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Safety

Safety - Yours and Others

All machinery can be hazardous. When a machine is correctly operated and maintained, it is a safe machine 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 machine you will find warning messages, you must 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 machine you must be thinking of what hazards there might be and how to avoid them.

Do not work with the machine 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 machine or the work, ask someone who knows. Do not assume anything.

Remember:

- Be careful
- Be alert
- Be safe.

Safety Warnings

In this manual 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 machine damage.

The safety alert system symbol (shown) also helps to identify important safety messages in this manual. When you see this symbol your safety is involved, carefully read the message that follows.

Figure 2. The safety alert system symbol



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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.

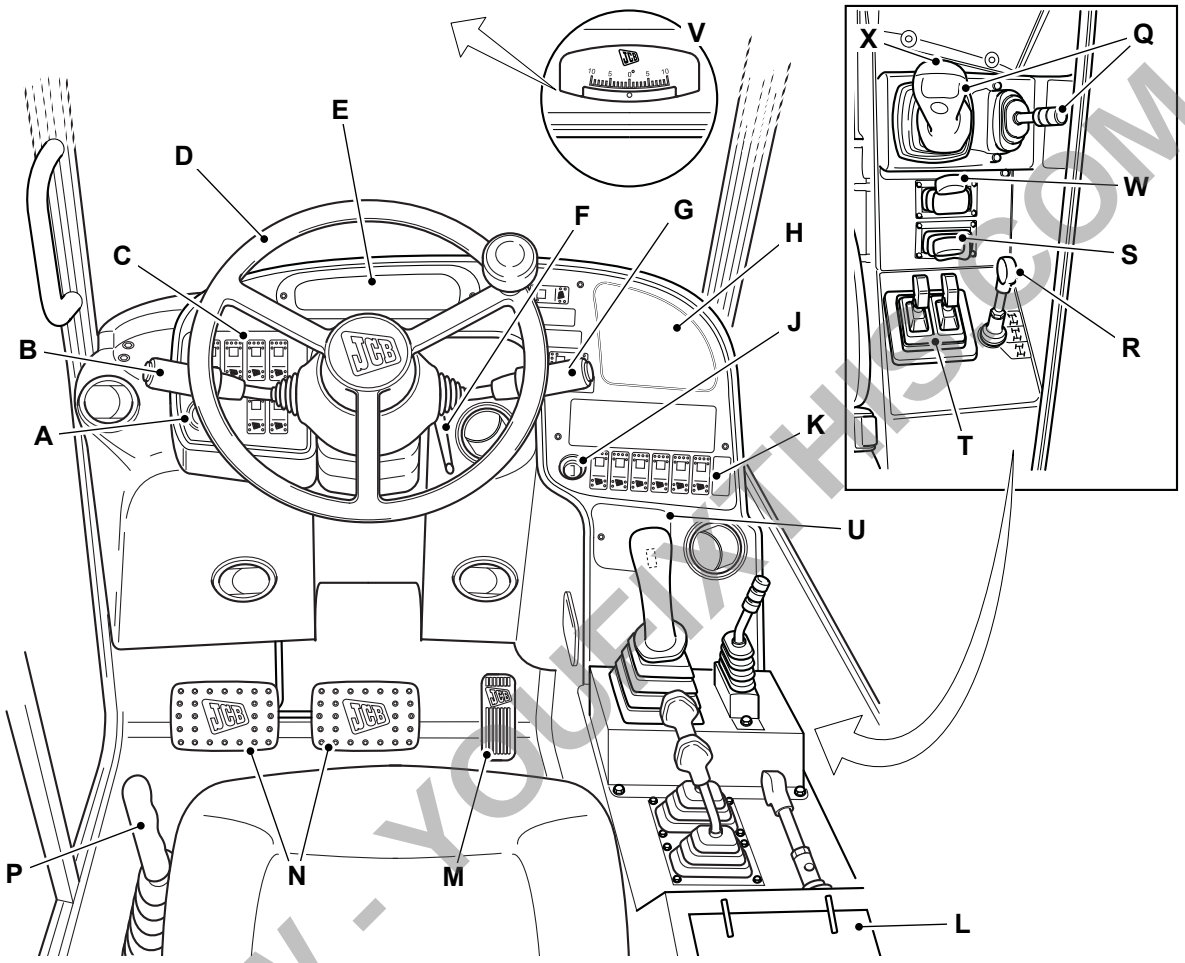
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Operator Station

Component Locations

Figure 11.



