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⚠ WARNING

Study This Handbook Before Starting The Machine

You must understand and follow the instructions in this handbook. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB distributor or employer. **Do not guess**, you or others could be killed or seriously injured.

INT-1-1-1

⚠ CAUTION

Do not fit an attachment to this machine which is not JCB approved. Consult your JCB distributor before fitting any non approved attachment.

8-4-1-6

In this handbook and on the machine there are safety notices. Each notice starts with a signal word. The meanings of the signal words are given below.

⚠ DANGER

Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

⚠ WARNING

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

⚠ CAUTION

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

MACHINE SECURITY

Vandalism and theft of unattended machines is an ever increasing problem and JCB is doing everything possible to help combat this.

JCB PLANTGUARD is a comprehensive package available to help you safeguard your machine. It includes such devices as vandal proof covers, window etching, immobiliser, concealed serial number, battery isolator, Tracker security system and much more.

Remember that the fitting of any one of these security devices will help to minimise not only the damage or loss of your machine but also subsequent lost productivity. It could also result in reduced insurance premiums.

Your JCB Distributor or Dealer will be pleased to provide information on any of these sensible precautions. ACT NOW!

INT-1-2-4

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LOAD MOMENT INDICATOR

Setting the Volume and Brightness

The volume of the audible alarm, and the brightness of the display LEDs can be set by the operator using display button **E**. This allows the volume and brightness to be reduced for night time use. The possible options are:

(a) Full volume and full brightness (default setting)
(b) Reduced volume and full brightness
(c) Full volume and reduced brightness
(d) Reduced volume and reduced brightness

1 Park the machine (unloaded) on level ground with the engine running. Apply the parking brake and place the forward/reverse lever in the neutral position.

2 The green light **D** at the bottom of the display will illuminate to show that the indicator is receiving power.

3 Press and hold the display button **E**.

The display will cycle through the volume and brightness options, pausing for approximately three seconds to demonstrate each option.

4 Release the button during the required demonstration to select the option.

Note: the system will reset to the default setting when the starter key is switched to the off position.

Diagnostic Fault Codes

When the system detects a fault, the audible alarm will sound and various combinations of lights on the display will indicate a fault code for approximately 10 seconds.

The audible alarm and the fault code display cancel after 10 seconds and **ALL** LEDs on the display will flash continuously as long as the fault remains. Press and release display button **E** to show the fault code for a further 10 seconds.

When the fault clears, the display will return to normal.

⚠ WARNING

If the Load Moment Indicator is faulty, contact your JCB distributor. Do not try to repair it yourself.

5-2-4-6

Error Code 1 - Transducer signal fault
Transducer disconnected or wiring damaged.



Error Code 2 - Calibration out of range
System is incorrectly calibrated.



Error Code 3 - Calibration required
System not calibrated.



Error Code 4 - Display unit faulty
The display box has detected an internal error.



Error Code 5 - Low battery voltage
Battery voltage is below 9 Volts.



325590

If any of the above fault codes are displayed, switch the starter key off and on again. Contact your JCB distributor if the fault does not clear.

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STARTING THE ENGINE

1 Read ***Before Starting the Engine*** on the previous page.

2 The parking brake should have been engaged when the machine was last parked. If it is not engaged, engage it now.

3 Put the Forward/Reverse lever in neutral. The engine will not start unless the forward/reverse lever is in neutral.

4 If a battery isolator is fitted the key must be fitted and switched on before attempting to start the engine, *see* ***Battery*** *(MAINTENANCE section).*

5 If the machine is fitted with Immobiliser Option, insert and remove immobiliser key to deactivate the system. *See* ***Immobiliser Option*** *(INTRODUCTION section).*

⚠ WARNING

The ROPS cab is designed to give you protection in an accident. If you do not wear your seat belt you could be thrown about inside the cab, or thrown out of the machine and crushed. You must wear a seat belt when using the machine. Fasten the seat belt before starting the engine.
2-2-1-9

⚠ WARNING

Do not use ether or other starting fluids to assist cold starting. Using these fluids may result in an explosion causing possible injury and/or damage to the engine.
3-2-1-9

6 **If the engine is warm,** depress the accelerator pedal by a quarter of full travel and hold it there. Turn the starter switch to position **III** and hold it there until the engine starts or for a maximum of 30 seconds.

