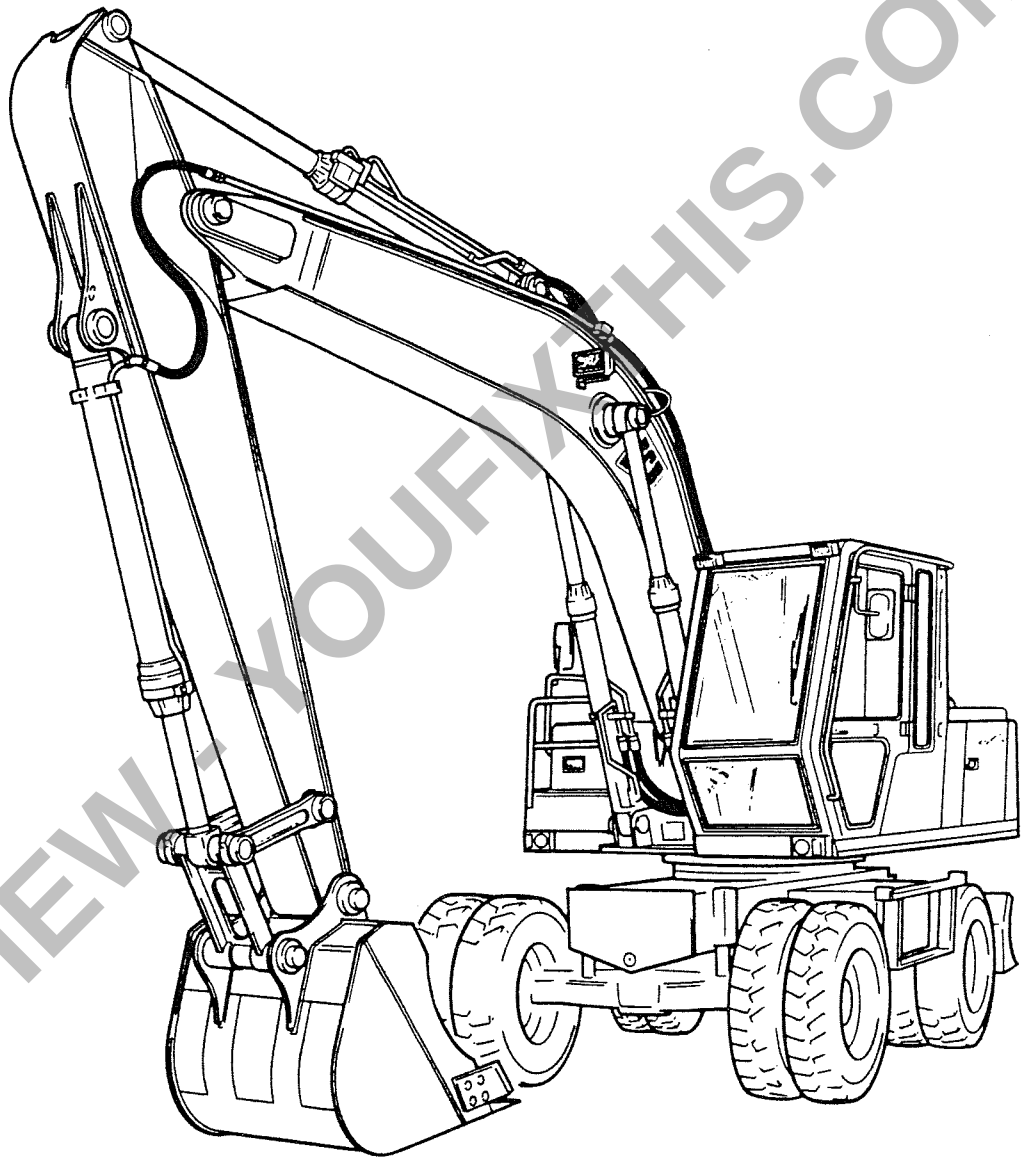
Operator Handbook

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JS130W . JS150W

⚠ THIS HANDBOOK MUST BE KEPT IN THE MACHINE AT ALL TIMES ⚠

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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

A wide range of optional attachments is available to increase the versatility of your machine. Only JCB approved attachments can be used 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 will be affected by the use of non-approved attachments and also the "CE" compliance, where applicable, will be invalidated.

