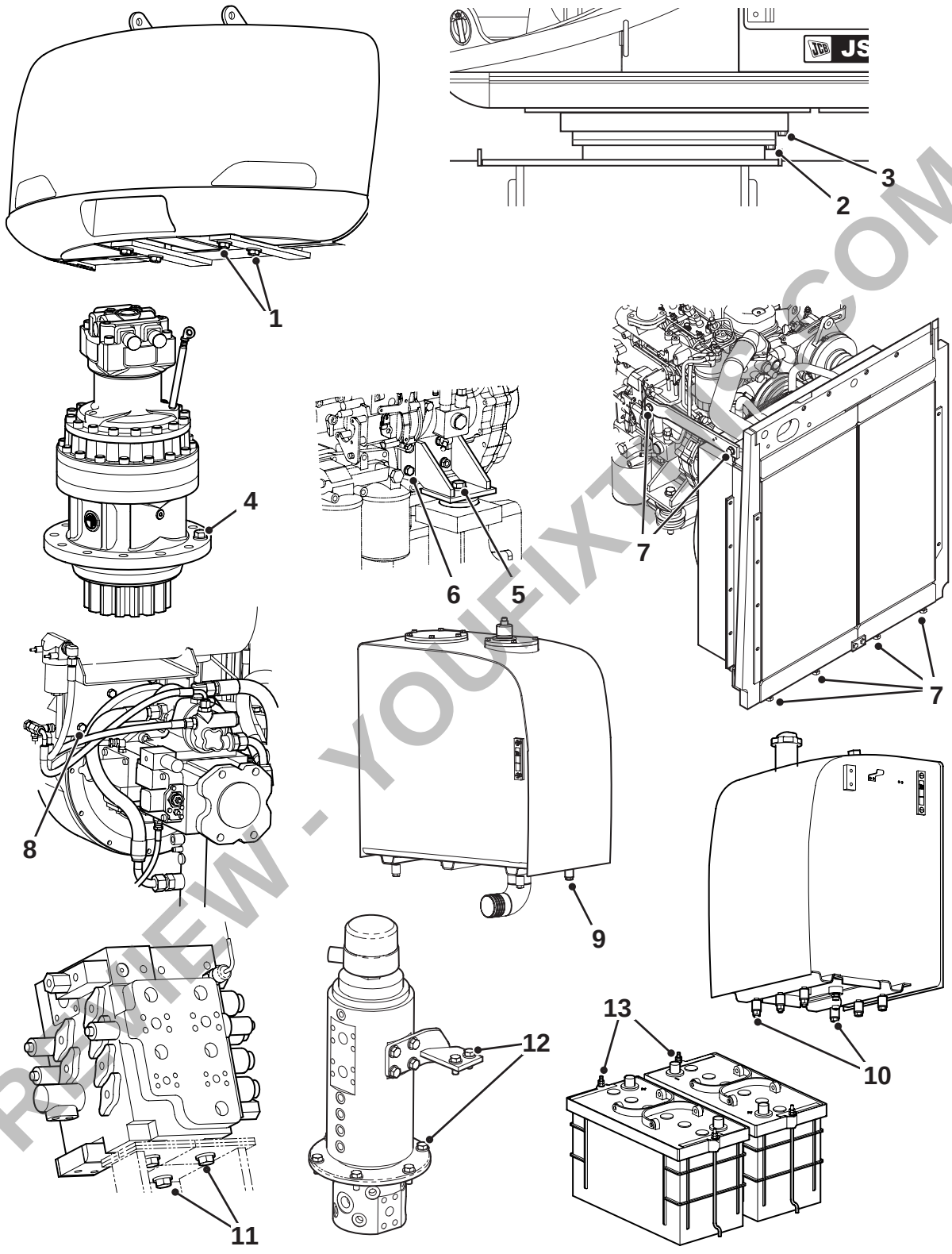


Fig 82.

