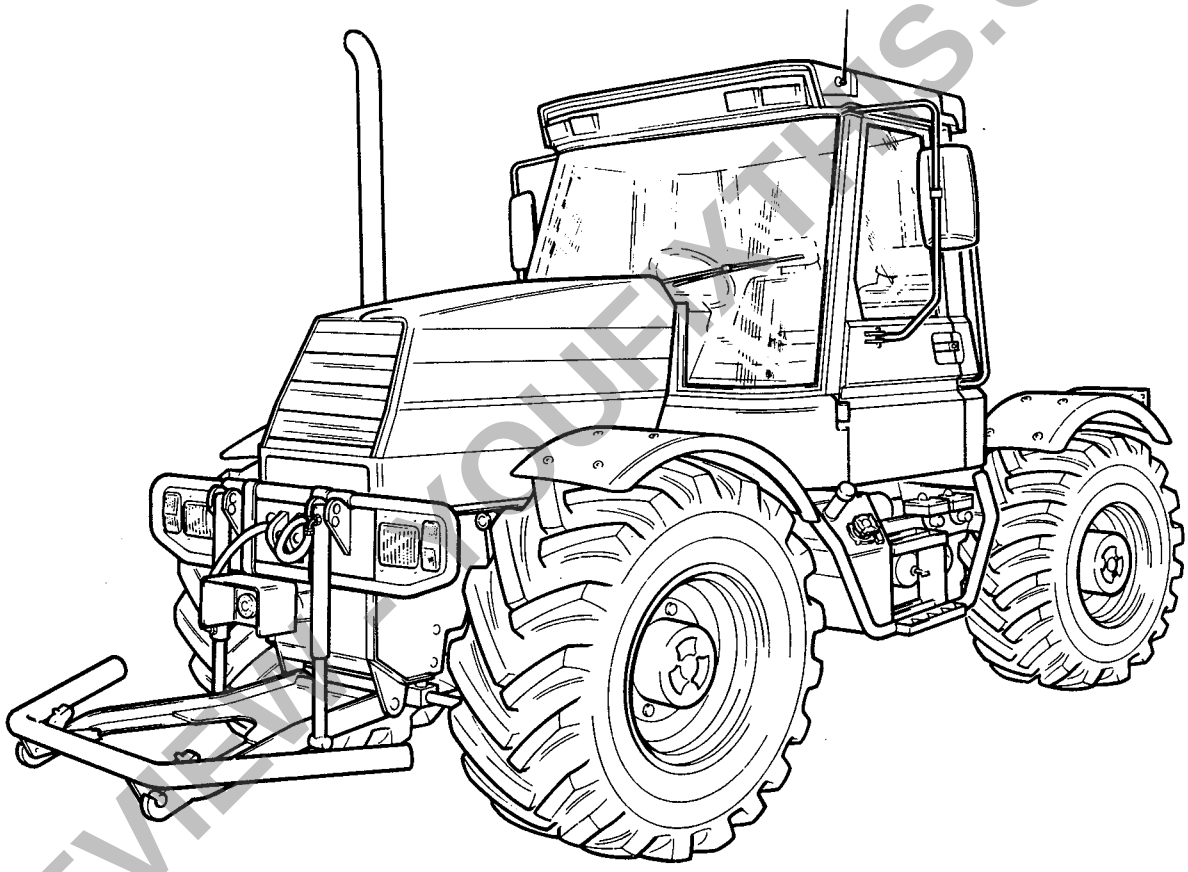
Operator Handbook

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Produced by the Technical Publications department of JCB Service

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FASTRAC 125 & 145T

⚠ 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

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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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SWITCHES

Column-mounted Switch

1 **Direction Indicators** (Left)
Pull the lever towards you to indicate a left turn. Switch the indicators off when you have completed the turn. Functions only with the starter switch turned on.

2 **Direction Indicators** (Right)
Push the lever away from you to indicate a right turn. Switch the indicators off when you have completed the turn. Functions only with the starter switch turned on.

