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Warranty

Read this handbook carefully before operating the machine. Maintenance procedures, operating and driving instructions are included in this publication.

If a defect or failure occurs on the machine during the warranty period the matter must be referred to the dealer who supplied the machine. Under no circumstances must the machine continue working, otherwise serious damage may occur.

The terms of the warranty state that only genuine JCB parts and lubricants as specified must be used on the machine. If these terms are not strictly adhered to, the WARRANTY WILL BE VOID. Full details of the terms of warranty are printed towards the back of this handbook.

The manufacture's policy is one of continuous improvement. The right to change the specification of machines without notice is reserved. No responsibility will be accepted for discrepances which may occur between specifications of machines and the descriptions contained in the publications.

Registration Card

The customers Registration Card must be completed and returned to JCB Service to make sure the machine is covered by warranty.

Dealer Service Vouchers

The 100 hour Dealer Service Vouchers must be returned to the dealer at the stated time - if not the warranty could be void. All subsequent services to the above, within the warranty period (i.e. 250, 500 and 1000 hours as applicable), must be done in accordance with the operator's handbook. It is recommended that only recognised JCB dealers perform these services.

Service Contract

To keep your machine working efficiently it is essential that it is properly and regularly maintained in accordance with the service schedules included in this handbook.

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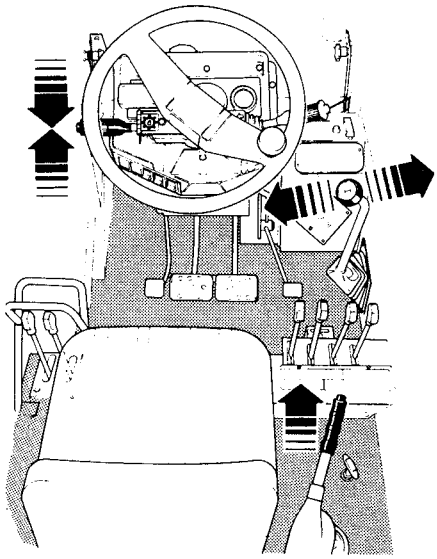
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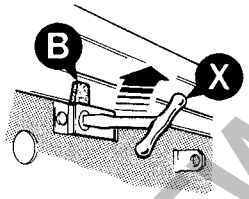
RADIATOR GRILLE

Opening the Grille

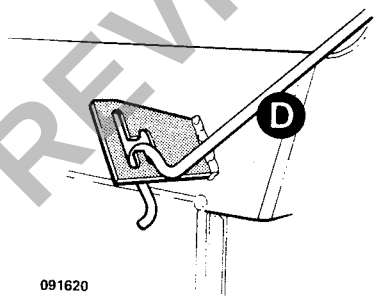
1 Apply the parking brake, put the transmission in neutral and stop the engine.



2 Release latch **B** *(if fitted)* using key **X**.



3 Lift the grille and engage strut **D** in the slot.



Closing the Grille

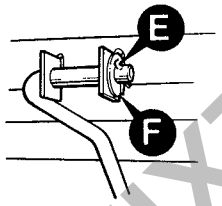
Reverse the opening procedure.

Removing the Grille

1 Apply the parking brake, put the transmission in neutral and stop the engine.

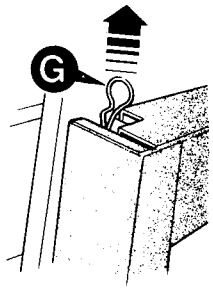
2 Open the grille as described opposite.

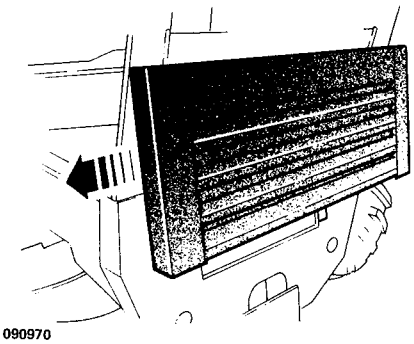
3 Remove split pin **E** and washer **F**.



4 Support the weight of the grille and remove the strut.

5 Remove clip **G**. Slide the grille to the left to remove it completely. Refit clip **G**.





Fitting the Grille

Reverse the removal procedure.

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ELECTRICAL SYSTEM

Type	12 volt Negative Earth
Battery	12 volt Cold crank amps for one minute to 1.4 volts/cell at -18 °C (0 °F) - 410 to 420 *(standard battery)* - 550 to 585 *(optional heavy duty battery)* Reserve capacity (mins) for 25 amp load - 170 to 185 *(standard battery)* - 220 to 230 *(optional heavy duty battery)*
Alternator	43 amp
Light bulbs and fuses	See Page 77
Safe load indicator override light	2.2W

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FUEL SYSTEM

Bleeding

If the engine fails to start, or misfires, or if any part of the system has been disconnected or emptied, the system will need bleeding.