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List of Monitor Messages

Message Display	Meaning
AUTO IDLE	Engine automatic idle system on
AUTO IDLEOFF	Engine automatic idle system off
LOW IDLE	Engine at low idle (when in auto idle mode or one touch idle on)
HARD MODE	Cushion mode- hard
SOFT MODE	Cushion mode- soft
SWING LOCK	Swing lock on
OVERLOAD	Warning when machine is lifting greater than capacity
OVERLOAD ON	Overload warning system switched on -warning will be given if lifting load exceeds safe capacity
GRAB CW	Grab circuit operated (clockwise direction)
GRAB CCW	Grab circuit operated (counter-clockwise direction)
AUTO WARM	Automatic engine warm up system on (auto warm up is cancelled if the one touch idle switch is pressed, the throttle dial moved or the excavator joysticks operated)
PREHEAT	Engine preheat on. When the temperature is low, turn the key switch to the HEAT position for 15 to 30 seconds (maximum) before starting the engine.
ISOLATOR	Servo system isolated
Q/H DISCON?	Bucket quick hitch disconnect? (Press ACK to confirm)
Q/H DISCON	Bucket quick hitch disconnected
LIGHTS ON	Side lights on
HAMMER	Hammer circuit in operation
BEACON ON	Rotating beacon switched on
BEACON OFF	Rotating beacon switched off
WIPER INT	Window wiper switched on (intermittently)
WIPER ON	Window wiper switched on (continuously)
LOW FUEL	Low fuel level in fuel tank
RES FUEL	Reserve level in fuel tank
EMER STOP	Emergency stop (engine is shutdown and switch must be pressed again to allow engine to be restarted)
PBRAKE OFF?	Park brake off? Press the switch on the fascia panel for 1.5 seconds to confirm park brake to be released.
P BRAKE OFF	Park brake off
P BRAKE ON	Park brake on
AXLE LOCK	M Axle lock manual
AXLE LOCK A	Axle lock automatic (Front axle will be locked when the service brake is applied)
DOZER MODE	Dozer mode on (left hand joystick will operate dozer, if fitted)
NO THROTTLE	Fault with engine control system - consult JCB Dealer
LIMP MODE	Machine is in emergency back up mode (⇨ *Emergency back-up switch (46)*)

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Heater/Air Conditioning Controls

Located on the right console, the heater/air conditioning controls are used in conjunction with the heater fan controls.

Heater Controls

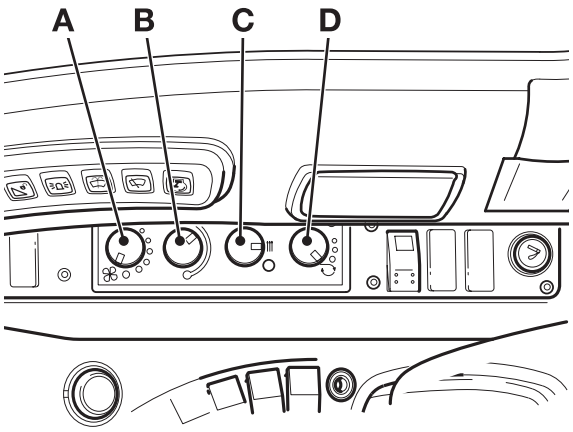


Fig 35.

Heater Fan.

Turn rotary switch **A** clockwise to turn on the heater fan. The volume of air from the heater increases by rotating the switch further clockwise.

Temperature.

Turn rotary switch **B** fully anti-clockwise for minimum temperature, turn it fully clockwise for maximum temperature. (Intermediate positions give intermediate temperatures.)

Air Conditioning Controls (if fitted).

Turn rotary switch **C** clockwise to select air conditioning. turn the rotary switch **C** fully clockwise for maximum cooling. (Intermediate positions give intermediate cooling.)

Fresh Air/Re circulated Air.