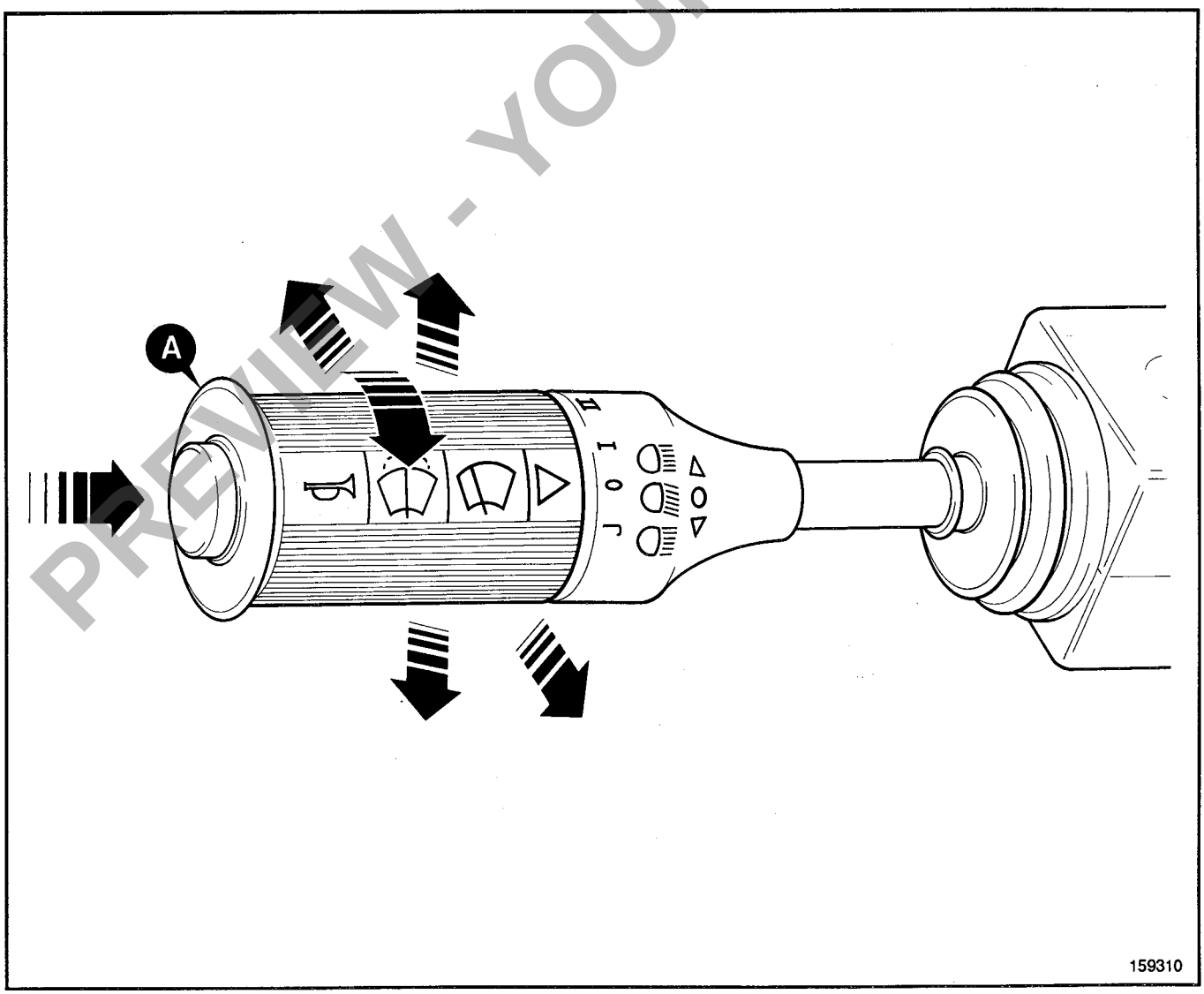
3 **Front Windscreen Wiper**
Rotate the lever barrel to switch the windscreen wiper on and off. The following functions are available (only with the starter switch turned on).

Switch Position	Function
J	Intermittent Wipe
I	Slow
II	Fast
0	Off (wiper self-parks to bottom of screen)

4 **Front Windscreen Washer**
Press the collar **A** to operate the windscreen washer. Functions only with the starter switch turned on.

5 **Horn**
Push the button towards the steering wheel to operate the horn. Functions only with the starter switch turned on.

6 **Headlight/Mainbeam**
Push the lever down for main beam. Centre position is dipped beam. Functions only with the side/head lights on. Pulling the lever towards you flashes the main beam when the side/headlights are switched either on or off.



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INSTRUMENT PANEL
(continued)

Instruments

14 Hourmeter

Records the total running time of the engine. Use it to keep a check of running hours during maintenance intervals.

15 Tachometer

Engine speed (RPM) is given by the indicated speed x 100.

16 Water Temperature Gauge

Indicates the working temperature of the engine coolant. If the indicator needle rises to the red danger zone on the gauge stop the machine immediately and investigate the cause of overheating.

17 Fuel Contents Gauge

Indicates the amount of fuel in the fuel tank. When the needle is indicating in the red sector, refuel as soon as possible.