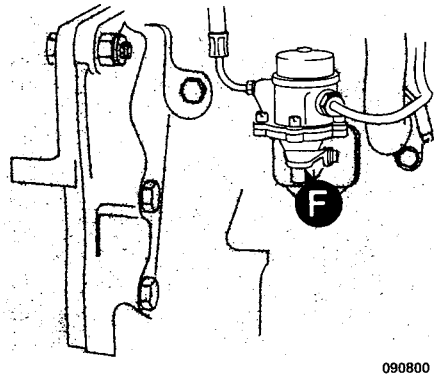
1 Raise the engine cover (Page 62)

2 Loosen screw **C** on the filter. Operate lift pump lever **F** until air-free oil flows from the union at **C**. Tighten screw **C**.

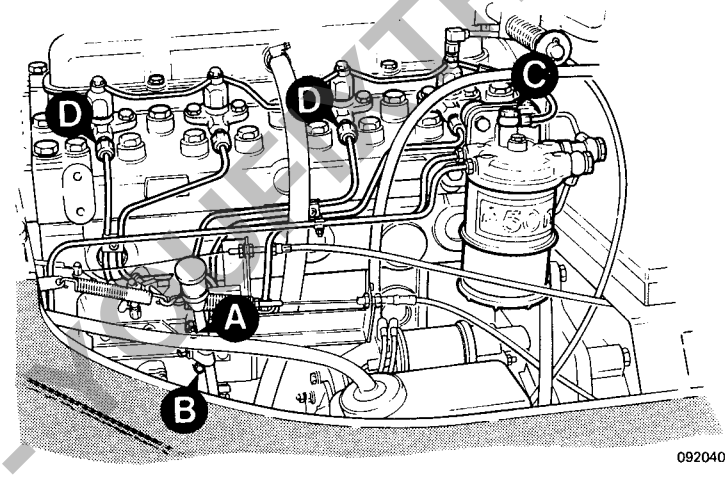
3 Loosen union **E** on the induction manifold. Operate the lift pump lever **F** until air-free oil flows from the union. Tighten the union.

4 Loosen two of the unions at **D**. Push the engine stop control to the 'run' position; open the throttle. Turn the engine until air-free fuel flows from the unions. Tighten the unions.

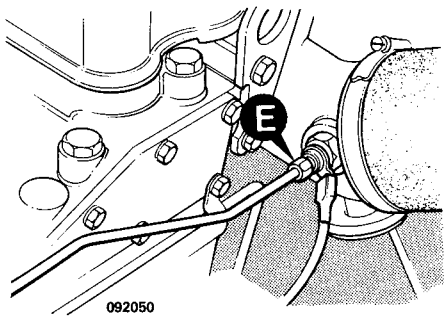
5 Loosen screws **A** and **B**. Operate the lift pump lever **F** until air-free fuel flows from the the screws. Tighten screw **B**, followed by screw **A**.



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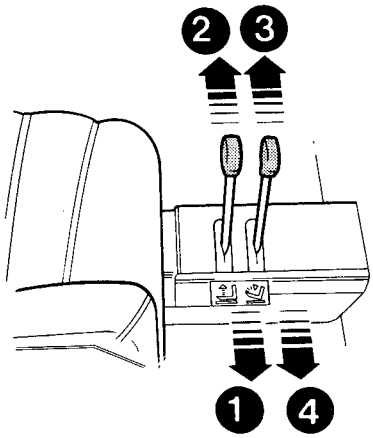
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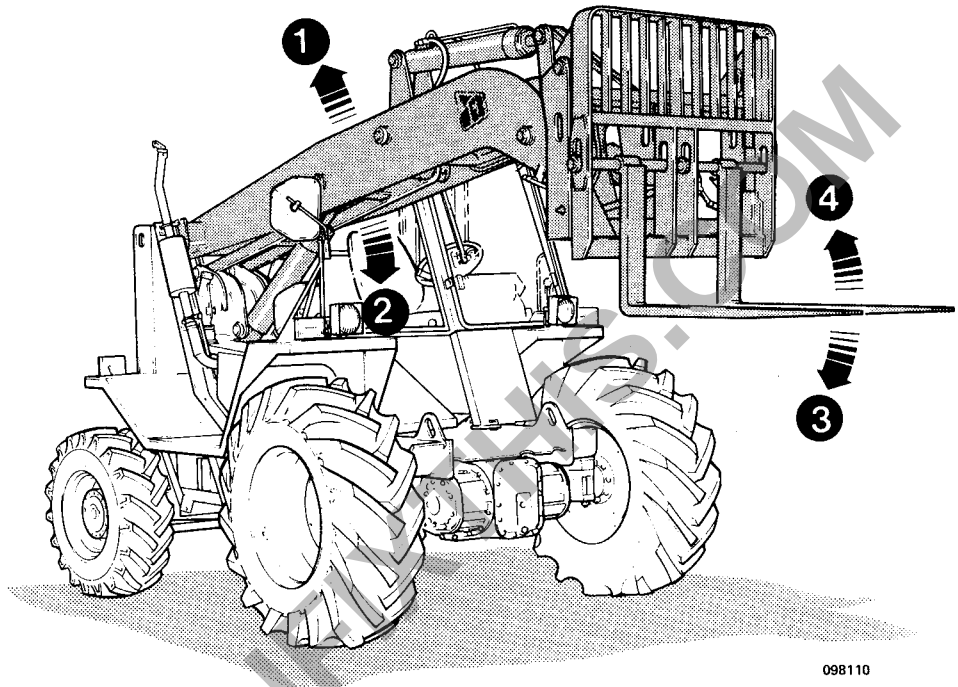
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BOOM/CARRIAGE CONTROLS (520M, 525M, 540BM)