If the engine is cold, turn the starter switch key to the 'heat' position **II** for 20 seconds to pre-heat the engine. Fully depress the accelerator pedal and hold it down. Turn the starter switch to position **III** and hold it there until the engine starts or for a maximum of 30 seconds.

Note: *If the engine has not started after 30 seconds, release the starter key. Wait 90 seconds before attempting another start. This will allow the starter motor to cool down.*

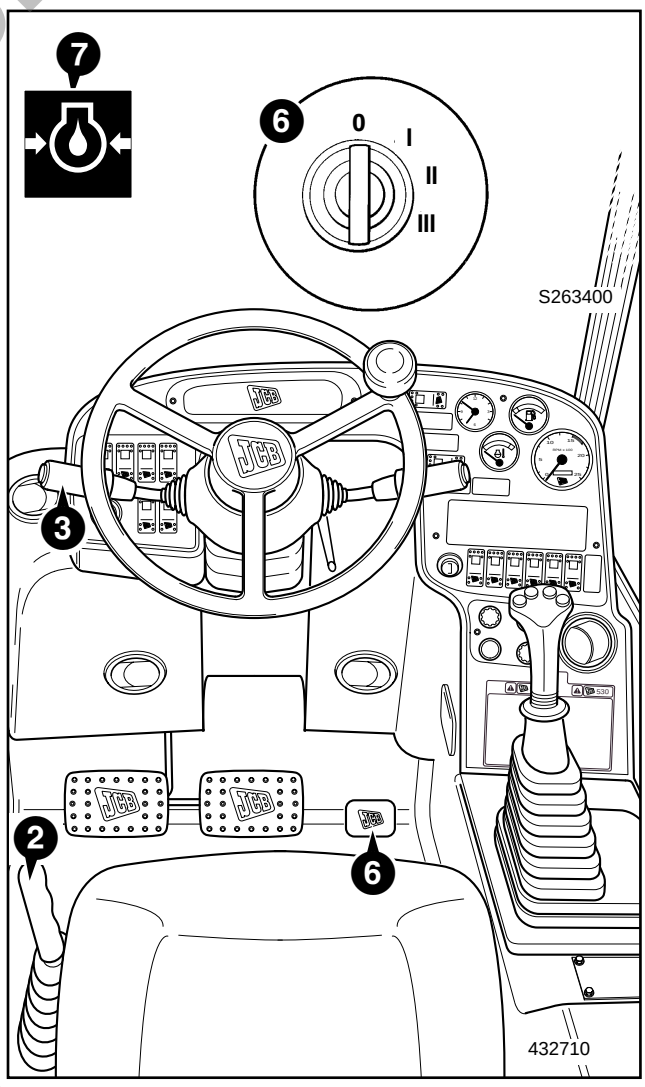
7 Once the engine has started, release the starter key. The switch will return to position **I**. Ease off on the accelerator pedal to reduce engine speed. Check that all the warning lights have gone off. Do not race the engine until the **engine oil pressure low light** has gone out. Check that the audible alarm is silent.

Note*: If any warning lights fail to go off, or come on while the engine is running, stop the engine as soon as it is safe to do so.*

8 Allow the engine to warm up above idle speed and operate the boom a few times to help warm up the hydraulic system.

If the battery is not fully charged and the engine fails to start, *see* ***Jump-Starting the Engine*** *(MAINTENANCE section).*