18 Speedometer

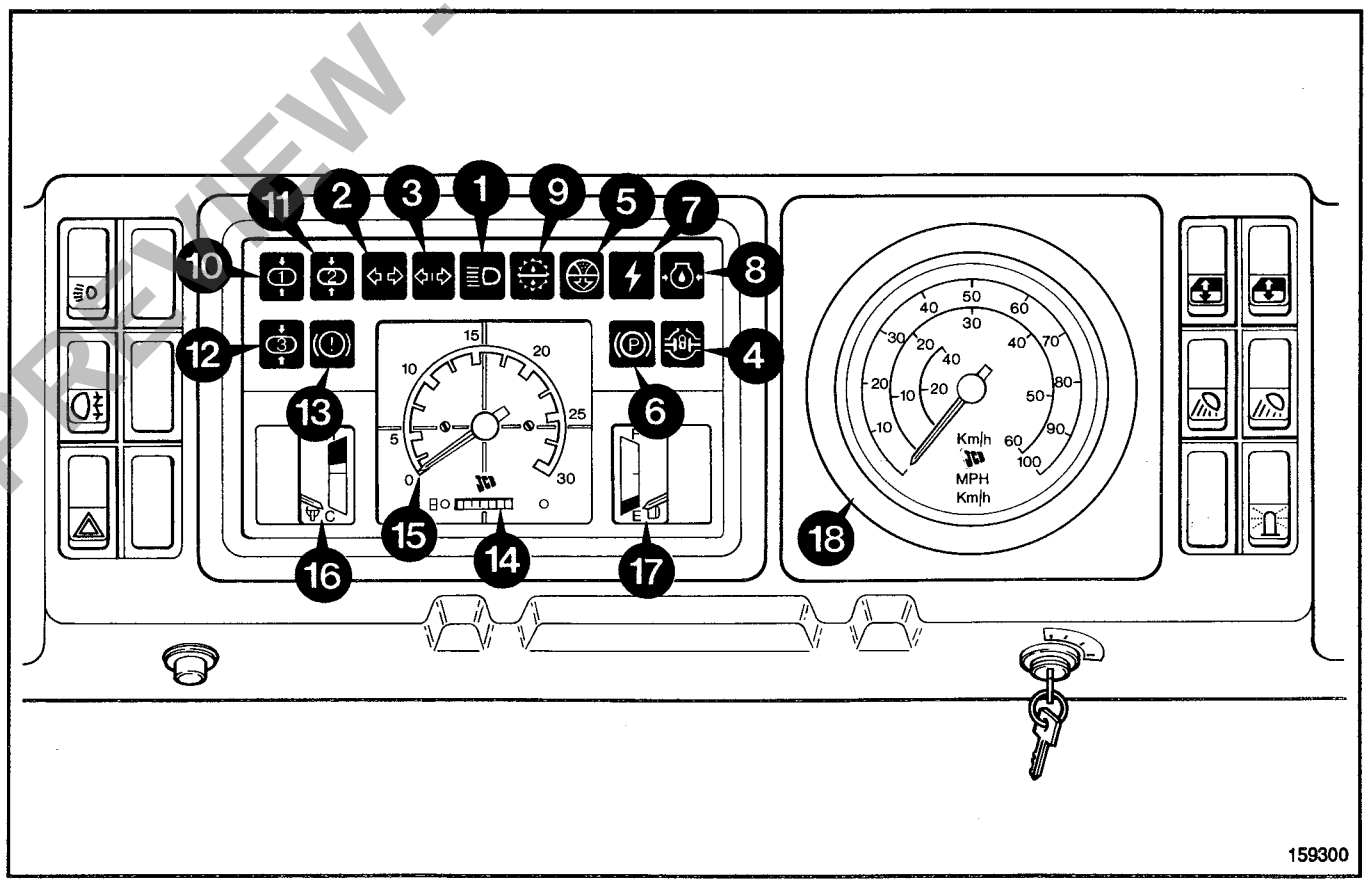
Indicates the road speed in miles per hour (MPH) and kilometres per hour (km/h)

Note: *The large scale on the speedometer shows the speed when using high speed tyres (445/70 R 24 or 495/70 R 24). The red scale shows the speed when using 16.9 R 30 high traction tyres.* ***When using these tyres do not operate at speeds beyond the red scale.***

⚠ WARNING

High traction tyres available as optional equipment have maximum permitted speeds below the maximum speed of the vehicle. Brake efficiency is slightly reduced and stopping distance is increased when these tyres are fitted. They will suffer damage if operated at speeds higher than those recommended and may endanger life.