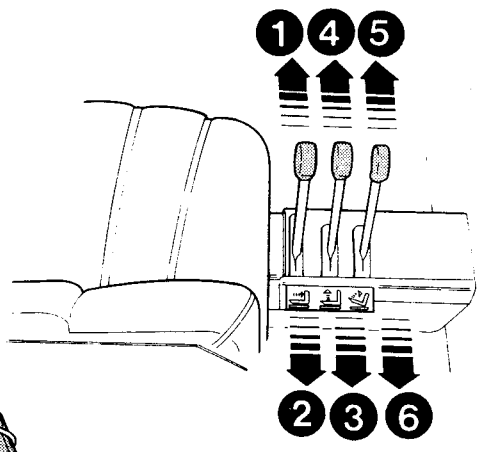
1 Raise boom
2 Lower boom
3 Tilt carriage forward
4 Tilt carriage back





BOOM/CARRIAGE CONTROLS (520, 525B, 525B-HL, 530B, 540B)

1 Extend boom
2 Retract boom
3 Raise boom
4 Lower boom
5 Tilt carriage forward
6 Tilt carriage back



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This handbook provides information for the following machines :-

520 Farm Special.....	From Machine No. 502201
520M.....	From Machine No. 560401
520-2/4.....	From Machine No. 502201
520-H-2/4.....	From Machine No. 502201
525 (France Only).....	From Machine No. 272701
525B Farm Special.....	From Machine No. 272701
525B-2/4.....	From Machine No. 272701
525B-HL-2/4.....	From Machine No. 272701
530B-2/4.....	From Machine No. 580601
530B-HL- 2/4.....	From Machine No. 580601
540BM-2/4.....	From Machine No. 274201

Note *- 520 FARM SPECIAL*
For information on the 520 Farm Special, refer to the 520 Series unless otherwise stated.

Note *- 525B FARM SPECIAL*
For information on the 525B Farm Special, refer to the 525 Series unless otherwise stated.

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JUMP - STARTING THE ENGINE

⚠ WARNING

Do not try to charge a frozen battery. It could explode.

1 Engage the parking brake.

2 Set all switches in the cab to Off.

3 Connect the booster cables.

4 Do the Pre-start Procedure (See Page 25).

5 Start the engine (See page 25).

6 Disconnect the booster cables

⚠ WARNING

Do not connect the booster supply directly across the starter motor. This would bypass the Neutral Safety Switch and allow the machine to be started in gear.

Connecting Booster Cables

On the 530B-HL, gain access to the battery by raising the radiator grille. On all other models, open the bonnet.

1 Connect one cable between the machine battery and booster supply positive terminals, connecting to the machine battery first.

2 Connect the other cable, first to the machine frame *(away from and below the battery)* and then to the booster supply negative terminal.

Disconnecting Booster Cables

⚠ WARNING

Keep clear of rotating parts in the engine compartment.

1 Disconnect the negative cable from the machine frame, then disconnect it from the booster supply.

2 Disconnect the other cable from the machine battery, then from the booster supply.

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SERVICE SCHEDULES
(continued)

Every 1000 Operating Hours

Do the Daily, 50, 100, 250 and 500 hour jobs plus:-

CHECK

1 * Engine compression.
2 * Hydraulic main relief valve setting.
3 * Hydraulic auxiliary relief valve setting.
4 * Steering relief valve setting.
5 * Operation of hose burst check valves (Page 76).
6 * Transmission clutch oil pressures.

CHANGE

2 Outer air cleaner element (Page 67).
3 Front axle oil (Page 70).
4 Rear axle oil (Page 70).
5 Rear axle hub oil - 4WD (Page 71).
6 * Brake fluid (Page 71).
7 Syncro Shuttle oil (Page 66).