2-4-1-13/2

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

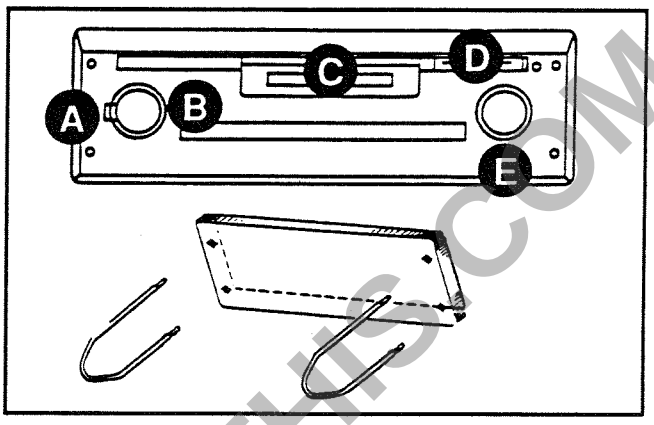
INT-1-2-3

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CAB RADIO

The radio, located in the storage section of the left console, operates only with the Starter Switch ON. It has the following controls:



A Tone control

B On/off switch and volume control

C Tuning scale

D Waveband buttons (FM, MW, LW)

E Tuning control

Removal

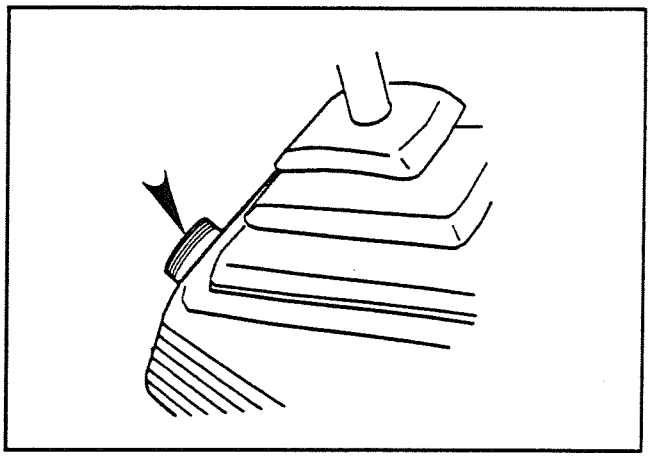
Insert the bows as shown, lock the bows in and press outwards to release the retaining catches. Pull out the radio.

Replacement

Push in the radio until it engages the retaining catches.

CIGAR LIGHTER

A cigar lighter is provided on the right console.