A Hourmeter Refer to: Instrument Panel (Page 51).
B Drive lever Refer to: Gear Lever (Page 49).
C Console switches Refer to: Console Switches (Page 19).
D Steering wheel Refer to: Steering Wheel (Page 47).
E Instrument panel Refer to: Instrument Panel (Page 51).
F Steering column adjustment Refer to: Steering Column (Page 47).
G Multi-purpose switch Refer to: Multi-Purpose Switch (Page 17).
H Instrument panel Refer to: Instrument Panel (Page 51).
J Ignition switch Refer to: Ignition Switch (Page 17).
K Console switches Refer to: Console Switches (Page 19).
L Load ChartsRefer to: Load Charts (Page 84).
M Accelerator pedal Refer to: Accelerator Pedal (Page 47).
N Brake pedals Refer to: Service Brake Pedal (Page 47).
P Park brake Refer to: Park Brake (Page 48).
Q Boom and carriage controls Refer to: Operating Levers/Pedals (Page 78).
R Steer mode selectorRefer to: Steer Mode Control (Page 50).
S Chassis levelling controls Refer to: Operating Levers/Pedals (Page 78).
T Stabilizer controls Refer to: Operating Levers/Pedals (Page 78).
U HVAC (Heating Ventilation Air Conditioning) Refer to: Heating, Ventilating and Air-Conditioning (HVAC) (Page 101).
V InclinometerRefer to: Inclinometers (Page 87).
W Auxiliary controlsRefer to: Auxiliary Circuit Controls (Page 82).
X Transmission dump switchRefer to: Transmission Dump Switch (Page 49).

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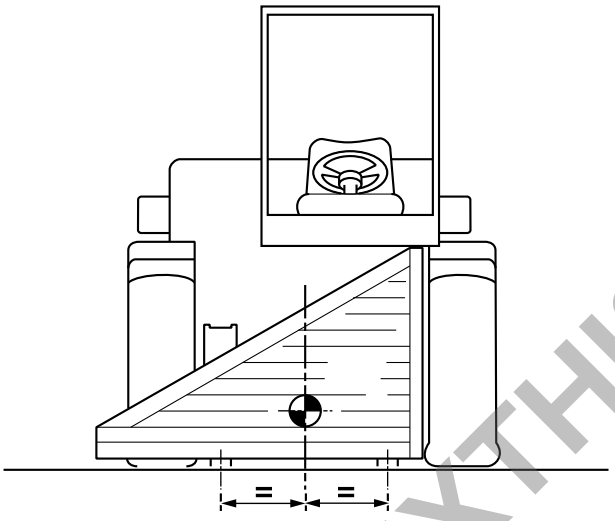
3.1. If the engine cannot be run, the boom may have to be hoisted into the transport position and secured. The procedure for doing this will depend on the machine's condition and its hydraulic circuits. For assistance, contact your JCB dealer.

4. Attach the drawbar to a suitable location.
5. The machine is now ready for towing. Make sure you understand what the towing driver will be doing. Obey his instructions and all relevant regulations.
6. If the engine cannot be started, the effort required to steer the machine is greatly increased.

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Figure 112.

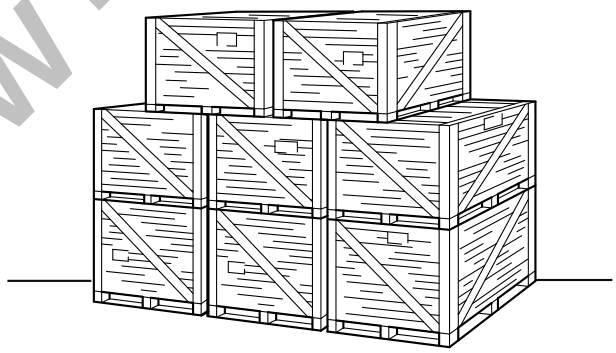


Stacking Loads

Box Pallets

Stack the box pallets straight and square. For extra stability, stagger the top row as shown.