Turn rotary switch **D** fully anti-clockwise for fresh air, turn it fully clockwise for re circulated air. (Intermediate positions give a mixture of fresh and re circulated air.)

Using the Air Conditioning

1 In hot weather to produce comfortable working conditions.

- **a** Close the door and windows.
- **b** Set control **D** fully anti-clockwise so as to avoid drawing hot air in from outside the cab.
- **c** Set control **A** fully clockwise to direct air into the body of the cab.
- **d** Set control **B** fully anti-clockwise to avoid re-heating the de-humidified conditioned air. If the in-cab temperature drops too low adjust clockwise the setting of the heat control to remedy the situation.

2 In cold/damp weather, to minimise misting.

- **a** Close the door and windows.
- **b** Set control **D** fully anti-clockwise so as to avoid drawing damp air in from outside the cab.
- **c** Set control **A** fully clockwise to direct air onto the windscreen.
- **d** Set control **B** fully clockwise to heat the de-humidified conditioned air, de-mist the screen and generally de-humidify the cab air.

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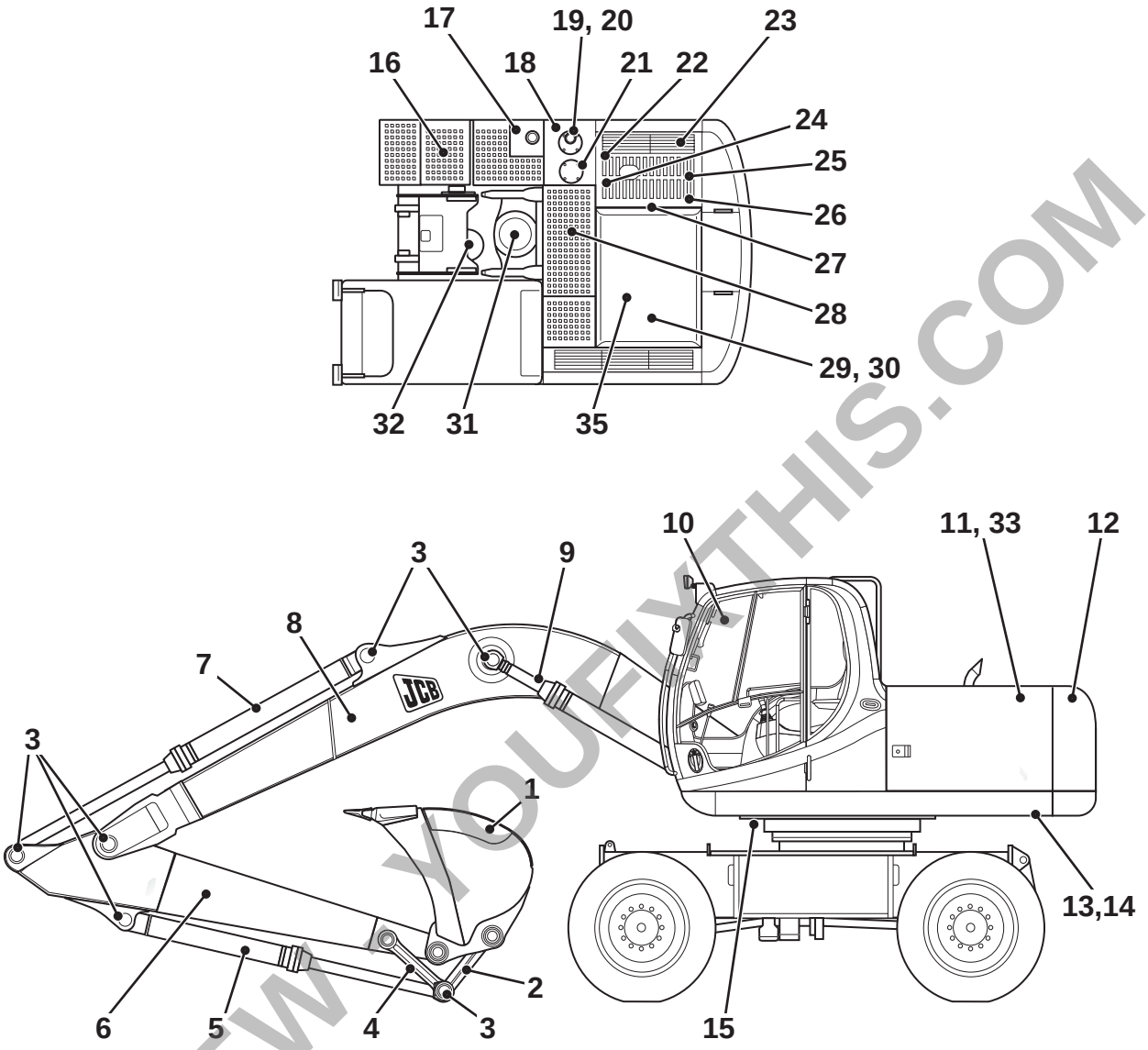