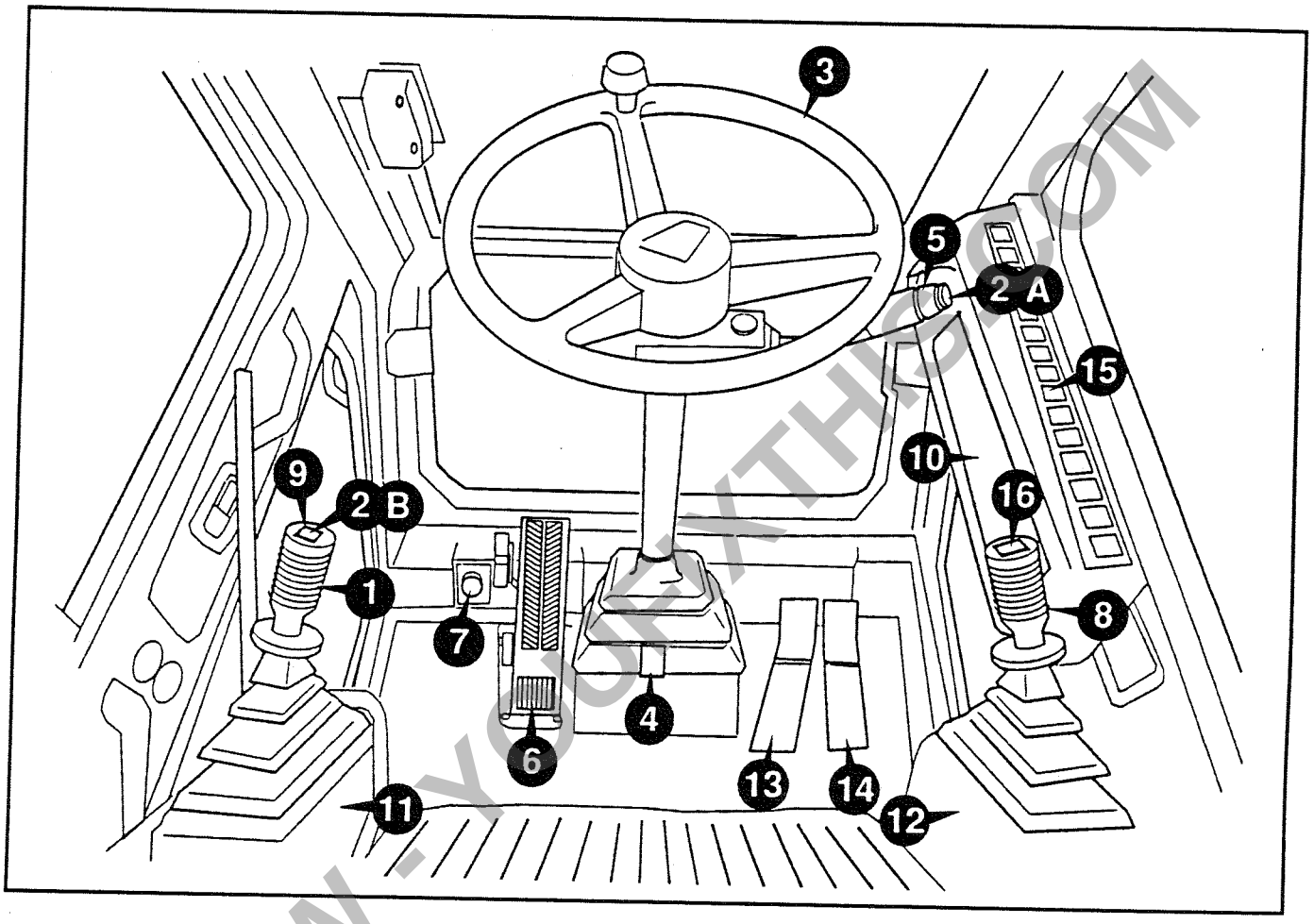


To operate the lighter, press it fully into its socket. When it has heated up sufficiently it will spring forward a little way out of its socket. It can then be removed for use. REMEMBER IT WILL BE HOT. Return the lighter to its socket after use.

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CAB LAYOUT



1 Excavator Joystick Control

Slew and dipper. See ***Excavating Controls.***

2A Horn Button

See ***Other Controls***

2B Horn Button (Not Germany)

3 Steering Wheel

4 Steering Column Lock Latch

5 Multipurpose Steering Column Switch

6 Brake Pedal

7 Gear Change Switch

See ***Driving Controls, and Switches and Instruments.***

8 Excavator Joystick Control

Boom and bucket. See ***Excavating Controls.***

9 Idle Switch

See ***Other Controls.***

10 Service Check Maintenance Monitor

See ***Switches and Instruments.***

11 Left Console

See ***Control Consoles.***

12 Right Console

See ***Control Consoles.***

13 Forward Drive Pedal

14 Reverse Drive Pedal

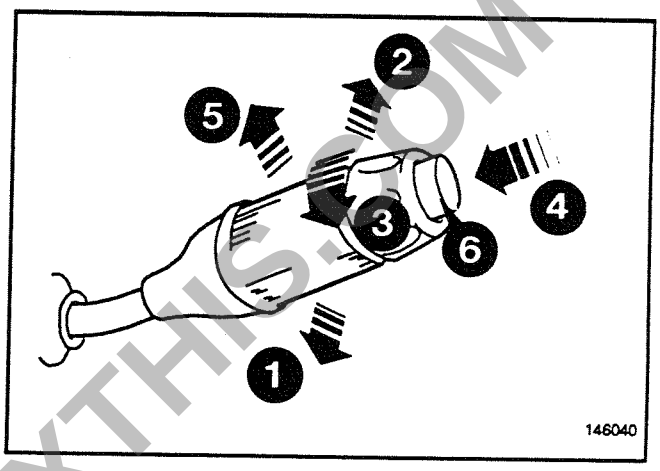
15 Touch-Sensitive Switch Panel

16 Attachments Switch

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SWITCHES AND INSTRUMENTS (continued)

Multi-Purpose Steering Column Switch



1 Direction Indicators (Right)

Pull the lever towards you to indicate a right turn. Switch the indicators off when you have completed the turn. Functions only with the starter switch at **ON.** (Cancels automatically when steering wheel centres).