Figure 113.



Cylindrical Loads

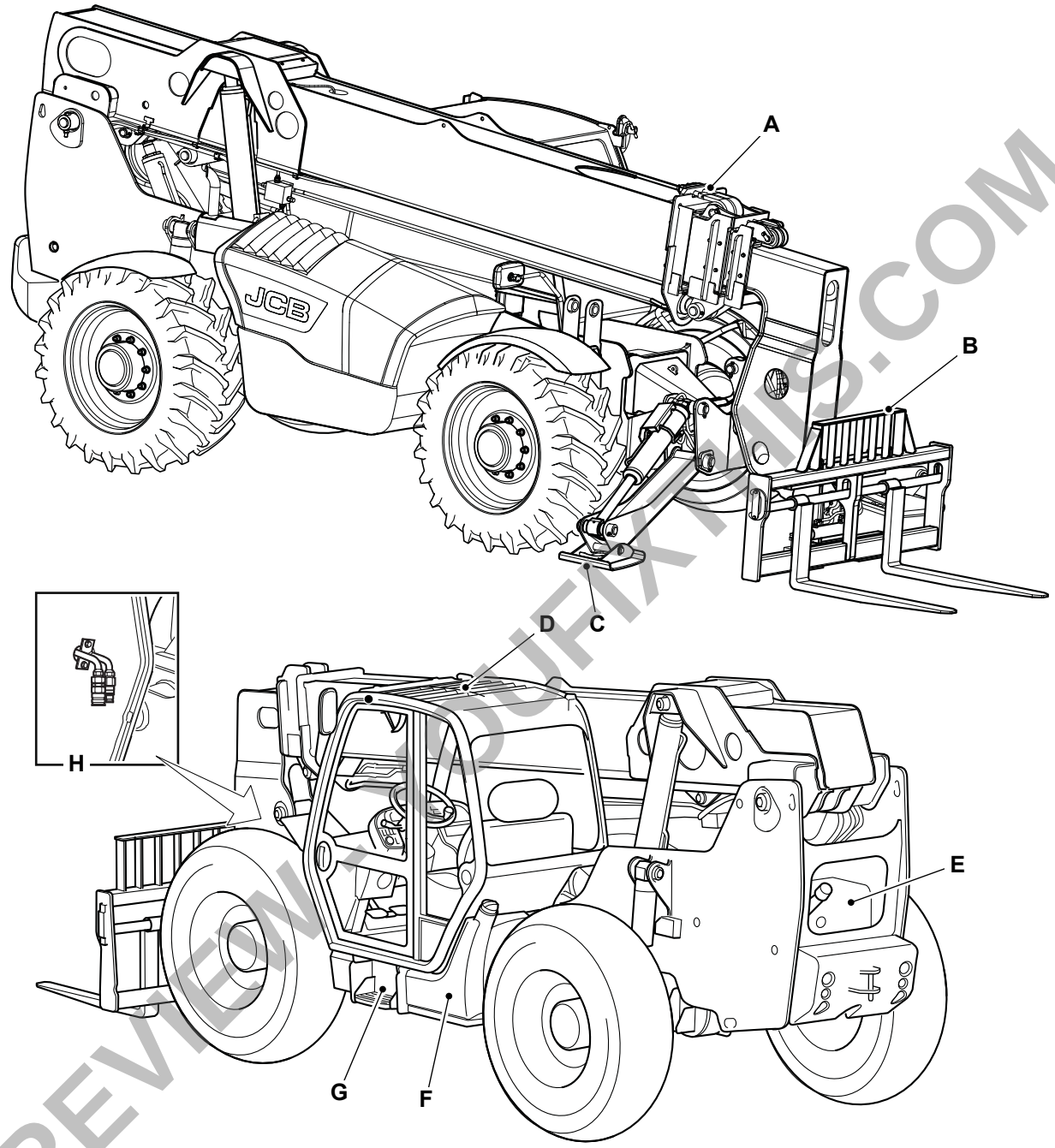
Stack the cylindrical loads tightly together and level. Put wedges at both ends of each row.

If you are building a pyramid stack, put wedges at both ends of the bottom row.

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Figure 3.