CLEAN

8 Syncro Shuttle oil strainer (Page 66).

GREASE

9 Boom wear pad runways (Page 86).
10 Inner boom hoses.

Note:
*Jobs which should be done by a specialist are indicated by *.*

Every 2000 Operating Hours

Do the Daily, 50, 100, 250, 500, and 1000 hours plus:-

CLEAN

1 * Fuel injectors and test.

GREASE

2 * Extension ram bushes *(repack).*

CHECK *(Engine Stopped)*

3 Engine valve clearances and lubrication.
4 Battery electrolyte level.

CHANGE

5 Air filter inner element (Page 67).
6 * Brake system fluid.
7 * Hydraulic system fluid and clean suction strainer.

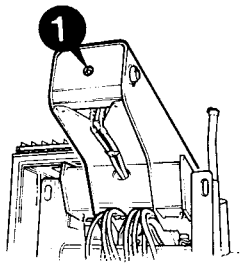
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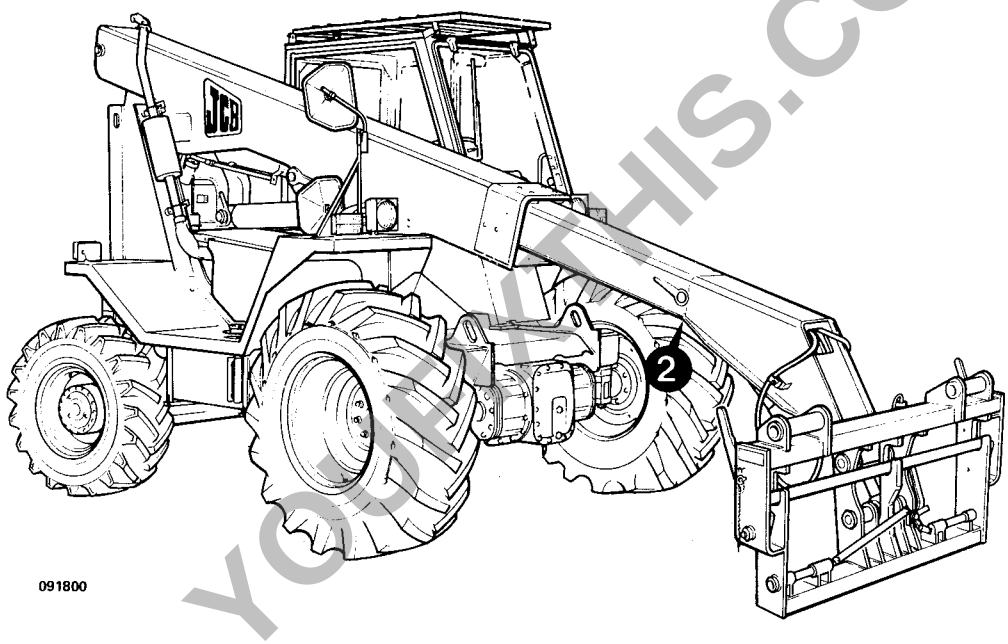
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GREASING (50 HOURS)
(continued)

Boom Extension Ram 520, 525B-HL, 530B, 540B (2-Stage Boom)

2 Grease Points.

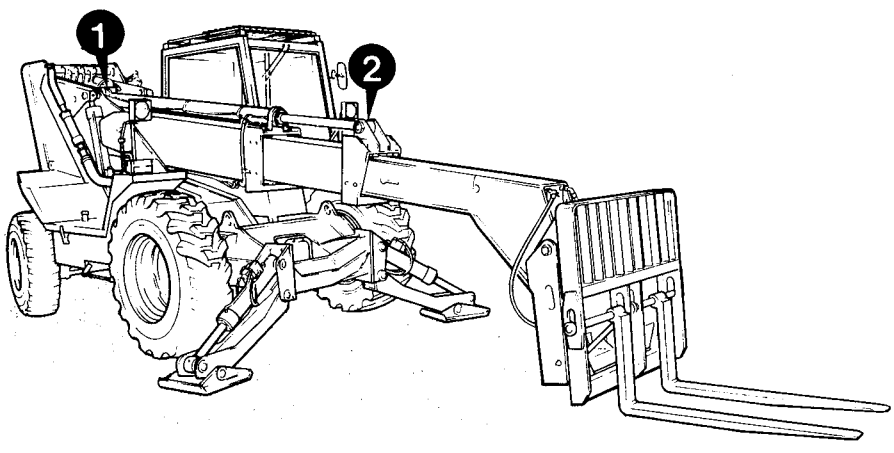




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Boom Extension Ram 530B-HL (3 Stage Boom)

4 Grease Points.



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