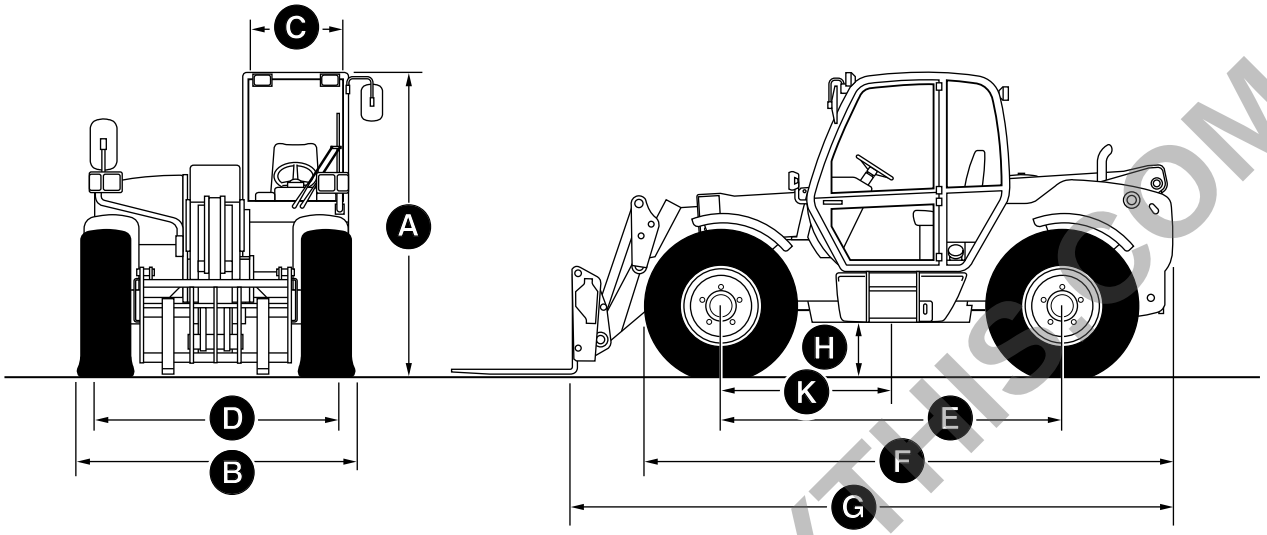
Note*: New engines DO NOT require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores resulting in excessive oil consumption could occur if the engine is gently run-in. Under no circumstances should the engine be allowed to idle for extended periods; (e.g. warming up without load).*



8980-4

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STATIC DIMENSIONS
530-70, 540-70



A264240

	DESCRIPTION	DIMENSION 530-70	DIMENSION 540-70
A	Overall height	2480 mm (8ft 1 in)	2490 mm (8ft 2in)
B	Overall width	2230 mm (7ft 1 in)	2290 mm (7ft 6in)
C	Inside width of cab (between windows)	940 mm (3ft 1in)	940 mm (3ft 1in)
D	Track	1794 mm (5ft 10in)	1870 mm (6ft 2in)
E	Wheelbase	2750 mm (9ft 0in)	2750 mm (9ft 0in)
F	Overall length to front tyres	4380 mm (14ft 4in)	4380 mm (14ft 4in)
G	Overall length to front of carriage	4940 mm (16ft 2in)	4990 mm (16ft 4in)
H	Ground clearance	390 mm (1ft 2in)	400 mm (1ft 4in)
K	Centre of gravity (unladen)	1420 mm (4ft 8in)	1440 mm (4ft 9in)
	Weight (unladen)	6475 kg (14,277 lb)	7400 kg (16,314 lb)

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SERVICE SCHEDULES (continued)

Pre-start Cold Checks Service Points and Fluid Levels	Operation	Daily 10 Hr	Weekly 50 Hr	First 100 Hr	6 Monthly 500 Hr	Yearly 1000 Hr	2 Yearly 2000 Hr
ENGINE							
Oil Level and Condition	Check	•	•	•	•	•	•
Oil and Filter (A Series engines)	(1) Change			•	•	•	•
Oil and Filter (R Series engines)	(1) Change				•	•	•
Air Cleaner Dust Valve (A Series engines)	Clean				•	•	•
Air Cleaner Dust Valve (R Series engines)	Clean				•	•	•
Air Cleaner Outer Element	Change				•	•	•
Air Cleaner Inner Element	Change						•
Fuel System For Leaks and Contamination	Check	•	•	•	•	•	•
Fuel Filter	Drain		•	•	•	•	•
Fuel Filter (A Series engines)	Change			•	•	•	•
Fuel Filter (R Series engines)	Change				•	•	•
Coolant Level and Antifreeze Strength	Check	•	•	•	•	•	•
Fuel Sedimenter	Drain and clean		•	•	•	•	•
Fan Belt Tension/Condition (A Series engines)	Check		•	•	•	•	•
Fan Belt Tension/Condition (R Series engines)	Check		•	•	•	•	•
Valve Clearances (A Series engines)	*Check and Adjust					•	•
Valve Clearances (R Series engines)	*Check and Adjust					•	•
Engine Mount Security (A Series engines))	Check			•	•	•	•
Engine Mount Security (R Series engines)	Check				•	•	•
Radiator	Clean				•	•	•
TRANSMISSION AND AXLES							
Transmission Oil Level	Check	•	•	•	•		
Transmission Oil	(2) Change					•	•
Transmission Oil Filter	Change			•	•	•	•
Axle(s) Oil Level	Check		•	•	•	•	•
Axle(s) Oil	Change				•	•	•
Hub Oil Level	Check		•				
Hub Oil	(3) Change			•	•	•	•
Drive Shafts and Universal Joints	Security/Grease			•	•	•	•
Axle Pivots and Linkages	Grease		•	•	•	•	•
Axle Breather(s)	Check			•	•	•	•
Tyre Pressures/Condition	Check	•	•	•	•	•	•
Hub Wheel Bearings	Check			•	•	•	•
Transmission Strainer	Clean					•	•
Wheel Nut Security	Check	•	•	•	•	•	•
Wheel Alignment	Check	•	•		•	•	•
Trunnion Bearings	*Check/Adjust			•	•	•	•
Steering Stops (if fitted)	Security			•	•	•	•
Transmission Mount Security	Check			•			
Axle Mount Security	Check			•			