13-3-1-5

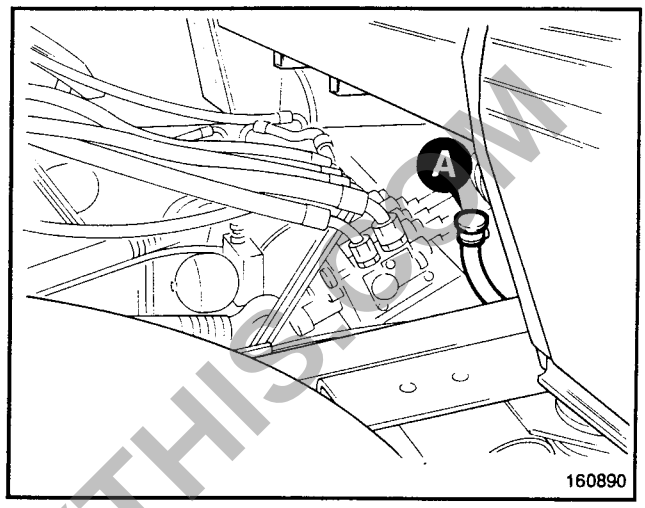


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PTO AND RANGE GEARBOXES

Checking the Oil Level



Note: *The PTO and range gearboxes both use the same oil and are linked by balance pipes. The oil for the 6 speed gearbox is separate.*

1 Park the machine on firm, level ground. Engage the parking brake. Lower the equipment. Stop the engine.

2 Check that oil is at the top mark on dipstick **A**.

Add recommended oil, if necessary, at dipstick/filler **A**. See ***Fluids, Lubricants and Capacities*** for recommended oil.

Note: *Do not overfill as this would cause oil to be forced past the oil seals and out of the gearboxes .*

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BRAKES
(continued)

Checking and Renewing Foot Brake Pads

1 **Prepare the Machine**

Park the machine on firm, level ground. Apply the parking brake. Lower any mounted implements to the ground. Jack up the machine and support it on axle stands. Remove the road wheels.

***Note:** Disc brakes are fitted to all four wheels. The illustration shows only the left hand rear brake but the other brakes are similar.*

⚠ WARNING

Oil on the brake disc will reduce brake effectiveness. Keep oil away from the brake disc. Remove any oil from the disc with a suitable solvent. Read and understand the solvent manufacturer's safety instructions. If the pads are oily, fit new ones.
2-3-2-3/2

2 Check the thickness of all the friction pads **A** and the condition of each disc **X**. If the friction material is 3 mm (0.12 in) or less on any of the pads, fit a new set. If the surface of the disc is badly warped or pitted, you must consult your JCB distributor.

⚠ WARNING

Always renew brake pads and locating pins in complete axle sets, using genuine JCB parts, otherwise braking will be unsafe.
13-3-1-10

⚠ WARNING

Brake pads generate dust which if inhaled, may endanger health. Wash off the caliper before commencing work. Clean hands thoroughly after work.
13-3-1-3

3 Tap out pad locating pins **B** in direction of arrow. Retain pins and anti-rattle springs **C** for re-use.

4 With a suitable lever, force the worn pads back against the pistons. Remove the pads. Force both pistons fully back, taking care not to damage the seals.

