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Safety Notices

Important Information

T1-015

The Operator Manual

⚠ WARNING

Study the Operator Manual before starting the machine. You must understand and follow the instructions in the Operator Manual. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB dealer or employer. Do not guess, you or others could be killed or seriously injured.

INT-1-1-1_2

Do not operate the machine without an Operator Manual.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

Safety Warnings



This safety alert system identifies important safety messages in this manual. When you see this symbol, be alert, your safety is involved, carefuly read the message that follows, and inform other operators.

In this publication 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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The JCB 8250 Fastrac

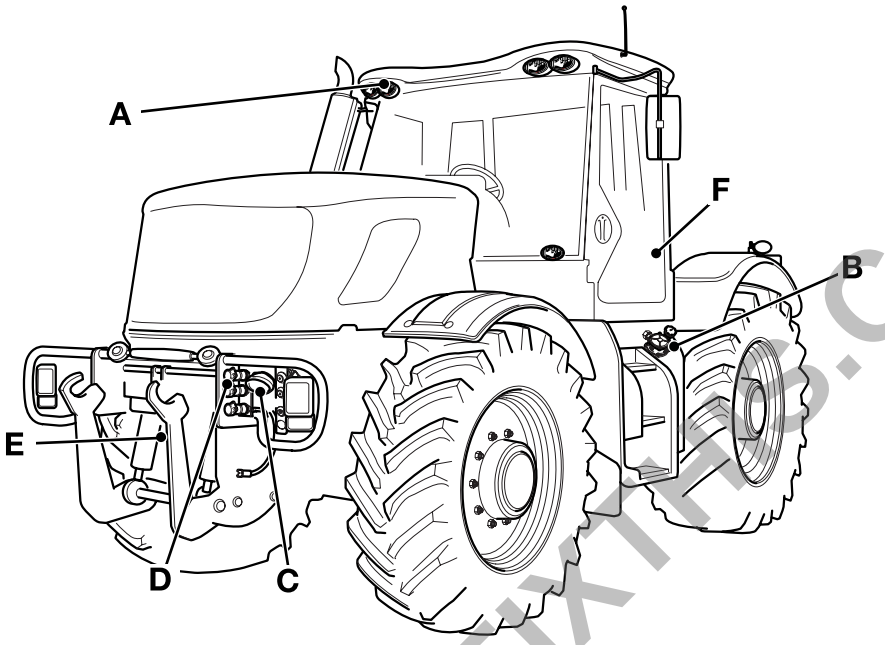


Fig 1.

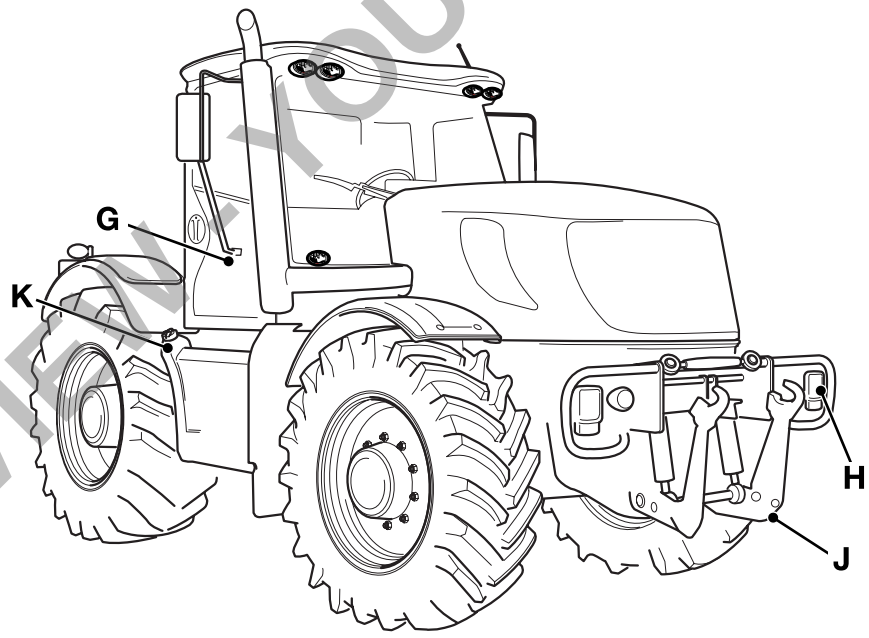


Fig 2.