A Lift arm
B Carriage
C Stabilizer
D ROPS (Roll-Over Protective Structure)/FOPS (Falling Object Protective Structure) cab
E Hydraulic tank
F Fuel tank
G Battery
H Quick release couplings

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Fluids, Lubricants and Capacities

General

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.

No warranty liability will be accepted for engine failures where unacceptable fuel grades (or their equivalent) have been used at any stage.

Every JCB Tier 4 Final machine fitted with a SCR (Selective Catalytic Reduction)system should be fitted only with the correct CJ grade oil available from all JCB dealers. Failure to do this can result in permanent damage to the SCR catalyst in such a way that it cannot be recovered.

Table 48.

Item	Capacity	Fluid/Lubricant	JCB Part Number	Container Size[1]	Specification
Diesel Fuel Tank	132L (34.9 US gal)	Diesel Oil (Winter Additive)	4005/1200		See Technical Data, Fluids, Lubricants and Capacities, Fuel.
DEF (Diesel Exhaust Fluid) Tank (minimum to maximum)	9L (2.4US gal)	DEF			See Technical Data, Fluids, Lubricants and Capacities, Diesel Exhaust Fluid.
Engine (Oil)[2]	Min 12.5L (3.3US gal) - Max 15L (3.9US gal)	JCB EP 5W40 -30 °C (-22.0 °F) to 50 °C (121.9 °F) (DEF and non-DEF machines in USA)	4001/3405U	5 US Gallons	API CJ-4
Engine (Coolant)[3]	20L (5.3US gal)	JCB Antifreeze HP/Coolant + Water	4006/1110U	5 US Gallons	ASTM D6210
Gearbox	19L (5US gal)	JCB Transmission Fluid EP 10W, -32 °C (-26 °F) to 40 °C (104 °F)[4]	4000/2505U	5 US Gallons	
Gearbox (arctic kit)	19L (5US gal)	JCB HP Universal ATF, -48 °C (-54 °F) to 40 °C (104 °F)[4]	4000/2305U	5 US Gallons	
Front axle housing	18L (4.8US gal)	JCB Gear oil HP plus	4000/2205U[5]	5 US Gallons	
Front Hubs	2L (0.5US gal)	JCB Gear oil HP plus	4000/2205U[5]	5 US Gallons	
Rear axle housing	13L (3.4US gal)	JCB Gear oil HP plus	4000/2205U[5]	5 US Gallons	
Rear Hubs	2L (0.5US gal)	JCB Gear oil HP plus	4000/2205U[5]	5 US Gallons	
Brake system		JCB Hydraulic fluid HP 15[6]	4002/0503U	1 US Gallons	
Hydraulic tank [7]	128L (33.8US gal)	JCB Optimum Performance Hydraulic Fluid 46	4002/2005U	5 US Gallons	
Hydraulic tank (arctic kit)[7]	128L (33.8US gal)	JCB Ultra Performance Multigrade Hydraulic Fluid 32 -42 °C (-44 °F) to 40 °C (104 °F)	4002/2905U	5 US Gallons	
Grease Points		JCB Special HP Grease (Blue)[8]	4003/2017	0.4kg x 24	

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Figure 65.



Figure 66.



Figure 67.



Warning/Fault Icons

There are three levels of warnings each is represented by a different colour. Depending on the level of severity it may or may not be acknowledgeable by the operator. Some icons are available at all three levels but are not shown below:

- Yellow - acknowledgeable
- Critical red - not acknowledgeable
- Critical red (50% screen size) - acknowledgeable

Table 14.

	Transmission		Stabilizer		Transmission pressure
	Exhaust treatment		Joystick		
	Telematics		Immobiliser		Brake
	Adblue level		Engine		Engine oil pressure
	Coolant temperature				Steer
	RAS		Hydraulics		DEF acknowledgeable
	Transmission temperature		CAN		Foot brake press

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1. The level of severity, either Critical or Warning.