Fig 1.

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Front Axle

Checking the Differential Oil Level

⚠ WARNING

Make the machine safe before working underneath it. Park the machine on level ground, lower the attachments to the ground. Apply the park brake, put the transmission in neutral and stop the engine. Block both sides of all four wheels.

Disconnect the battery, to prevent the engine being started while you are beneath the machine.

GEN-4-1_1

⚠ CAUTION

The axle oil level must be checked with the machine level, otherwise a false indication of the amount of oil in the axle will be given.

16-3-5-3

1 Prepare the machine. Position the machine on level ground. Engage the parking brake. Lower the attachments to the ground. Stop the engine and remove the starter key.

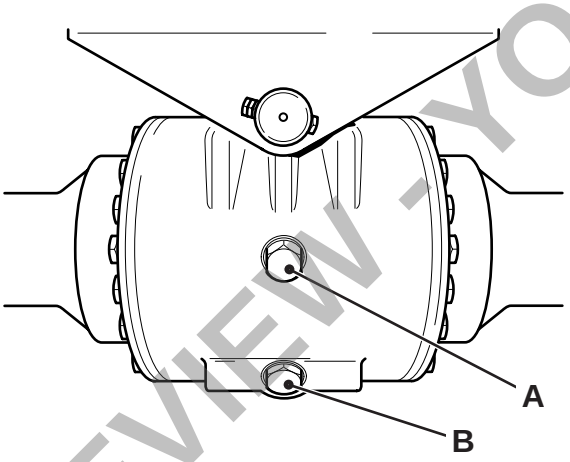


Fig 125.

2 Check/Add oil.

a Clean the area around the fill/level plug **A**, then remove plug and its sealing washer. Oil should be level with the bottom of the hole.

Note: *If the oil gives off a foul smell it is a sign that the oil has degraded and should be changed.*

b Add recommended oil if necessary ⇨ ***Lubricants and Capacities (105)*** for oil type.

3 Clean and refit the plug and sealing washer, tighten firmly.

Changing the Differential Oil

⚠ WARNING

Make the machine safe before working underneath it. Park the machine on level ground, lower the attachments to the ground. Apply the park brake, put the transmission in neutral and stop the engine. Block both sides of all four wheels.

Disconnect the battery, to prevent the engine being started while you are beneath the machine.

GEN-4-1_1

Note: *This job should be done with the oil at operating temperature.*

1 Prepare the machine. Position the machine on level ground. Engage the parking brake. Lower the attachments to the ground. Stop the engine and remove the starter key.

2 Drain the oil.

a Place a container of suitable size beneath plug **B** to catch the oil.

b Remove the drain plug **B** and its washer. Allow oil to drain out. Wipe it clean (Metallic particles should be carefully removed).

c Fit the plug and sealing washer, tighten firmly.