A Front working Lights (upper)

B Hydraulic tank

C Front working lights (lower)

D Front Quick-release Couplings

E Front power take-off

F Left hand cab door (for normal entry and exit)

G Right hand cab door (for service access and emergency use only)

H Headlights

J Front 3-point linkage

K Fuel tank

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Cab Layout

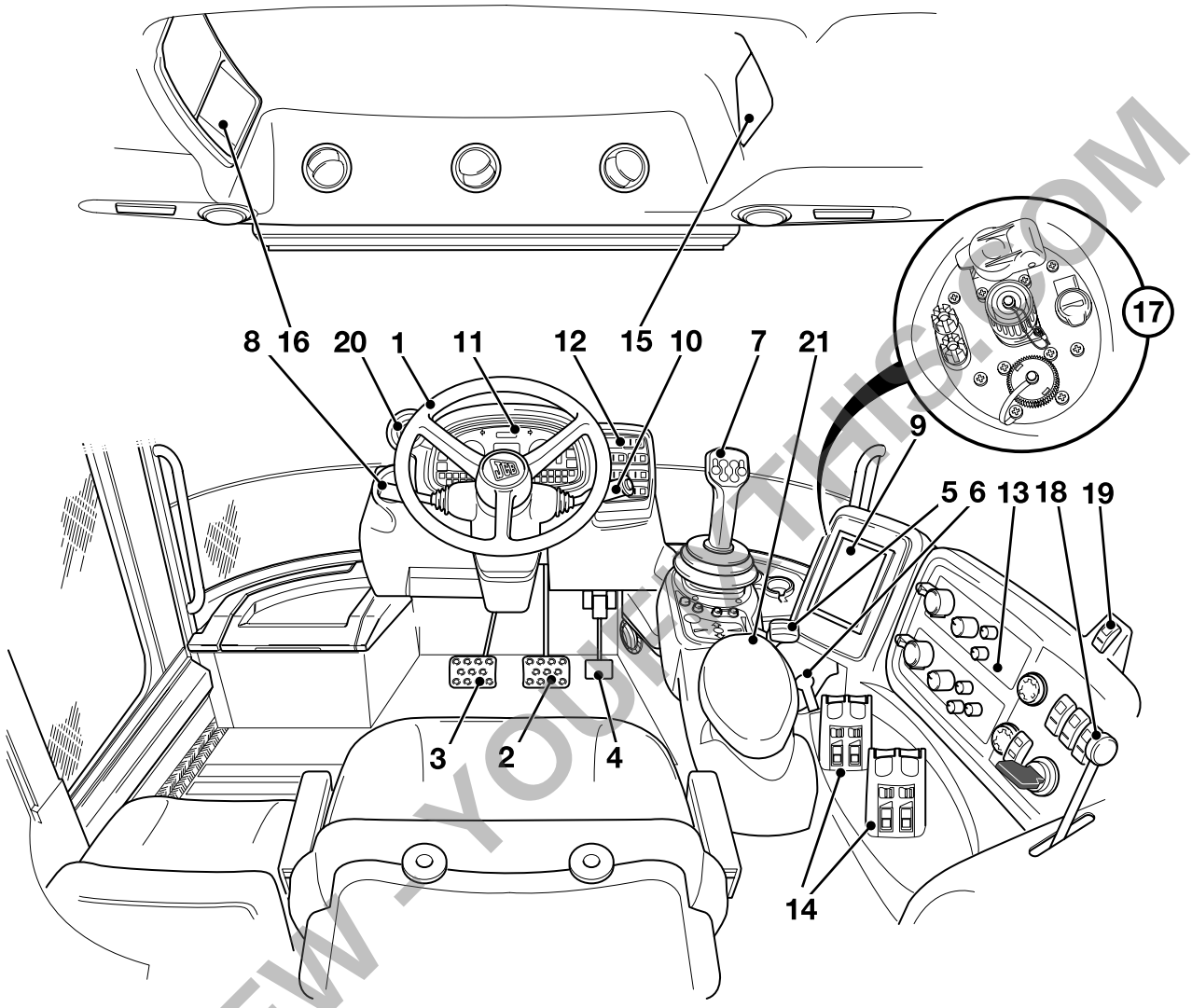


Fig 17.

1 Steering Wheel

2 Brake Pedal

Push down on the brake pedal to slow or stop the machine. The stop lights should operate when the brake pedal is applied. Do not operate the machine unless the stop lights work correctly.

3 Clutch Pedal

Note: *Do not rest your foot on either the clutch or brake pedal unless you are using these controls. Otherwise increased component wear may result.*

4 Accelerator Pedal

Gently depress the pedal to increase engine speed. Release to reduce the speed.

5 Hand Throttle Lever

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Auxiliary Sockets

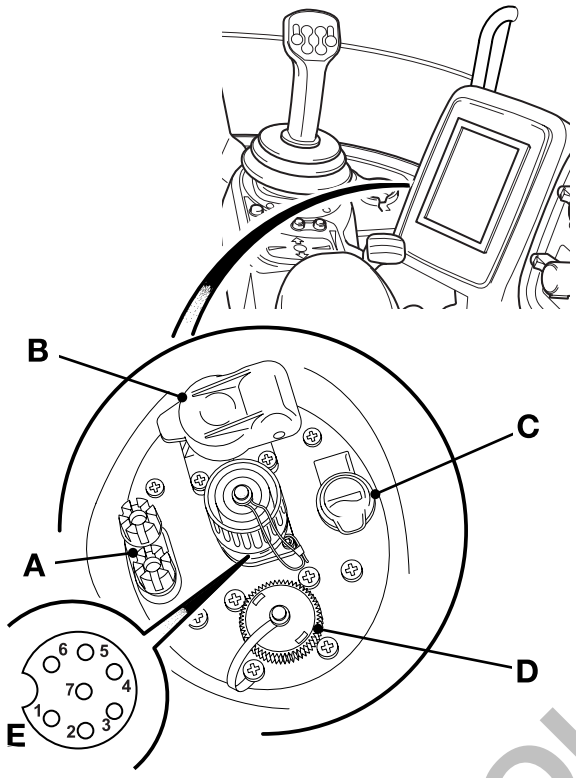


Fig 62.

Power Supplies

1 20 Amp fused battery supply from the pair of terminal posts **A**. (Red pin - 12V, black pin - earth.)

2 20 Amp fused battery supply from the top pin of 3-way socket **B**.

3 An ignition controlled 5 Amp fused supply from the right hand pin of 3-way socket **B**.

Note: *Supplies 2 and 3 have a common earth from the third pin of 3-way socket **B**.*

4 20 Amp fused battery supply from jack plug socket **C**.

5 20 Amp fused battery supply from the top pin of the optional socket **D**

6 An ignition controlled relay switched 20 Amp fused supply from the bottom pin of the optional socket **D**.

Note: *Supplies 5 and 6 have a common earth from the third pin of 3-way socket **D**.*

ISO Socket

Socket **E** conforms to ISO 11786 and a mating plug kit is available from your JCB Dealer. The socket is provided with the following connections from the tractor:

Note: *Although the socket is configured to ISO 11786, there is no signal for pin 5 (hitch position sensor).*

Pin Number	Connection	Frequency (Pulses per metre)
1	Radar sensed speed signal	UK: 131.8 Elsewhere: 132.7
2	Gearbox sensed speed signal	130 (all countries)
3	Rear PTO speed	
4	Rear 3-point linkage in work	
5	Not used	
6	12 Volt positive (ignition feed), 5 amps maximum	
7	Earth	