(1) If you have to use high sulphur fuel, change the engine oil more frequently (see **Types of Fuel**). In arduous conditions (eg. refuse re-handling, waste paper reclamation etc.) change the oil and filter after every **250 Hours** or three months (whichever comes first).

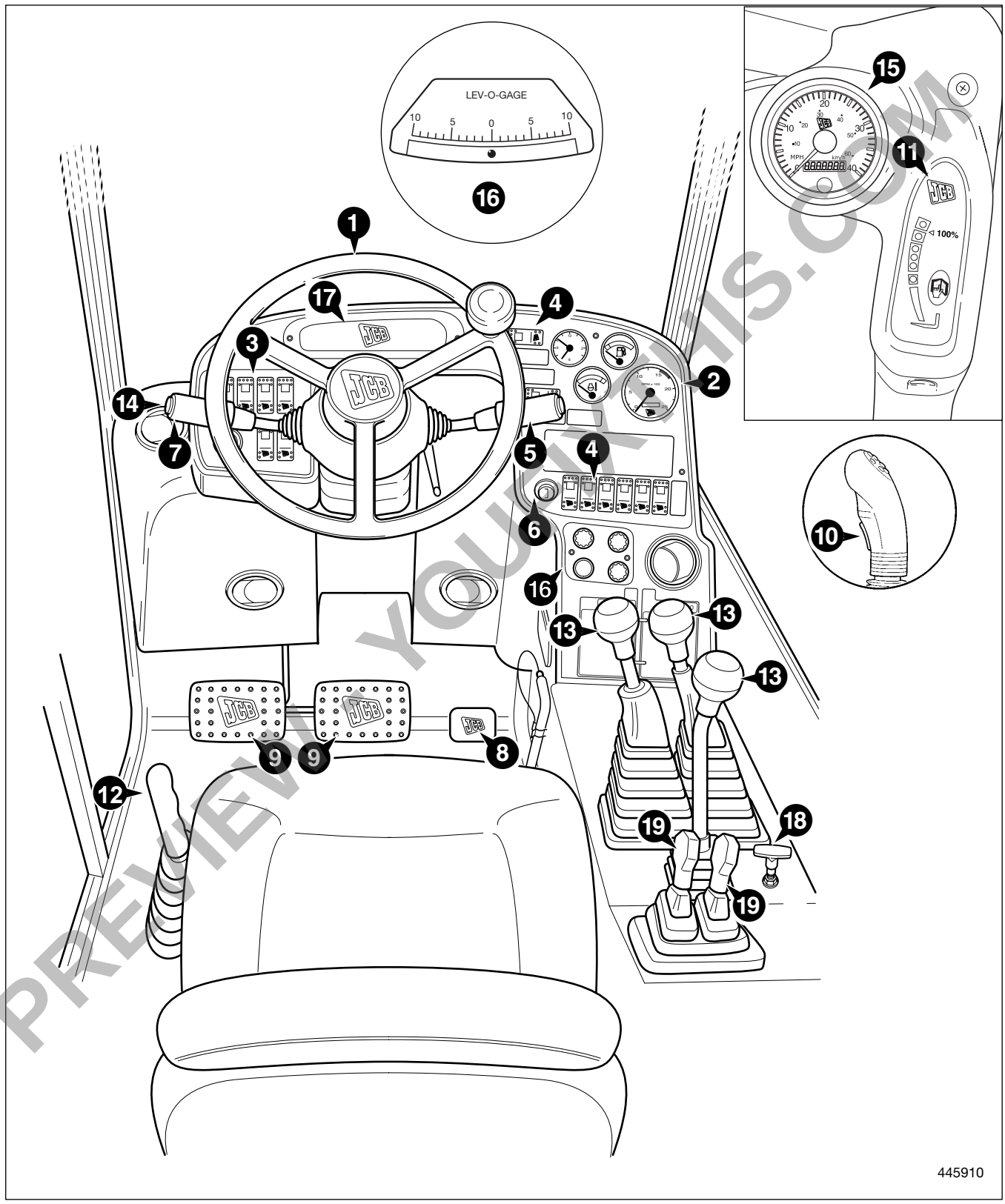
(2) After a major transmission repair, the new oil should be run to operating temperature and changed again to remove any contamination which entered during the repair. Change the oil and filter after a further 100 hours if the oil was heavily contaminated because of, or from the failure (eg. water contamination).