2 Direction Indicators (Left)

Push the lever away from you to indicate a left turn. Switch the indicators off when you have completed the turn. Functions only with the starter switch at **ON.** (Cancels automatically when steering wheel centres).

3 Windscreen Wiper

Rotate the three position lever barrel switch to operate the windscreen wipers. Fully anti-clockwise is OFF, the middle position is INTERMITTENT wipe, and the fully clockwise position is CONTINUOUS wipe.

The wipers will self-park when switched off. Functions only with the starter switch at **ON**.

4 Windscreen Washer

Push the sleeve towards the steering wheel to operate the windscreen washer. Functions only with the starter switch at **IGN**.

5 Main Beam

Lift the lever to switch on the main beam. Lift the lever once more to reselect dipped beam. Functions only with sidelights and headlights selected to **ON**.

***Note:** Lifting the lever with main beam switched off will flash the main beam.*

6 Horn

Press to sound the horn. Functions only with the starter switch at **ON**.

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OTHER CONTROLS
(continued)

Attachments Control (continued)

5 **Grab Open/Close with Grab Rotate*/ Rockbreaker Combination** - Direct the bucket or rockbreaker supplies by means of the changeover valves as described in step 4. Control the required function as follows:

a For rockbreaker usage - Follow the instructions in step 1.

b For grab rotate - Follow the instructions in step 3.

* *Grab rotate is only available on T.A.B. (Triple Articulated Boom) machines.*

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STOPPING THE ENGINE

The engines in the JS Series machines are fitted with a turbocharger. The turbocharger runs at temperatures in excess of 700 °C (1300 °F) and can be damaged if the engine is stopped too soon.

Routine Stopping

1 Set the **Idle/F Select** switch to IDLE.

2 Turn the Throttle Dial fully anti-clockwise so that the engine runs at a low idle speed. Let the engine run at this speed for at least 5 minutes to allow the turbocharger to cool down.

3 Press the **Engine Shutdown** button or turn the **Starter Switch** to OFF.

4 Turn the **Starter Switch** to OFF (if not already done).

Note: *The engine can also be shut down by operating the* ***Emergency Stop Lever*** *(see* ***Other Controls****).*

Stopping Following Overheating

1 Set the **Idle/F Select** switch to IDLE.

2 Turn the **Throttle Dial** to mid-range and let the engine run at this speed until the **Coolant Temperature Gauge** reading begins to fall.

3 Gradually turn the **Throttle Dial** anti-clockwise as far as it will go while the engine cools down.

4 Carry out steps 3 and 4 of ***Routine Stopping***.

PARKING THE MACHINE

⚠ WARNING

Parking

An incorrectly parked machine can move without an operator. Follow the instructions in this handbook to park the machine correctly.

INT-2-2-4

Whenever possible, park the machine on dry and level ground.

1 Stop the Machine

Ensure the machine is stopped in a suitable parking place with the **Operation Control Switch** ON and the **Left Console** down.

2 Engage the parking brake. Latch the foot brake fully ON.

⚠ 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 near the machine could fall and be crushed by the attachments, or get caught in the linkages.

2-2-3-4

3 Lower the Bucket/Attachment to the Ground

Operate the excavator joystick to lower the bucket/attachment to the ground. Once it is on the ground, operate the joystick a little further so that it begins to take the weight of the machine.

4 Stop the Engine

See ***Routine Stopping***.

5 Remove the Starter Key

If you are going to leave the machine, remove the starter key.

6 Switch Off All Unnecessary Switches

If you are leaving the machine, make sure that all switches, including the **Operation Control Switch** are set to OFF*. Lift up the **Left Console** (see ***Control Consoles***). Tilt the steering column fully forward (see ***Adjusting the Steering Column***).