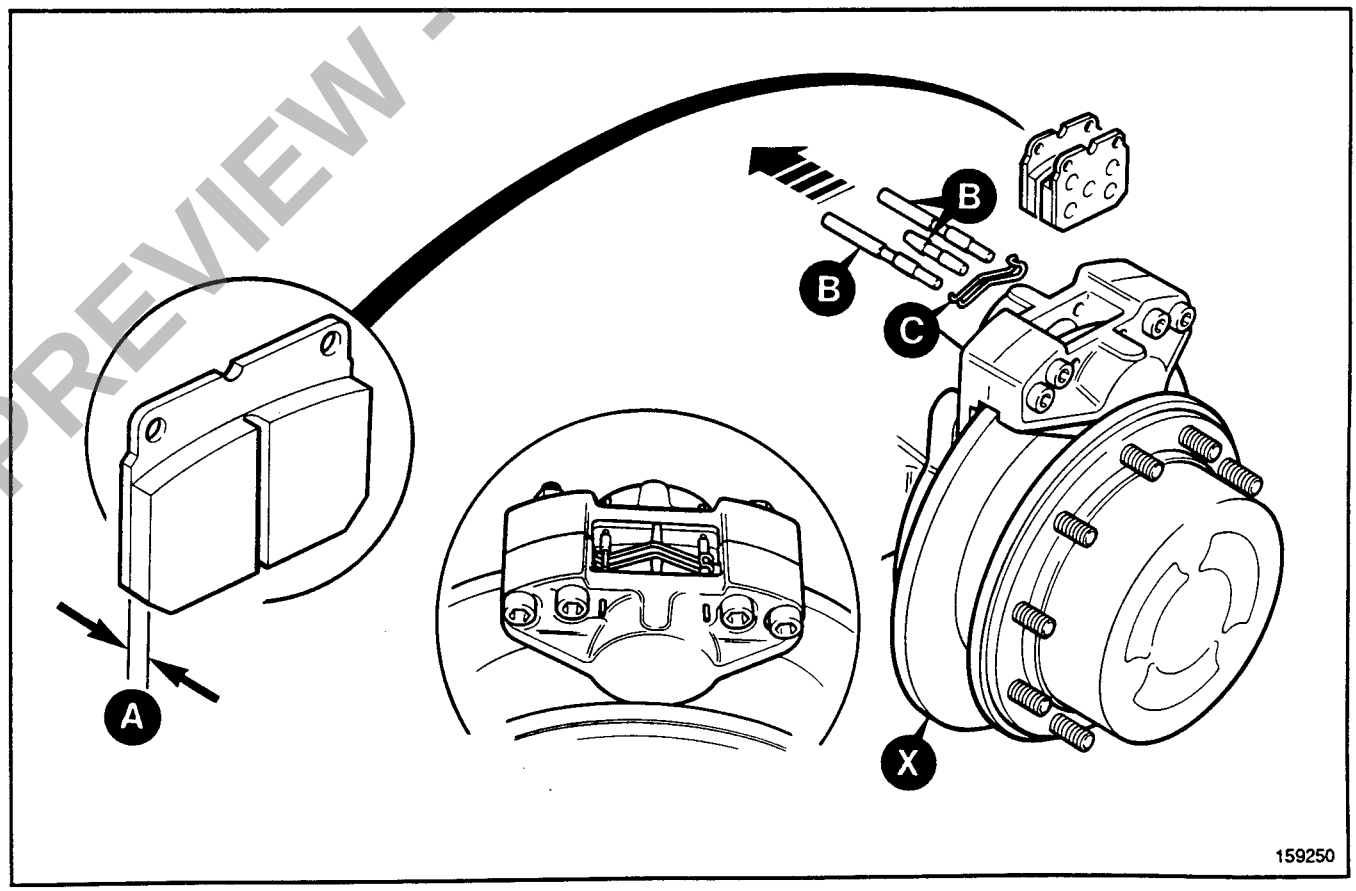
5 Ensure that the seals are not leaking and that both pistons move freely in the caliper. If not in perfect condition, the caliper must be repaired by your JCB distributor.

6 Slide in the new pads and fit the locating pins and anti-rattle springs

7 Refit the wheels and tighten wheel nuts to 500 Nm (370 lbf ft).

8 Before driving the machine, start the engine, wait for air pressure to rise and pump the brake pedal until the brakes are felt to engage at the middle of the pedal travel range.

9 Try to avoid heavy braking for the first 50 hours of operation after fitting new pads.



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FUEL SYSTEM

Cleaning the Lift Pump

1 Stop the Engine

Stop the engine and remove the key.

2 Disconnect the Battery

3 Open the Bonnet

⚠ WARNING

Hot oil and engine components can burn you. Make sure the engine is cool before doing this job.
2-3-3-2