3 Fill with new oil.

a Add recommended oil ⇨ ***Lubricants and Capacities (105)*** for oil type.

b Clean and refit the plug and sealing washer, tighten firmly.

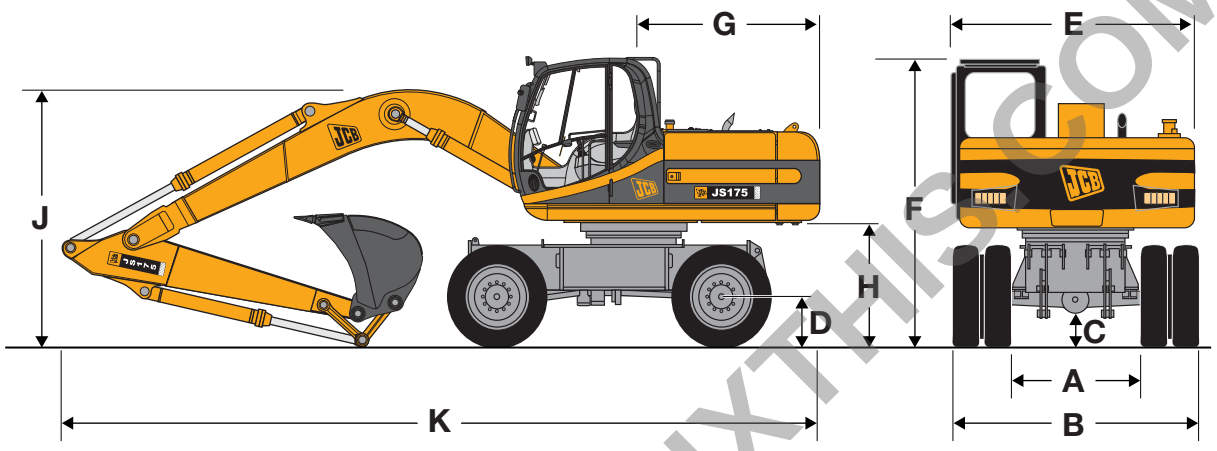
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Specifications

Static Dimensions

JS175W - Monoboom



Dimensions in millimetres (ft. in)	
A Internal width between dual wheels	1330 (4 ft 4 in)
B External width between dual wheels	2490 (8 ft 2 in)
C Ground clearance	350 (1 ft 1 in)
D Height to axle centre line for dual wheels	498 (1 ft 7 in)
D Height to axle centre line for single wheels	519 (1 ft 8 in)
E Overall width	2470 (8 ft 1 in)
F Height over cab	3185 (10 ft 6in)
G Tail length	2338 (7 ft 8 in)
H Clearance under counterweight	1270 (4 ft 2 in)

Dipper lengths	2.25m	2.7m	3.05m
J Transport height	3185 (10 ft 6in)	3185 (10 ft 6in)	3240 (10 ft 7 in)
K Transport length	8293 (27 ft 2 in)	8293 (27 ft 2 in)	8454 (27 ft 8 in)

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Obtaining Replacement Parts

T3-004_2

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

Your dealer will need to know the exact model, build and serial number of your machine. See ***Identifying Your Machine*** in INTRODUCTION section.

The data plate also shows the serial numbers of the engine, transmission and axle(s), where applicable. But remember if any of these units have been changed, the serial number on the data plate may be wrong. Check on the unit itself.

Lifting Regulations - Inspections and Tests

T3-003

Only your JCB Distributor can fully meet the requirements of the inspection and test parameters to suit UK Health and Safety Executive (H.S.E.) legal requirements along with providing Annual Inspections to meet your Insurance Company Policy conditions.

Only your JCB Distributor has the ability to meet the definition described covering a "Competent Person" to carry out these necessary tests and inspections. This ensures that only JCB Factory trained, experienced and up-to-date Engineers supported with all of the available data and material provided only to a JCB Distributor will ensure a thorough and reliable standard.