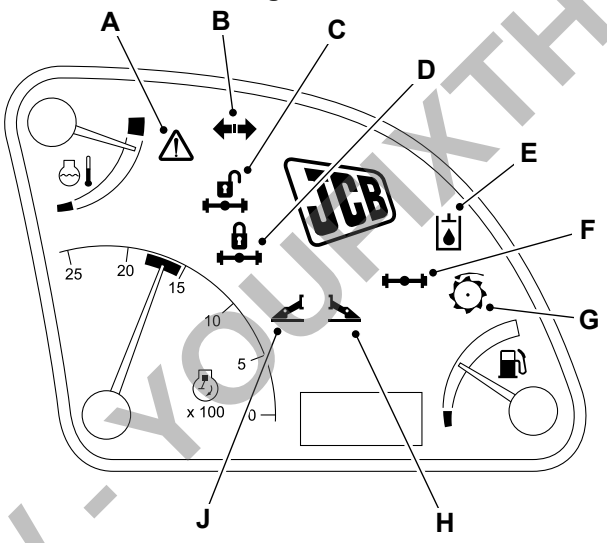
   1.1. Critical Fault (stop now) - Indicates that the machine will be damaged unless it is stopped. Critical faults can not be acknowledged. When a critical fault is detected, the red MIL comes on (and an audible alarm sounds) to indicate that the machine will be damaged unless it is stopped. Stop and park the machine as soon as safety permits. Switch off the engine. Contact your JCB distributor.

   1.2. Warning Fault (service) - Indicates that the machine function will be impaired until the error is rectified. Press the Information switch for 3 seconds to acknowledge a service error. Press the information button again to scroll through existing fault codes. If a new warning occurs or a warning clears and re-occurs then the service message is displayed again. When warning faults occur, the amber MIL comes on and an audible alarm sounds for 1 second to indicate that the machine function will be impaired until the error is rectified. Take the machine for maintenance/repair as soon as convenient.

2. The fault code. This code is specific to the active fault and can be used to aid fault diagnosis.

Warning Lights

Figure 34.



A MIL
B Not used.
C RAS (Rear Axle Stabilization) System - Cushioned Mode Indicator (option)
D RAS System - Locked Mode Indicator (option)
E Hydraulic Isolation - Fault Indicator (option)
F RAS System - Fault Indicator (option)
G Not used.
H Right-Hand Stabilizer Indicator (option)
J Left-Hand Stabilizer Indicator (option)

Malfunction Indicator Lamp (MIL)

Amber/Red light. The MIL light comes on to show that a system error has been detected.

- Red Light. The light comes on (and an audible alarm sounds) to indicate that the machine will be damaged unless it is stopped. Stop and park the machine as soon as safety permits. Switch off the engine. Contact your JCB distributor.
- Amber light. The light comes on (and an audible alarm sounds) to indicate that the machine function will be impaired until the error is rectified. Take the machine for maintenance/ repair as soon as convenient.

Rear Axle Stabilization (RAS) System - Cushioned Mode Indicator

Green Light. The light comes on when the RAS system operates in cushioned mode.

Rear Axle Stabilization (RAS) System - Locked Mode Indicator

Green Light. The light comes on when the RAS system operates in locked mode.

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Table 21.

Component	Task	10	50	100 (1)	500	1,000	1,500	2,000
ENGINE								
Oil level	Check	○	○	□	□	□	□	□
Coolant Quality and Level	Check	○	○	□	□	□	□	□
Coolant or Oil Leaks	Check	○	○	□	□	□	□	□
Water Sedimentor	Clean		○	□	□	□	□	□
Fuel Filter (machine mounted)	Change				□	□	□	□
Oil and Filter(2, 3, 4)	Change				□	□	□	□
All Hoses - Condition	Check			□	□	□	□	□
Radiator(4)	Clean				□	□	□	□
Front End Accessory Drive (FEAD) Belt Condition	Check				□	□	□	□
Engine Fuel Filter	Change					□		□
Air Cleaner Outer Element (4)	Change					□		□
DEF (Diesel Exhaust Fluid)Filter(11)	Change					□		□
Crankcase Ventilation Filter	Change						□	
Air Cleaner Inner Element	Change							□
Valve Clearances(5)	Check and adjust							□
Oil Filler and Dipstick Seals	Change							□
Cooling System	Drain and Refill							□
Front End Accessory Drive (FEAD) Belt(10)	Change							
Injectors(5, 10)	Change							
Injector(s) Leak Off Rail(5, 10)	Replace							
High Pressure Fuel Lines(5, 10)	Change							
TRANSMISSION, AXLES AND STEERING								
Transmission Mount Security	Check			□	□	□	□	□
Transmission Oil Level	Check	○	○	□	□	□	□	□
Transmission Oil(6)	Change					□		□
Transmission Oil Filter	Change			□	□	□	□	□
Axle Mount Security	Check			□	□	□	□	□
Axle(s) Oil Level	Check		○	□	□	□	□	□
Axle(s) Oil	Change				□	□	□	□
Hub Oil Level (Without Oil Immersed Brakes)	Check			□	□	□	□	□
Hub Oil (Other Machines Without Oil Immersed Brakes)(7)	Change					□		□
Hub Oil (Other Machines With Oil Immersed Brakes)(7)	Change			□	□	□	□	□
Axle Breather(s)	Check			□	□	□	□	□
Steering Stops (if fitted)	Security			□	□	□	□	□