4 Remove and Wash the Fuel Pump Gauze

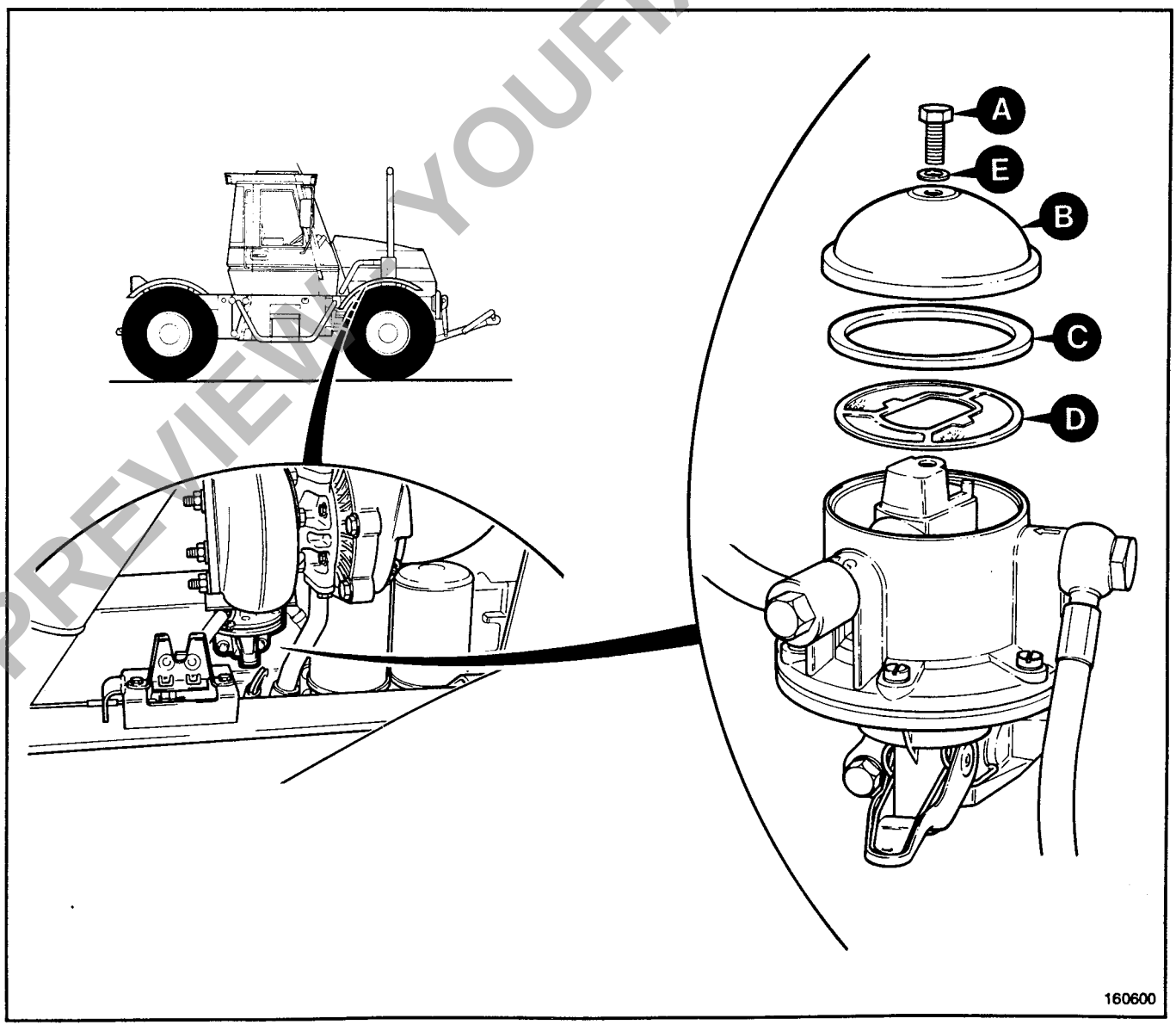
Unscrew bolt **A**. Lift off the cap **B**, sealing ring **C** and gauze **D**. Wash the gauze with clean fuel and a soft brush.

5 Refit the Gauze

Refit the gauze into the pump, making sure it is seated correctly. Fit a new sealing ring **C**, then fit the cap. Fit a new sealing ring **E** to the bolt. Fit and tighten the bolt only enough to seal the joint. DO NOT overtighten the bolt as this will distort the seal and cause leaks.

Check for leaks.

6 Bleed the Fuel System.



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SERVICE SCHEDULES
(continued)

Every 500 Operating Hours or Six Months whichever occurs first

Do the Daily jobs through to 250 hours plus:

Clean

1 Fuel lift pump gauze (page **111**).

Check (Engine Stopped)

3 Battery electrolyte level (if battery is not sealed for life).
4 Exhaust system security.
5 *Engine mounting bolts for tightness.**
6 Front wheel alignment (toe-in)

Check (Engine Running)

7 *Idling speed.**
8 *Max. no load engine speed.**
9 *Engine compression**
10 *Suspension ride height**

Change

11 Hydraulic fluid filter element (page **126**).
12 Transmission oil filter (page **115**).
13 Fuel filter (2 elements - page **109**).

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

Every 1000 Operating Hours or Yearly whichever occurs first

Do the Daily jobs through to 500 hours plus:

Check (Engine Stopped)

1 ROPS structure (page **88**).
2 *Quality of coolant.**
3 *Air conditioning state of charge.**
4 *Transmission low pressure circuit pressure maintaining valve setting.**

Change

5 Outer air filter element (page **99**).
6 6 speed gearbox oil (page **117**).
7 PTO/Range gearbox oil and clean strainer (page **114**).
8 Front axle oil (page **118**).
9 Front hub oil (page **119**).
10 Rear axle oil (page **121**).

Every 2000 Operating Hours or 2 Years whichever occurs first

Do the Daily jobs through to 1000 hours plus:

Clean

1 *Hydraulic fluid suction strainer.**
2 *Fuel injectors (and test).**

Check (Engine Stopped)

3 *Rear suspension gas spring pressure.**
4 *Engine valve clearances and lubrication.**

Change

6 Inner air filter element (page **100**).
7 Coolant (page **104**).
8 *Brake system fluid.**
9 *Clutch system fluid**
10 *Hydraulic fluid.**

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

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REAR 3-POINT LINKAGE
MECHANICAL CONNECTIONS & ADJUSTMENT

Linkage Type

The three-point linkage supplied is either Category 2 or Category 3 with hook type link ends.