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Starting the Engine

1 ⇒ *Before Starting the Engine (53)*

2 Turn the throttle control to the low r.p.m position.

3 Insert the key into the starter switch and turn the key to the 'ON' position **I**. Check the monitor for any problems.

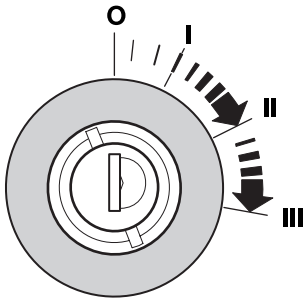


Fig 41.

⚠ WARNING

When you hear an audible warning, stop the machine as soon as possible. Get the fault put right before using the machine again.

13-2-1-9

4 Raise the control lock lever to isolate the hydraulic controls. ⇒ *Fig 27. (36)*

5 Alert others around you of an imminent engine start by sounding the horn.

6 Turn the key from the ON position to START, when the engine starts release the starter key. The switch will automatically return to the ON position.

7 After starting, the engine will perform its warm-up operation.

a When the engine water temperature is low the automatic-warm up operation begins. The message 'AUTO WARM' is displayed. During auto warm the engine speed is gradually increased over a 14 minute period. At the end of the auto warm sequence the engine speed will return to low idle and the 'AUTO WARM' message will disappear.

b If the throttle knob is moved, the operation levers moved or the one touch idle switch is pressed the automatic warm up is discontinued.

c Do not operate the starter motor for more than 20 seconds at one time. Let the starter motor cool for at least 2 minutes.

Note: *If the outside temperature is below +5°C (41°F) turn the starter switch key to the HEAT position **II**. When the key is in the HEAT position the monitor will display 'PREHEAT'. When the `PREHEAT' message disappears the engine is ready to start.*