(3) After a hub repair, the new oil should be run to temperature and changed again to remove any contamination which entered during the repair. Change the oil again after a further 100 hours to remove any bedding-in wear. This is particularly important if new brake plates have been fitted.

***Note**: Jobs which should be done by a specialist are shown by *.*
First 100 hrs service only to be completed by JCB Distributor.

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CAB LAYOUT AND CONTROLS



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INTRODUCTION

This chapter is arranged to guide you step-by-step through the task of learning how to use the machine. Read it through from beginning to end. By the end of the chapter you should have a good understanding of the machine and how to operate it.

Pay particular attention to all safety messages. They are there to warn you of possible hazards. Do not just read them; think about what they mean. Understand the hazards and how to avoid them.

If there is anything you do not understand, ask your JCB distributor. He will be pleased to advise you.

When you have learned where the driving controls are and what they do, practice using them. Practice driving the machine in a safe, open space clear of other people.

Get to know the 'feel' of the machine and its driving controls. Move on to the attachment controls only when you can drive the machine confidently and safely.

Take great care when practicing with the attachment controls. Practice in an open space. Keep people clear. Do not jerk the controls; operate them slowly until you understand the effect they have on the machine.

Finally, do not rush the job of learning. Take your time and take it safely.

Remember

BE CAREFUL

BE ALERT

BE SAFE

BEFORE ENTERING THE CAB

The following checks should be made each time you return to the machine after leaving it for any period of time. We advise you also to stop the machine occasionally during long work sessions and do the checks again.

All these checks concern the serviceability of the machine. Some concern your safety. Get your service engineer to check and correct any defects.

⚠ WARNING

Walking or working under a raised boom can be hazardous. You could be crushed if the boom falls or is inadvertently lowered.

Lower the boom fully before doing these checks. If you are new to this machine, get an experienced operator to lower it for you.

If there is nobody to help you, study this handbook until you have learned how to lower the boom. Also make sure that the parking brake is engaged before doing these checks.

5-2-1-1

1 Check for cleanliness:

- **a** Clean the windows, light lenses and rear view mirrors.
- **b** Remove dirt and debris, especially from around the linkages, rams, pivot points and radiator.
- **c** Make sure the cab step and handholds are clean and dry.
- **d** Clean all safety decals. Replace any that are missing or cannot be read.

2 Check for damage:

- **a** Inspect the machine generally for damaged and missing parts.
- **b** Make sure that all pivot pins are secured correctly in place.
- **c** Inspect the windows for cracks and damage.
- **d** Check for oil, fuel and coolant leakages beneath the machine.

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FLUIDS, LUBRICANTS, CAPACITIES AND SPECIFICATIONS
532-120, 535-125, 535-140, 537-135, 540-140, 540-170 Machines

***Note**: New engines DO NOT require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores, resulting in excessive oil consumption, could occur if the engine is gently run-in. Under no circumstances should the engine be allowed to idle for extended periods; (e.g. warming up without load).*