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Attaching an Implement - Using Controls in Cab

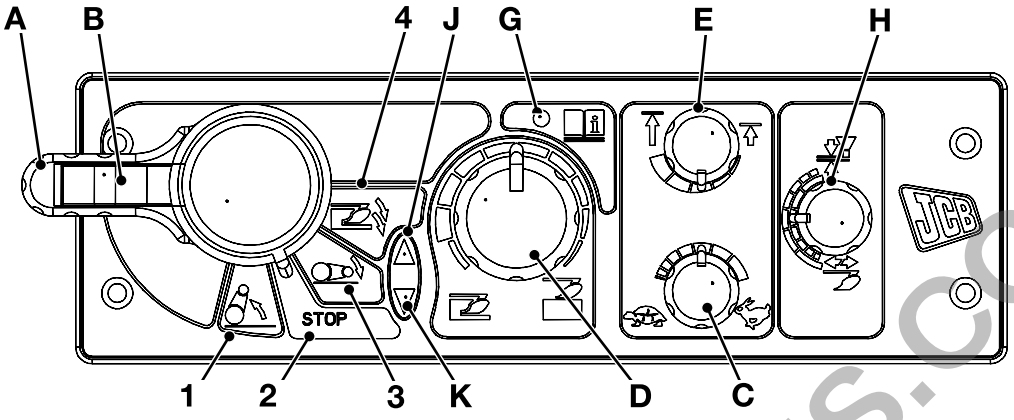


Fig 98.

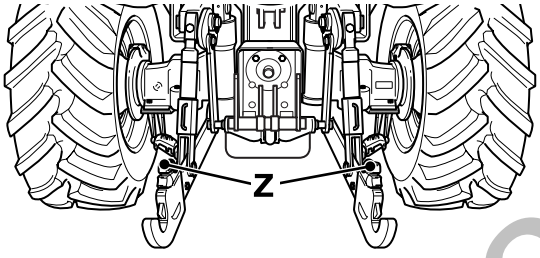


Fig 99.

1 Start the engine.

2 Move selector **H** to the top setting (Position Control). ⇒ *Introduction (🗋 86)*

3 Activate the control panel ⇒ *System Activation (🗋 87)*

4 Adjust the linkage height using the setpoint control knob **D**. Turn knob fully anti-clockwise. Indicators **J** and **K** will show whether the linkage is lifting or lowering.

5 To lift the linkage, either

a Turn the setpoint control knob **D** clockwise. The red indicator **J** will illuminate.

or

b With the setpoint control **D** fully anti-clockwise, move lever **A** to position 2 (stop), use the lift/lower switch **L/M** or the external buttons on the fenders. ⇒ *Attaching an Implement- using External Controls (on fender) (🗋 90)* I

If option **b** is taken, remember to re-activate the control panel once the implement is connected.

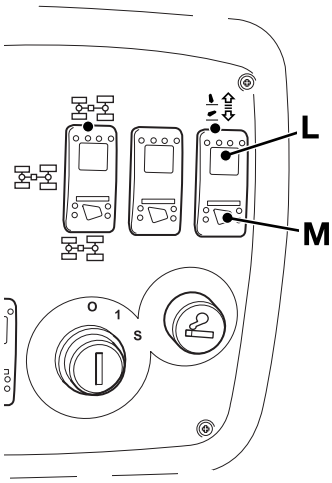


Fig 100.

6 Engage the lower link hooks on the linkage balls and secure using latches **Z**. Finally, attach the top link and adjust as necessary

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Operating in Low and High Temperatures

Low Temperatures

In low temperature situations, take the following precautions. They will make for easier starting and prevent possible damage to your machine. ***See Fluids, Lubricants and Capacities (Maintenance Section)*** for recommended fluids.