Note:** It is not necessary to switch OFF the switches on the* ***Touch Sensitive Panel *(see* **Touch Sensitive Panel, Switches***).*

7 Leave and Secure the Machine

Leave the cab (see ***Entering and Leaving the Cab***). Close and latch all windows and lock door. Make sure that the fuel filler cap is locked on.

8 Position Wheel Chocks (if supplied)

Place the chocks against the appropriate wheels to prevent movement if the brakes are inadvertently released.

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CLEANING THE MACHINE

Exterior

Clean the exterior of the machine using water and/or steam. If steam is used the machine must be completely greased afterwards. See ***Greasing.***

Pay particular attention to the cab windows. Make sure that the radiator grille is not blocked.

Interior

⚠ CAUTION

Never use water or steam to clean inside the cab. The use of water or steam could damage the on-board computer and render the machine inoperable. Remove dirt using a brush or damp cloth.

8-3-4-1

CHECKING FOR DAMAGE

Inspect steelwork for damage. Note damaged paintwork for future repair.

Make sure all pivot pins are correctly in place and secured by their locking devices.

Ensure that the steps and handrails are undamaged and secure.

Check for broken, cracked or crazed window glass. Replace damaged items.

Check all bucket teeth for damage and security.

Check all lamp lenses for damage.

Check that all safety decals are in place and undamaged. Fit new decals where necessary.

SEAT BELT

Checking The Seat Belt Condition And Security

⚠ WARNING

Replace the seat belt with a new one if it is damaged, if the fabric is worn, or if the machine has been in an accident. Fit a new seat belt every three years regardless of condition.

2-3-1-8

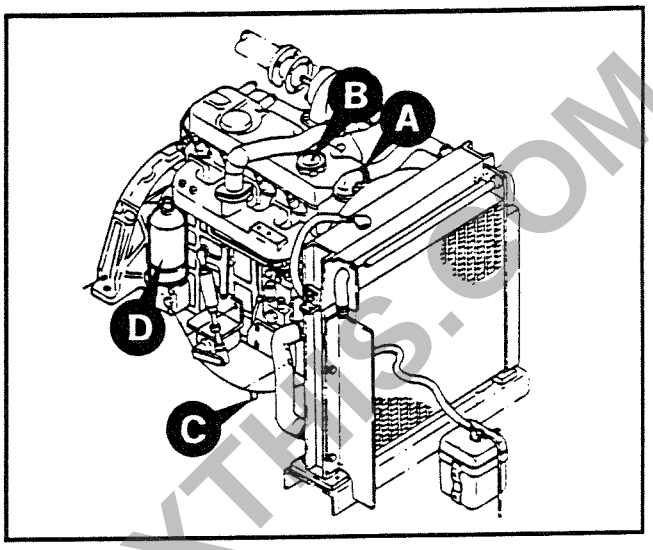
Inspect the seat belt for signs of fraying and stretching. Check that the stitching is not loose or damaged. Check that the buckle assembly is undamaged and works correctly.

Check that the belt mounting bolts are undamaged, correctly fitted and tightened.

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ENGINE OIL AND FILTER

Checking the Oil Level



1 Prepare the Machine

Park the machine on level ground. Lower the bucket to the ground.

2 Stop the Engine

3 Open the Engine Compartment

4 Check the Oil Level

Remove dipstick **A**. Oil should be between H and L marks. Add oil if necessary, through filler **B**. Use only the recommended oil, see ***Lubricants and Capacities***. Make sure that the dipstick and filler cap are secure.

Changing the Oil and Filter

1 Do steps 1 to 3 of Checking the Oil Level

2 Drain the Oil

Place an oil collecting container of suitable size beneath the engine sump drain point.

a Machines without a sump drain valve - remove the drain plug from location **C** (see ***Component Location Diagrams***). Let the oil drain out, then clean and refit the drain plug.

b Machines with a sump drain valve - obtain from the tool box the drain tube. Remove the sump drain valve dust cover from location **C**. In its place, after locating the drain tube inside the oil collecting container, firmly attach the drain tube to the adapter. The oil will automatically drain once the tube is connected. When the oil has drained completely, remove the tube and clean the drain valve and the valve dust cover. Refit the dust cover.