ITEM	CAPACITY Litres (Gal)	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
Fuel Tank	125 (27.5)	Diesel Oil	(See **Types of Fuel**)
Engine (Oil)			
Engine Type:			
A series	10 (2.2)	**JCB High Performance Engine Oil 10W30** -15 °C to 40 °C (5 °F to 104 °F) **JCB High Performance Engine Oil 15W40** -10 °C to 50 °C (14 °F to 122 °F)	SAE10W/30 API CF4/SG (ACEA, E2:B2:A2) SAE15W/40 API CF4/SG (ACEA, E2:B2:A2)
R series	10 (2.2)	**JCB Extreme Performance Engine Oil 15W40**	CH4/SJ (ACEA E5-B3-A3)
Engine (Coolant)		**JCB Four Seasons Antifreeze**	ASTM D3306-74
System (A series)	23 (5.0)	**And Summer Coolant**	
Antifreeze (A series)	12.5 (2.75)	(See **Coolant Mixtures**)	
System (R series)	22 (4.4)		
Antifreeze (R series)	12 (2.4)		
Gearbox		**JCB Extreme Performance**	
Machines with RJ type engine & 4 speed gearbox only		**Transmission Fluid (SAE10W)** Below 40 °C (104°F)	SAE10W, Q8 EL4117 Friction modified oils MUST NOT be used (eg. Dexron ATF type).
Wet fill	17 (3.7)		
Dry fill	19 (4.2)	**JCB Extreme Performance**	
All Other machines		**Transmission Fluid (SAE30)**	SAE30, Q8 EL4118
Wet fill	21 (4.6)	Above 40 °C (104°F)	Friction modified oils MUST NOT be used (eg. Dexron ATF type).
Dry fill	23 (5.0)		
Front Axle			
Housing	19 (4.2)	**JCB High performance**	API GL-4
Hubs (x2)	2 (0.4)	**Gear Oil Plus**	MUST be suitable for oil immersed brakes and limited slip differentials
Rear Axle			
Housing	18 (3.9)		
Hubs (x2)	2 (0.4)		
Brake System		**JCB High Performance Hydraulic Fluid 15** DO NOT USE ORDINARY BRAKE FLUID	ISO VG15
Hydraulic Tank †		**JCB High Performance Hydraulic Fluid 32**	ISO VG32
532-120, 535-125	131 (28.8)	Below 38 °C (100 °F)	
535-140, 537-135	131 (28.8)	**JCB High Performance Hydraulic Fluid 46**	ISO VG46
540-140	131 (28.8)		
540-170	180 (39)	Above 38 °C (100 °F)	
Grease Points ‡		**JCB HP Grease**	Lithium complex NLGI No. 2 consistency including extreme pressure additives.
		JCB Special MPL-EP Grease	Lithium based NLGI No. 2 consistency including extreme pressure additives.
Wear Pad Runways		**JCB Waxoyl**	

***†** This is a tank capacity. The total hydraulic system capacity depends on the equipment being used. Fill and check with all rams closed. Do not mix different grades of hydrauilic oil.*

***‡** If JCB MPL Grease is used, all 50 hour greasing operations must be carried out at TEN (10) HOUR intervals; all 500 hour greasing operations must be carried out at 50 HOUR intervals.*

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MECHANICAL TOW HITCH OPTION

Make sure you will be obeying all pertinent laws and regulations before towing.

When towing, the machine mut be unladen (without ballast) and have two wheel steering engaged.

Make sure that the trailer draw bar is suitable for your machine and has sufficient clearance to enable the machine to turn without fouling.

⚠WARNING

Examine the tow hitch and the trailer draw bar towing ring for signs of wear before each use. A badly fitting or worn hitch or towing ring could cause loss of the trailer and injury to yourself or other people.
0067

Use the following procedure to attach a trailer to the tow hitch.

1 Check the trailer weights and tyre pressures. The maximum towing capacity depends on the type of braking sytem fitted (see ***Specification*** section). Correct tyre pressures for your machine are shown on a chart in the cab.

⚠WARNING

Do not exceed the permitted limits on trailer gross weight or hitch load. The machine may become unstable.
0068

2 Engage the parking brake, *see **Cab Layout and Controls** in OPERATION section.*

3 Adjust the mirror(s) to obtain a good view of the tow hitch area.

4 If your machine is fitted with a switch-operated 2/4 wheel drive selector, you can tow in 2-wheel drive if required. But before towing in 2-wheel drive, you must check that the transmission changes automatically to 4-wheel drive when the brake pedal is pressed (i.e. that the **2-wheel drive selected indicator light** goes out).