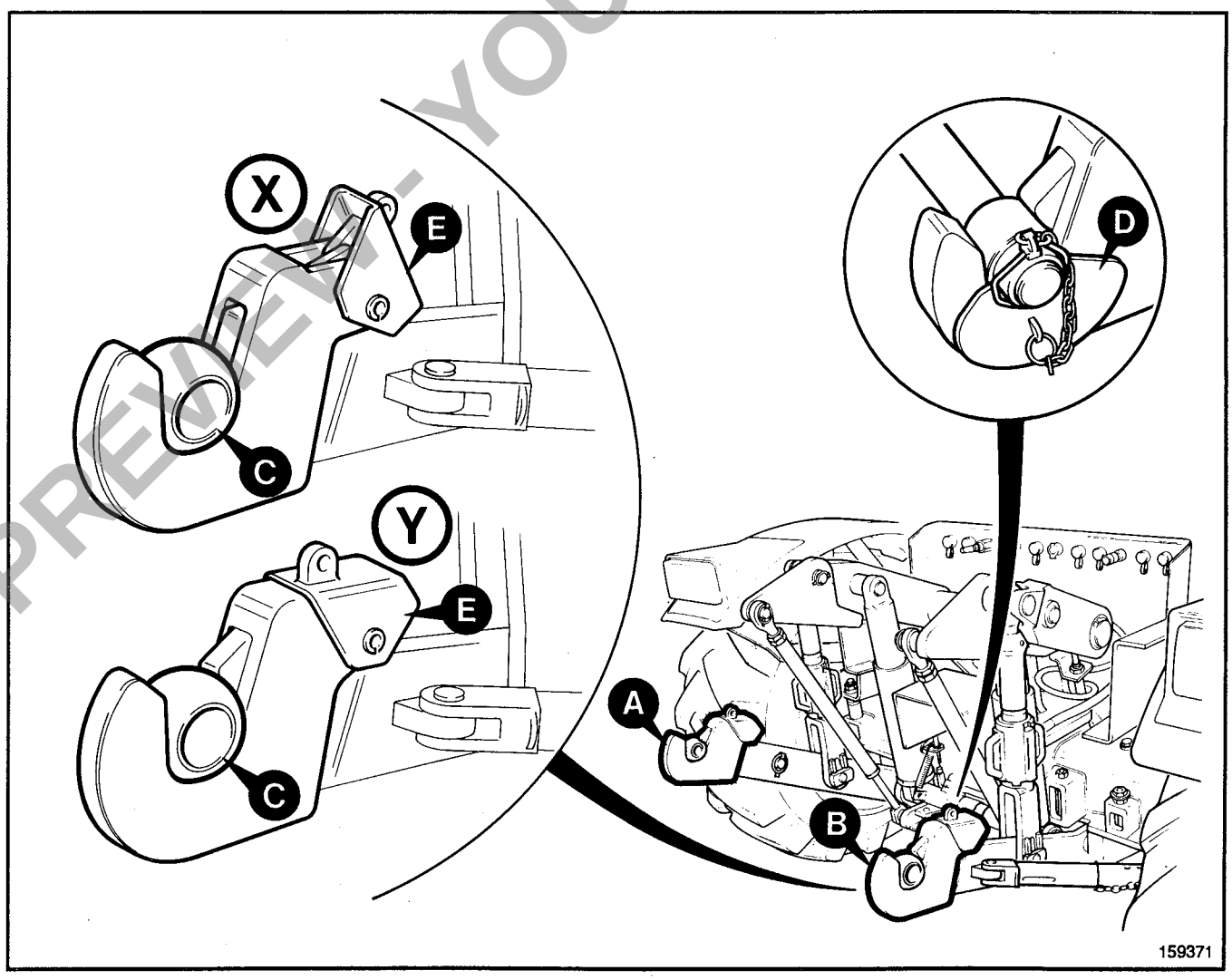
Implement Attachment

Plain balls **C** and those with guide cones **D** are available to suit the variety of implement hitch pins.

The hooks **A** and **B** engage from underneath onto balls **C** or **D** which have previously been fitted to the implement hitch pins.

It may be found easier to lock open the latches **E** as at **X** whilst hitching takes place. Always ensure that the latches are snapped shut as at **Y** before using the implement.

To enable unlatching from the cab, cables could be fitted to the latches but these are not supplied with the machine.