1 Use the correct viscosity engine oil.

2 Use a low temperature diesel fuel (if available).

3 Use the correct coolant mixture.

4 Keep the battery at full charge.

5 Fill the fuel tank at the end of each work period.

This will help to prevent condensation forming in the fuel tank.

6 Protect the machine when not in use.

Park the machine inside a building or cover it with a tarpaulin.

7 Install cold weather starting aids.

In very low temperatures, e.g. -18 °C (0 °F) and below, additional starting aids may be needed. Examples are fuel, oil and coolant heaters and extra batteries. Ask your JCB Distributor for advice.

8 Remove snow from the engine canopy and grille before starting.

Otherwise snow could get into the air cleaner.

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Routine Maintenance

Service Requirements

Introduction

T3-002

Your machine has been designed and built to give maximum performance, economy and ease of use under a wide variety of operating conditions. Prior to delivery, your machine was inspected both at the Factory and by your Distributor to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble free operation it is important that the routine services, as specified in this Manual, are carried out by an approved JCB Distributor at the recommended intervals.

This section of the Manual gives full details of the service requirements necessary to maintain your JCB machine at peak efficiency.

It can be seen from the Service Schedules on the following pages that many essential service checks should only be carried out by a JCB trained specialist. Only JCB Distributor Service Engineers have been trained by JCB to carry out such specialist tasks, and only JCB Distributor Service Engineers are equipped with the necessary special tools and test equipment to perform such tasks, thoroughly, safely, accurately and efficiently.

JCB regularly updates its Distributors advising them of any product developments, changes in specifications and procedures. Therefore only a JCB Distributor is fully able to maintain and service your machine.

A Service Record Sheet or Book is provided which will enable you to plan your service requirements and keep a service history record. It should be dated, signed and stamped by your Distributor each time your machine is serviced.

Remember, if your machine has been correctly maintained, not only will it give you improved reliability but its resale value will be greatly enhanced.

Owner/Operator Support

JCB together with your Distributor wants you to be completely satisfied with your new JCB machine. If you do encounter a problem however, you should contact your Distributor's Service Department who are there to help you!

You will have been given the names of the relevant service contacts at your Distributor when the machine was installed.

To get the most from your Distributor please help them to satisfy you by:

1 Giving your name, address and telephone number.

2 Quoting your machine model and serial number.

3 Date of purchase and hours of work.

4 Nature of the problem.

Remember, only your JCB Distributor has access to the vast resources available at JCB to help support you. In addition, your Distributor is able to offer a variety of programmes covering Warranty, Fixed Price Servicing, Safety Inspections, including weight tests, covering both legal and insurance requirements.

Service/Maintenance Agreements

To help plan and spread the costs of maintaining your machine, we strongly recommend you take advantage of the many Service and Maintenance Agreements your Distributor can offer. These can be tailor made to meet your operating conditions, work schedule etc.

Please consult your JCB Distributor for details.

Initial Service and Inspection (100 Hours)

T3-005

To further protect your machine's performance it is essential your JCB Distributor carries out an initial service and inspection when the machine is one month old or when it has completed 100 hours of operation (whichever occurs first). You should notify your Distributor in advance to allow the necessary arrangements to be made.

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Fluids, Lubricants and Capacities

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). Whilst 15W/40 oil is recommended for most climates, limited use of low viscosity oils such as 10W/30 is permitted to provide easier starting and sufficient oil flow at temperatures below -5ºC (23ºF). Continued use of low viscosity oils can decrease engine life and will require different service intervals.* ⇨ ***Service Schedules (158)***

Table 4.