5 The procedure for engaging the trailer to the tow hitch will depend on the type of trailer. In all cases observe the following precautions:

a Ensure that the trailer and its draw bars are correctly positioned for engagement before the machine begins to approach it.

b If a helper is available to manoeuvre the trailer he should stand well clear of the machine until the tow hitch is correctly aligned with the trailer towing eye.

c The helper should not approach the trailer or machine until the machine has been stopped, with the parking brake engaged and the engine switched off.

d Once the trailer has been engaged, fit pin **A** and lock in position as shown. The machine operator must not start the engine until the helper is clear of the machine and trailer.

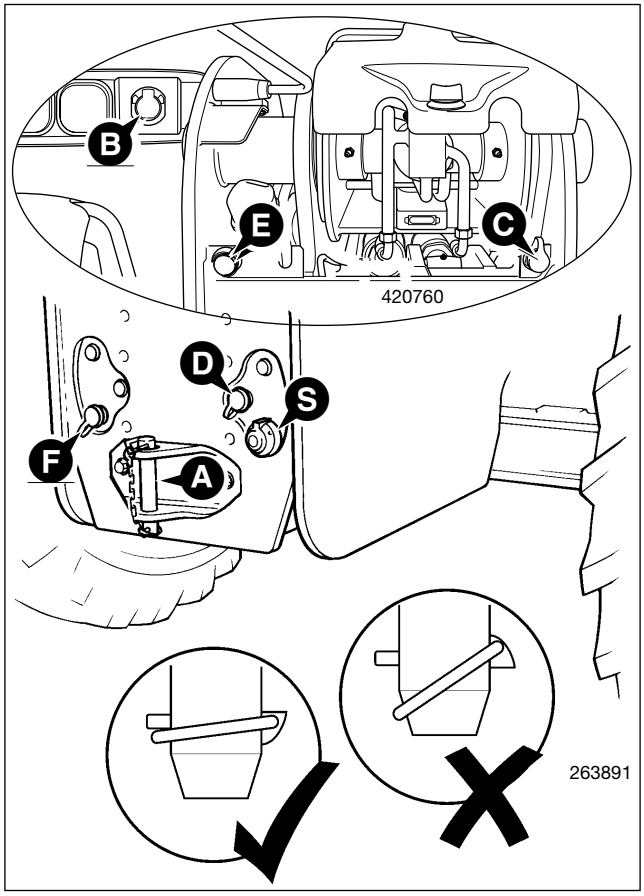
6 Connect the trailer lights into socket **B** (535-60) or **S** (other machines). Make sure that all the trailer lights and the direction indicator lights are working correctly and are visible by other road users.

7 If an optional trailer brake valve is fitted, connect the trailer brakes into socket **C** (535-60) or **D** (other machines). Trailer braking is operated by the brake pedals.

Before travelling on the public highway check that the brakes work correctly and get used to the braking effect.

8 Connect auxiliary hose to coupling **E** (535-60) or **F** (other machines).

continued on next page



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FLUIDS, LUBRICANTS, CAPACITIES AND SPECIFICATIONS
530-70, 533-105, 535-60, 535-95, 540-70 Machines

***Note**: New engines DO NOT require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores, resulting in excessive oil consumption, could occur if the engine is gently run-in. Under no circumstances should the engine be allowed to idle for extended periods; (e.g. warming up without load).*