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ENGINE COOLING SYSTEM
(continued)

Draining the Coolant

⚠ WARNING

Make the machine safe before getting beneath it. Do the following: Park on level ground. Engage the parking brake. Lower any mounted implements to the ground. Stop the engine, remove the starter key, disconnect the battery. Chock the wheels
13-3-1-1

⚠ WARNING

The cooling system is pressurised when the coolant is hot. Hot coolant will burn you. Make sure the engine is cool before checking the coolant level or draining the system.
2-3-3-3

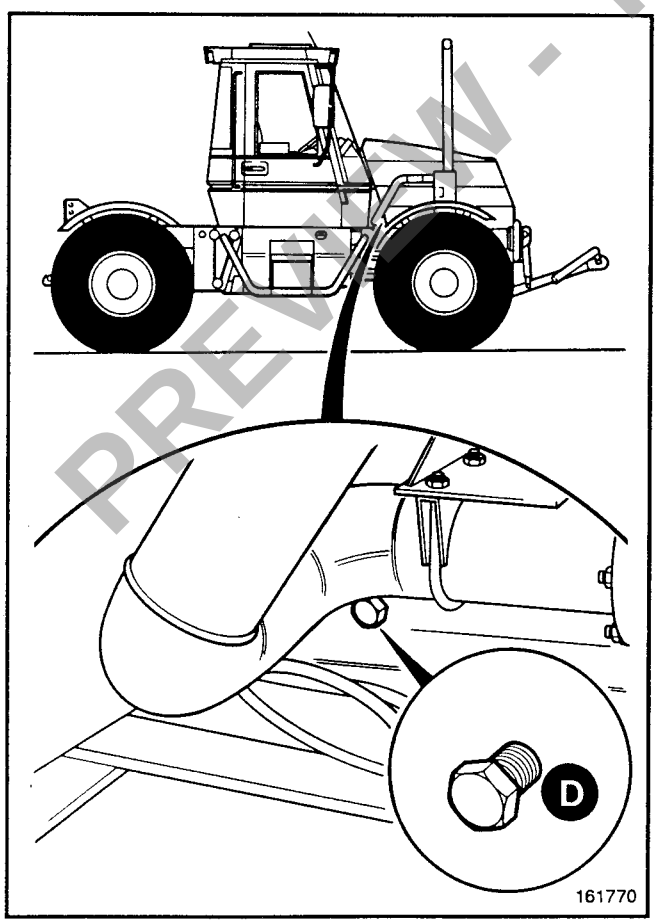
1 Open the bonnet

2 Remove the Filler Cap

Carefully loosen cap **B** (see previous page). Let any pressure escape. Remove the cap.

⚠ CAUTION

Keep your face away from the drain hole when removing the drain plug.
2-3-3-4



3 Drain the Cylinder Block

Remove the drain plug **D** and let the coolant drain out. Make sure the drain hole is not blocked.

4 Drain the Radiator

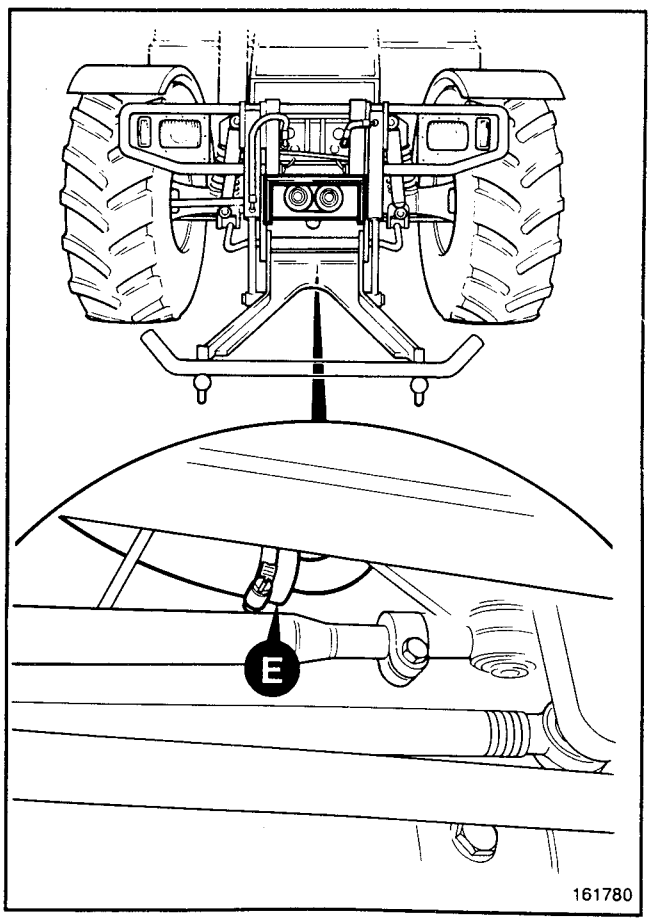
Unfasten the hose clip and disconnect one end of hose **E**. Let the coolant drain out.

⚠ CAUTION

Keep your face away from the hose while disconnecting it.
5-3-3-1

5 Flush the System with Clean Water

Clean and refit drain plug **D**. Re-connect hose **E**.



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