ITEM	CAPACITY Litres	CAPACITY UK Gal	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
Fuel Tank	577	127	Diesel Oil	ASTM D975-66T Nos. 1D, 2D
Engine (Oil)	24	5.3	JCB Engine Oil EP 15W/40 (-20 to +40 deg C)	API CH-4 or ACEA E3/ B3A3, SAE15W/40(1)
Engine (Coolant)	33	7.7	JCB High Performance Antifreeze & Inhibitor/ Water ⇨ ***Coolant Mixtures (166)***	ASTM D6210
Transmission	75	16.5	JCB V-Tronic Transmission Fluid	ZF TE-ML06, B and C
Rear 3 Point Linkage Cross-shaft	0.2	0.04	JCB V-Tronic Transmission Fluid	ZF TE-ML06, B and C
Clutch	0.5	0.1	JCB V-Tronic Clutch Fluid	Pentosin CHF 11S
Front Axle			JCB HD90 Gear Oil	API-GL-5, MIL-L-2105C
- Axle Beam	16	3.5		
- Hubs (each)	4	0.9		
Rear Axle			JCB HD90 Gear Oil	API-GL-5, MIL-L-2105C
- Axle Beam	56	12.3		
- Hubs (each)	7	1.5		
Brake System			JCB Brake Fluid Dot 4	SAE J1703 DOT 4
- Front	0.75	0.2		
- Rear	0.75	0.20		
Hydraulic System(2)	180	40	JCB Hydraulic Fluid HP46 (Above 38ºC,100ºF) JCB Hydraulic Fluid HP32 (Below 38ºC,100ºF)	ISO VG46 ISO VG32
Grease Points			JCB HP Grease	Lithium complex NLGI No.2 consistency including extreme pressure additives
Front PTO Gearbox (optional)	7	1.5	JCB HP Universal ATF	ZF TE-MIL 09,11,12,14

(1) If API CH-4 or ACEA E3/B3A3 engine oil AT SAE 15W/40 is not available, the engine oil must be changed at 250 hours, using the following alternative oils: For -20ºC to +40ºC: JCB Engine Oil HP15W/40 or for -25ºC to +30 ºC: JCB Engine Oil HP10W/30.

(2) The total hydraulic system capacity depends on the equipment being used. Watch level indicator on hydraulic tank

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Engine

Changing the Air Filter Elements

Note: *In a dusty working environment, the outer element may have to be renewed more frequently than the service schedule recommendation. A new inner element must be fitted at latest, every third time the outer element is changed. As a reminder, mark the inner element with a felt tip pen each time you change only the outer element. DO NOT attempt to wash or clean elements - they must be renewed.*

⚠ CAUTION

The outer element must be renewed immediately if the warning light on the instrument panel illuminates.

2-3-3-1

1 Turn the front wheels onto full left lock and stop the engine. Remove the starter key.

⚠ WARNING

When gaining access for maintenance work, make sure no-one is in a position to be trapped by the wheels as the steering wheel is turned.

13-3-2-15

2 Open the bonnet.

3 If changing the inner element disconnect the filter induction hose **A** to prevent dust getting into the engine.

Cover the hose to prevent rain and dirt getting into the engine.

4 Release the clips **B** and remove cover **C**.

5 Pull out the outer element **D**. Take care not to tap or knock the element as you remove it.

6 If the inner element **E** is to be changed, lift up pulls **G** and remove inner element **E**.

7 Clean the inside of canister **F**, and cover **C**.

8 Carefully insert the new elements into the canister. Make sure that the tongue **Y** on the inner element engages in the slot inside the canister **F**.