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CAUTION Before you start using the machine, check with your local public water supplier if there are buried pipes and drains on the site. If there are, obtain a map of their locations and follow the advice given by the water supplier.

You are strongly advised to make sure that the safety arrangements on site comply with the local laws and regulations concerning work near buried pipes and drains.

CAUTION If you cut through a fibre optic cable, Do not look into the end of it, your eyes could be permanently damaged.

An applicable worksite organisation is required in order to minimise hazards that are caused by restricted visibility. The worksite organisation is a collection of rules and procedures that coordinates the machines and people that work together in the same area. Examples of worksite organisation include:

- Restricted areas
- Controlled patterns of machine movement
- A system of communication.

You and/or your company could be legally liable for any damage you may cause to public utilities. It is your responsibility to make sure that you know the locations of any public utility cables or pipes on the worksite which could be damaged by your machine.

Risk Assessment

⚠ **DANGER** Factors affecting machine stability include size and type of load, angle of elevation, the distance the boom is extended, ground condition and wind speed and direction.

It is the responsibility of the operator to assess the wind conditions and size of load before operating the machine.

It is the responsibility of the operator to assess the terrain, surface roughness, firmness of ground (remember that when wet, the ground will not support the same loads as when dry) before operating the machine.

It is the responsibility of the competent people that plan the work and operate the machine to make a judgement about the safe use of the machine, they must take into account the specific application and conditions of use at the time.

It is essential that a risk assessment of the work to be done is completed and that the operator obeys any safety precautions that the assessment identifies.

If you are unsure of the suitability of the machine for a specific task, contact your JCB dealer who will be pleased to advise you.

The following considerations are intended as suggestions of some of the factors to be taken into account when a risk assessment is made. Other factors may need to be considered.

A good risk assessment depends on the training and experience of the operator. Do not put your life or the lives of others at risk.

Personnel

- Are all persons who will take part in the operation sufficiently trained, experienced and competent? Are they fit and sufficiently rested? A sick or tired operator is a dangerous operator.
- Is supervision needed? Is the supervisor sufficiently trained and experienced?
- As well as the machine operator, are any assistants or lookouts needed?

The Machine

- Is it in good working order?
- Have any reported defects been corrected?
- Have the daily checks been carried out?
- Are the tyres still at the correct pressure and in good condition and is there sufficient fuel to complete the job (if applicable)?

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Notes:

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Stopping and Parking

General

⚠ **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.

WARNING You or others can be killed or injured if you suddenly change from forward to reverse, or vice versa, when travelling. The machine will immediately reverse direction without warning to others. Always follow the recommended procedure for changing between forward and reverse drive.

WARNING Do not dismount a moving machine.

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 steps, handrails and your boot soles are clean and dry. Do not jump from the machine. Do not use the machine controls as handholds, only use the handrails.

Notice: The park brake must not be used to slow the machine from travelling speed, except in an emergency, otherwise the efficiency of the brake will be reduced.

1. Stop the machine on dry and level ground where the machine will not be a hazard or danger.
2. Ease up on the accelerator pedal and press down on the brake pedal to bring the machine to a smooth stop. Keep the foot brake on until the park brake has been applied and the drive disengaged.
3. Activate the park brake by pulling up the lever.
4. Set the transmission to neutral. Make sure the lever is in its detent position. 506-36 machines only: make sure that the park brake indicator light is extinguished.
5. Retract and lower the boom, rest the forks flat on the ground.
6. Lock the controls.