ITEM	CAPACITY Litres (Gal)	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
Fuel Tank	125 (27.5)	Diesel Oil	(See **Types of Fuel**)
Engine (Oil)			
Engine Type:	10 (2.2)	**JCB High Performance Engine Oil 10W30**	SAE10W/30
A series		-15 °C to 40 °C (5 °F to 104 °F)	API CF4/SG (ACEA, E2:B2:A2)
		JCB High Performance Engine Oil 15W40	SAE15W/40
		-10 °C to 50 °C (14 °F to 122 °F)	API CF4/SG (ACEA, E2:B2:A2)
R series	10 (2.2)	**JCB Extreme Performance Engine Oil 15W40**	CH4/SJ (ACEA E5-B3-A3)
Engine (Coolant)		**JCB Four Seasons Antifreeze**	ASTM D3306-74
System (includes		**And Summer Coolant**	
50% Antifreeze)		(See **Coolant Mixtures**)	
A series	23 (5.0)		
R series	22 (4.4)		
RJ builds from TBA	17.6 (3.9)		
Gearbox		**JCB Extreme Performance**	
Machines with		**Transmission Fluid (SAE10W)**	SAE10W, Q8 EL4117
RJ type engine &		Below 40 °C (104°F)	Friction modified oils MUST
4 speed gearbox only			NOT be used (eg. Dexron ATF type).
Wet fill	17 (3.7)		
Dry fill	19 (4.2)	**JCB Extreme Performance**	
All Other machines		**Transmission Fluid (SAE30)**	SAE30, Q8 EL4118
Wet fill	21 (4.6)	Above 40 °C (104°F)	Friction modified oils MUST
Dry fill	23 (5.0)		NOT be used (eg. Dexron ATF type).
Front Axle			
Housing	19 (4.2)	**JCB High performance**	API GL-4
Hubs (x2)	2 (0.4)	**Gear Oil Plus**	MUST be suitable for oil immersed brakes and limited slip differentials
Rear Axle			
Housing	18 (3.9)		
Hubs (x2)	2 (0.4)		
Brake System		**JCB High Performance Hydraulic Fluid 15**	ISO VG15
		DO NOT USE ORDINARY BRAKE FLUID	
Hydraulic Tank †		**JCB High Performance Hydraulic Fluid 32**	ISO VG32
530-70, 540-70	115 (25.3)	Below 38 °C (100 °F)	
533-105, 535-95	125 (27.4)	**JCB High Performance Hydraulic Fluid 46**	ISO VG46
535-60	113 (24.8)	Above 38 °C (100 °F)	
Grease Points ‡		**JCB HP Grease**	Lithium complex NLGI No. 2 consistency including extreme pressure additives.
		JCB Special MPL-EP Grease	Lithium based NLGI No. 2 consistency including extreme pressure additives.
Wear Pad Runways		**JCB Waxoyl**	

***†** This is a tank capacity. The total hydraulic system capacity depends on the equipment being used. Fill and check with all rams closed. Do not mix different grades of hydrauilic oil.*

***‡** If JCB MPL Grease is used, all 50 hour greasing operations must be carried out at TEN (10) HOUR intervals; all 500 hour greasing operations must be carried out at 50 HOUR intervals.*

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BOOM WEAR PAD CLEARANCE

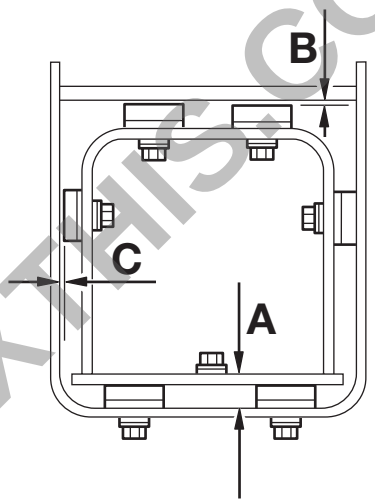
Wear Limits

Check the boom wear pad clearances every 500 hours.

Contact your JCB distributor if the wear pad clearances exceed the maximum stated dimensions below.

530-70, 535-60 and 540-70 Machines

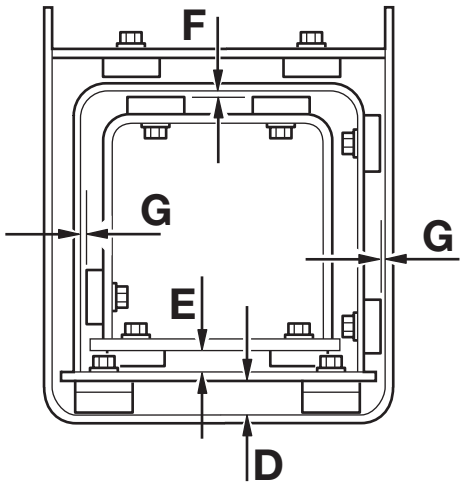
	Maximum Gap (mm)	Maximum Gap (in)	
A	37-41	1.45 to 1.60	
B	3	0.12	Boom Front
	1.5	0.06	Boom Rear
C	3.0	0.12	Boom Front
	1.5	0.06	Boom Rear



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532-120, 533-105, 535-95, 535-125, 535-140, 537-135 and 540-140 Machines

	Maximum Gap (mm)	Maximum Gap (in)
D	37-41	1.45 to 1.60
E	21-25	0.83-0.98
F	3	0.12
G	1.5	0.06



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