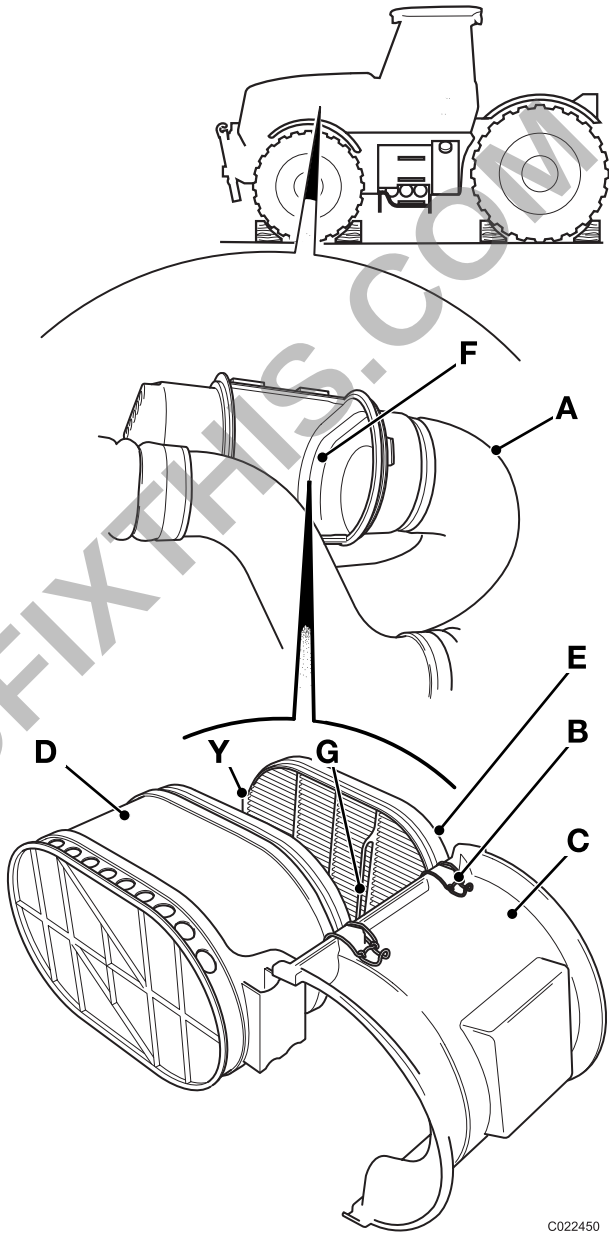


Fig 217.

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Warnings (Audible/Visual)

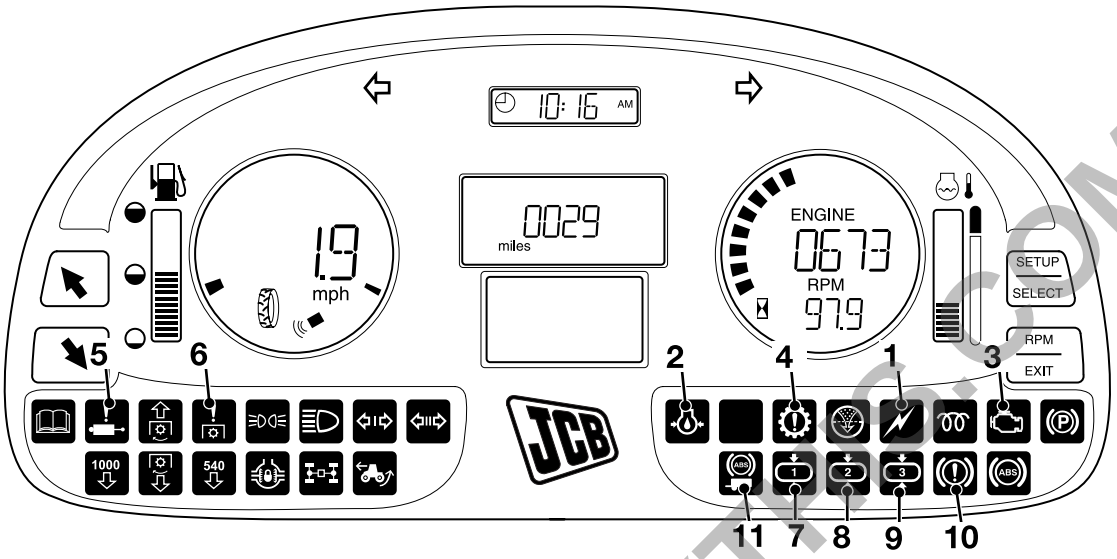


Fig 31.

⚠ WARNING

When you hear an audible warning relating to one of the following functions, stop the machine as soon as possible. Get the fault put right before using the machine again.