3 Change the Filter

a Unscrew the filter canister **D**. Remember that the filter will be full of oil.

b Clean the filter heads **D**.

c Smear the seal on each new filter with oil. Screw in the new filter canister hand tight only.

4 Fill the System

Fill the engine with new oil through the filler **B**. See ***Lubricants and Capacities*** for type and amount. Wipe off any spilt oil. Check for leaks. Make sure the filler cap is correctly refitted.

5 Check for Leaks

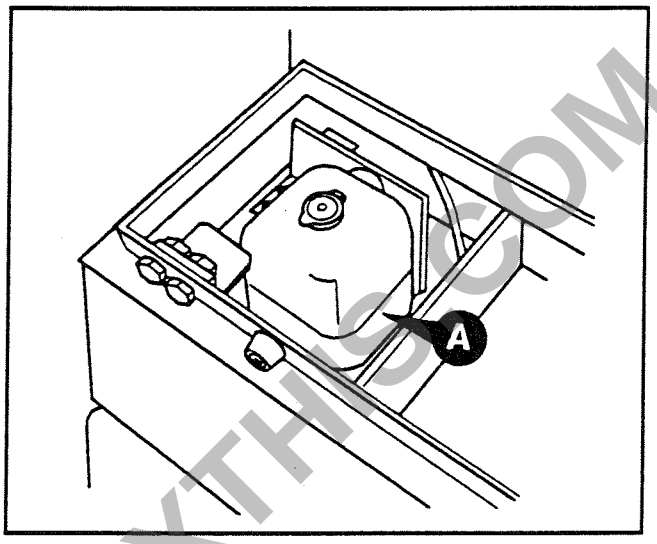
Before starting the engine, 'motor' the engine with the **Engine Shutdown** control pressed down until the oil pressure warning light goes out.

Check for leaks.

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WINDSCREEN WASHER

Fill the windscreen washer bottle **A** with clean water. In freezing weather add a de-icing fluid. ***Do not use engine coolant antifreeze.***



OBTAINING REPLACEMENT PARTS

We recommend you fit only JCB Genuine Parts. A **Wheeled Excavator Parts Book** will help you identify parts and order them from your JCB distributor.

Your distributor will need to know the exact identity of your machine. The machine's serial number is stamped on a data plate at the front of the mainframe. (See ***Identifying Your Machine***.) The data plate also shows the engine serial number. But remember if the engine has been changed the serial number on the data plate may be wrong. Check on the engine itself.

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LIFTING (CRANING) REGULATIONS AND SAFE WORKING LOADS

Lifting Regulations

The Factories Act Construction (Lifting Operations) Regulations 1961 defines 'Excavators' as 'Lifting Appliances'. As such, the JCB Wheeled Excavator is subject to these regulations both when using the machine as an earthmover, and specifically when using the machine as a crane.

The owner and/or operator must make sure that he fully understands the laws and regulations concerning the use of the JCB Wheeled Excavator as an earthmover and as a crane. Consult your JCB Distributor for further information.

If your machine has not been fitted with an approved lifting point such as hook or shackle then it must not be used as a crane. Use the machine for earthmoving purposes only. If your machine is not equipped to be used as a crane there will be a decal in the operator's cab which says:

⚠ WARNING

Do not use this Excavator as a 'crane'. Consult U.K. Lifting Regulations.
8-5-1-1

Your machine may be used as a crane if it has been fitted with an approved lifting point such as a hook or shackle, if it has been tested, plated and certified for its safe working load, and if all other regulation requirements have been met *(consult your JCB distributor).*

Safe Working Loads

⚠ WARNING

The safe working load indicated on lifting accessories such as chains etc. is not the safe working load of the machine.
8-5-1-2/1

When loads are to be lifted by the excavator, a bucket must be fitted.

The maximum load which may be lifted depends on the equipment fitted to the excavator and the laws and regulations in force at the time and in the country in which the excavator is being used.

If your machine is equipped to be operated under "Exemption Certificate" rules, your Exemption Certificate will specify the Safe Working Loads.

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