   Refer to: Control Lock (Page 46).
7. It is recommended that turbocharged engines are run at 1000 RPM (approximately) and reduced load for a short of time before shut down to let the turbocharger to cool.

   Duration: 2 –3 min

   7.1. Engines with SCR (Selective Catalytic Reduction) after-treatment: A ticking noise will be heard from the purge pump for a short time after stopping the engine.
8. If you are leaving the machine, make sure that all switches are set to off. If necessary, leave the hazard warning and/or side lights switched on. Remove the ignition key.
9. Use the handholds and step when you climb down from the machine. If you are leaving the machine, close and latch all windows and lock both doors. Make sure that the diesel fuel and DEF (Diesel Exhaust Fluid) (if applicable) filler caps are locked on.
10. At the end of a working cycle or if the machine is being left unattended, provided the lights are not required remove the battery isolator key (if installed).

    Refer to: Battery Isolator (Page 202).

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Working with the Boom

General

⚠ **WARNING** Stop the machine and apply the park brake before conducting any lifting operations.

WARNING Under no circumstances should personnel be lifted into the air without using an approved and properly secured platform. Failure to follow this warning could result in death or serious injury.

WARNING Maintain correct tyre pressures to avoid upsetting the lateral stability of the machine. Inspect tyres daily for signs of damage, cuts or embedded objects which could cause loss of pressure.

WARNING Loading and unloading on soft or uneven ground can be hazardous. The machine could tip over and you could be killed or injured. Make sure that the ground is level and firm before loading and unloading. Whenever possible, avoid soft or uneven ground when carrying a load.

WARNING Overloaded scaffolding can collapse. Never load scaffolding beyond the regulation capacity.

WARNING Operating the boom while you travel can cause accidents. You will not have total control of the machine. Never operate the boom when you travel.

WARNING A high load can block your view and reduce the machine's stability. Travel with the load low to the ground. Travel slowly and with caution over rough, muddy or loose surfaces.

WARNING When transporting a load on a slope, drive slowly and keep the load uphill of the machine. This will increase stability.

WARNING Keep yourself and all others away from the lifting mechanism. Never allow persons to walk below a raised cab at any time. Do not carry passengers.

CAUTION Make sure you know the weight of the load before trying to lift it. Raise the load only a few centimetres at first, to check that the machine is stable. Lower the load straight away if the machine begins to feel unstable. Do not exceed the loading limits shown on the Load Charts.

CAUTION Travelling too fast or with the load too high can make the machine tip over. Keep the load close to the ground when travelling. Do not go faster than walking pace when the machine is carrying a load. Drive carefully over bumps and curbs. Do not operate the boom/carriage controls while the machine is moving.

CAUTION Loads stacked on uneven ground can topple. Never stack loads on uneven ground.

CAUTION A raised boom can strike overhead objects. Always check for overhead clearance before raising the boom.

Practice with palleted loads first. Do not handle awkward loads until you can handle palleted loads safely and confidently.

Make sure that any location where a load is to be placed is strong enough to hold the weight of the load.

Look in the direction of travel and keep a clear view of the way ahead. Seek assistance if forward vision is obscured by a bulky load. Particular care is required when driving off level ground.Refer to: Slopes (Page 72).

Do not carry stacked loads that are higher than the fork carriage.

Drive at a speed consistent with conditions. Slow down when travelling on wet, slippery or loose surfaces.

Drive with care to minimise bouncing over rough surfaces. This can result in loss of load.

Lifting and Loading Operations

Ensure that all local and national legislation governing operations such as lifting and loading are fully satisfied before operating the machine. This should include the selection of the correct model of machine for the operation, and the planning of the lifting operation itself.

Other countries and territories have their own legislation similar to the above. Be sure that you are aware of all local and national legislation governing lifting and loading operations where you are operating.

Fork Ratings

⚠ **CAUTION** Do not exceed the total rated load capacity of the forks being used. Forks can break resulting in a loss of load and possible injury.

