JCB approved attachments are recommended for use with your machine. Consult your JCB Distributor for the full list of approved attachments available.

JCB attachments are designed and manufactured specifically to suit the machine's hydraulic system, mounting arrangements and safe load requirements. Attachments which are not designed for use with this machine may cause damage and create safety hazards for which JCB cannot be held responsible. In addition the machine's warranty, "CE" and any other legislative compliance may be affected by the use of non JCB approved attachments.

2-4-1-13_2

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Seat Controls

Introduction

T2-007_3

⚠ WARNING

Seat

Position the seat so that you can comfortably reach the machine controls. Do not adjust the seat while the machine is moving. You could have an accident if you operate the machine with the seat in the wrong position.

13-1-1-9_1

The operator's seat can be adjusted for your comfort. A correctly adjusted seat will reduce operator fatigue. Position the seat so that you can comfortably reach the machine controls. For driving the machine, adjust the seat so that you can depress the pedals fully with your back against the seat back.

Standard Seat

The Operator's Manual is located in the pouch **A** at the rear of the seat. ⇒ *Fig 15. (57)*.

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Before Starting the Engine

P5-2033_4

Note: *Read* ***Operating Environment*** *in Operation section if you will be using the machine in very cold or very hot climates.*

Note: *If the fuel tank has been empty or if any part of the fuel system has been drained or disconnected, the fuel system must be primed before attempting to start the engine. See* ***Bleeding the System****, Maintenance section.*

1 The park brake should have been engaged when the machine was last parked. But if it is not already engaged, engage it now.

⚠ DANGER

Before lowering the attachments to the ground, make sure that the machine and the area around it are clear of other people. Anyone on or close to the machine could fall and be crushed by the attachments, or get caught in the linkages.

2-2-3-4

2 Make sure that the attachment is on the ground.

⚠ CAUTION

On machines fitted with hose burst protection valves the attachments cannot be lowered with the engine stopped. On these machines start the engine and lower the attachments before doing the walk round inspection.

2-2-3-5

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T033400-1

Fig 97.

Note: *Maximum Permissible Towing Force 73kN.*

Towing Procedure

Note: *All scenarios cannot be listed, due to the vastly different situations that could occur, dependent on the problem and the reason for towing. It is advised you contact your JCB dealer for help and advice on the correct and safest procedure for machine preparation before attempting to move the machine.*

1 Engage the park brake.

2 All attachments must be raised into their transport positions and secured, move the appropriate control lever to the raise position when performing this procedure. Ensure the control lever is returned to its neutral position after lifting.

3 Set the Forward/Reverse lever to neutral.

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Access Panels

Engine Cover

Opening and Closing

1 Make the machine safe with the loader arm lowered. Refer to ***Prepare the Machine for Maintenance***.

⚠ WARNING

The engine has exposed rotating parts. Switch OFF the engine before working in the engine compartment. Do not use the machine with the engine cover open.

5-2-6-5

⚠ WARNING

Touching hot surfaces can burn skin. The engine and machine components will be hot after the unit has been running. Allow the engine and components to cool before servicing the unit.

10-1-1-40

2 Lower the backhoe to the ground.

3 Unlock and remove the front grille **A**.

4 To release the engine cover, push the lever **B** to the left and lift the cover until it locks in open position.

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Attachments For Your Machine

Attachments will help increase the productivity of your machine, for more information contact your JCB Distributor.

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

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

Note: *Patch Planer is NOT suitable for use with this machine.*

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