13-2-1-12

Immediately following ignition switch-on and for a period of 3 seconds, all lamps and display LCD segments illuminate and a bleeper operates. This is followed by a brief sounding of the buzzer. If any of the lamps, the LCD segments or either of the audible alarms do not operate, carry out the necessary repairs before using the machine.

1 No charge light

Operates if the battery charging circuit fails while the engine is running. The light should go out a few seconds after the engine is started.

2 Engine oil pressure low light

Operates if the engine oil pressure is low. The light should go out when the engine is started.

3 Engine fault light

Indicates an engine fault other than low oil pressure. Engine performance may be affected. Error code will be displayed on touch screen. ⇒ *E - Error Codes (142)*

4 Transmission fault light

Operates if the transmission has a fault. ⇒ *E - Error Codes (142)*

5 External hydraulics system fault light

Operates if the external hydraulics system has a fault. ⇒ *E - Error Codes (142)*

6 PTO system fault light

Operates if the PTO system has a fault.⇒ *E - Error Codes (142)*

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Checking the Clutch Fluid Level

⚠ CAUTION

Using incorrect fluid could damage the system. See Fluids, Capacities and Lubricants for the correct fluid. The fluid can harm your skin. Wear rubber gloves. Cover cuts or grazes.

2-3-5-1_2

⚠ WARNING

The exhaust pipe becomes extremely hot when the engine is running and will remain so for some time after the engine is stopped. If you touch the hot pipe you could be severely burned.

13-2-4-11

1 Check the fluid level in the reservoir **A**.

The fluid level should be between the two lines **B** and **C** moulded into the side of the reservoir. If necessary, add fluid as in **Step 2**.

Note: *If the level has fallen below the lower mark **C**, the system must be checked by your JCB distributor.*

2 Add the specified fluid.

Clean the area around the filler cap **E**. Remove the cap and carefully pour in the recommended fluid until it reaches the correct level. Avoid spilling it. Wipe up any spillage. Do not allow dirt to enter the reservoir. Fit the cap securely.

Note: *Do not use ordinary hydraulic fluid.*

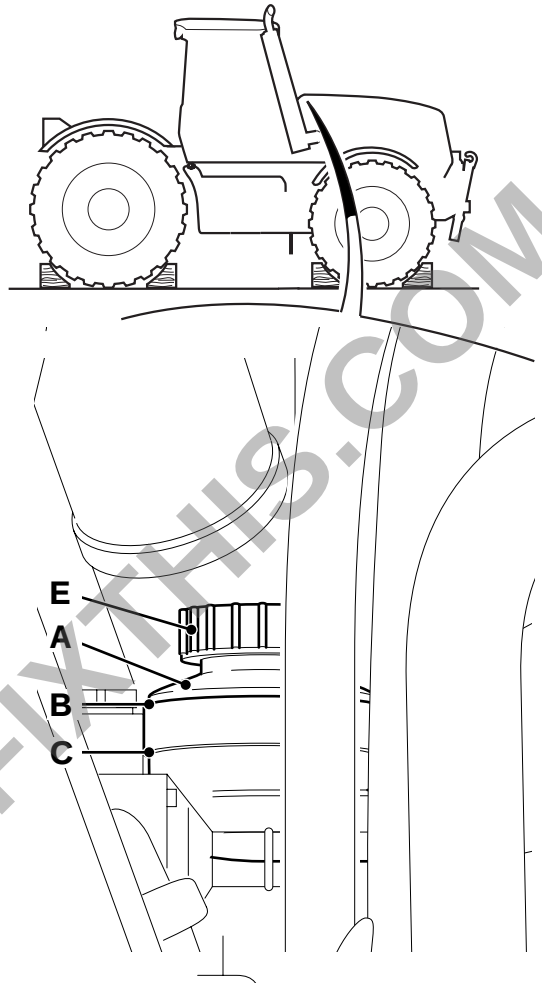


Fig 241.

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