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- Using a nail brush will help
- Use special hand cleansers to help clean dirty hands
- Never use petrol, diesel fuel, or paraffin for washing

- Avoid skin contact with oil soaked clothing
- Don't keep oily rags in pockets
- Wash dirty clothing before re-use
- Throw away oil-soaked shoes

Battery

Warning Symbols

The following warning symbols may be found on the battery.

Figure 137.



A Keep away from children
B Shield eyes
C No smoking, no naked flames, no sparks
D Explosive gas
E Battery acid
F Note operating instructions

First Aid - Oil

Eyes

In the case of eye contact, flush with water for 15min. If irritation persists, get medical attention.

Swallowing

If oil is swallowed do not induce vomiting. Get medical advice.

Skin

In the case of excessive skin contact, wash with soap and water.

Spillage

Absorb with sand or a locally approved brand of absorbent granules. Scrape up and remove to a chemical disposal area.

Fires

⚠ **WARNING** Do not use water to put out an oil fire. This will only spread it because oil floats on water.
Extinguish oil and lubricant fires with carbon dioxide, dry chemical or foam.

First Aid - Electrolyte

Eyes

In the case of eye contact, flush with water for 15 min. always get medical attention.

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Axles

Oil

Check (Level)

⚠ **Notice:** The oil level must be checked with the machine level, otherwise a false indication of the amount of oil will be given.

Notice: It is not recommended that the machine be driven with the axle partially filled with oil.

1. Make the machine safe.
   Refer to: Maintenance Position - Boom Lowered (Page 148).
2. Get access to the axle fill/level plug.
   Refer to: Service Points (Page 152).
3. Clean the area around the fill/level plug.
4. Remove the plug with its sealing washer.
5. Make sure the oil is level with the bottom of the hole.
6. If necessary add oil.
   Refer to: Fluids, Lubricants and Capacities (Page 223).
7. Clean the fill/level plug.
8. Install the plug with its sealing washer.
9. Tighten the plug to the correct torque value.
   Refer to: Torque Values (Page 230).

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Engine Fuses

Figure 200.

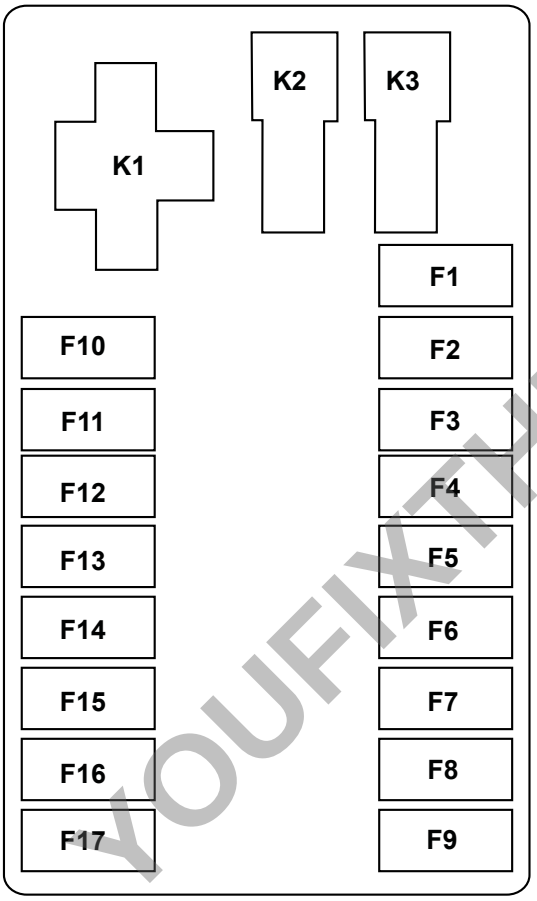


Table 66.

Fuse	Circuit(s)
F1	Power hold relay
F2	Fuel pump
F3	Starter solenoid
F4	Fuel Pump ECU- 40
F5	Spare
F6	Spare
F7	Spare
F8	ECU- 49
F9	ECU- 53
F10	HC-doser /spare
F11	Lambda sensor/spare
F12	WF sensor
F13	Empty/spare
F14	Engine power supply
F15	Engine power supply
F16	ECU- 60
F17	ECU- 57

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