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Cab Layout

Location of Controls and Components

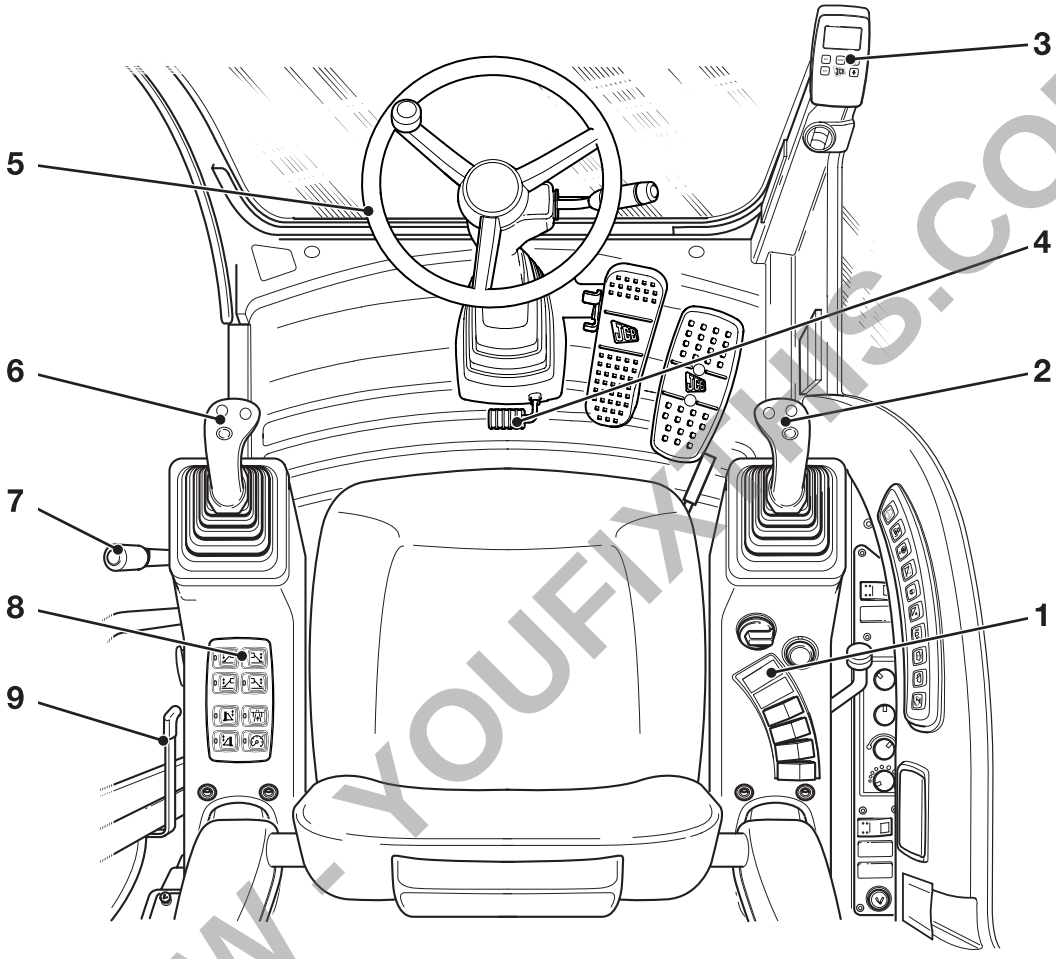


Fig 22.

1 ⇒ ***Right Console (34)***

2 Right Excavator Joystick Control ⇒ ***Excavating Controls (65)***

3 ⇒ ***Monitor Panel (39)***

4 Steering Column Lock Latch ⇒ ***Steering Column (29)***

5 Steering Wheel ⇒ ***Driver Controls and Switches (33)***

6 Left Excavator Joystick Control ⇒ ***Excavating Controls (65)***

7 Control Lock Lever ⇒ ***Left Console (36)***

8 ⇒ ***Left Console (36)***

9 Door Lock Release Lever ⇒ ***Opening and Closing the Door (24)***

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Table 26. Alternator

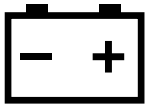
Message	Cause	Remedy
ALTERNATOR 	Belt tension	Adjust
	Wiring fault	Repair
	Defective battery	Replace
	Defective regulator	Replace (1)
	Defective alternator	Repair or replace(1)

Table 27. Low coolant

Message	Cause	Remedy
LOW COOLANT 	Coolant low	Refill
	Defective sensor	Replace(1)

Table 28. Engine oil filter

Message	Cause	Remedy
ENG. OIL FILTER 	Engine oil dirty	Replace engine oil, oil filter
	Defective sensor	Replace(1)

Table 29. Electrical fault

Message	Cause	Remedy
ELEC. FAULT	Short circuit, etc abnormalities	Inspect, repair(1)

(1) Indicates jobs which should be done by a specialist. Refer to Service Manual.

Operations

Table 30. Operating controls hard to operate

Cause	Remedy
Foreign matter caught on control valve spool	Wash the control valve(1)
Valve sticking	Repair or replace valve assembly(1)
Improper lubrication of lever link	Grease
Lever link seizure	Grease

(1) Indicates jobs which should be done by a specialist. Refer to Service Manual.

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Scraping and cutting (With Blade)

If a deep cut is to be made, do it in steps of about 50 mm (2 in). Do not forget to adjust the dozer height when the machine's wheels enter the cut.

Pulling Out from Soft Ground

If the machine gets bogged down in soft ground, the excavator controls can be used to assist in getting moving again.

To free the machine it is necessary to put something underneath the wheels to provide grip. Proceed as follows:

1 One side Bogged Down.

a Swing the boom towards the side to be freed and stop it when at 90° to the wheels.

b Set the dipper at 90° to the boom and crowd the bucket.

c Lower the boom until the bucket touches the ground. If necessary place a board, or something else with broad ground contact, under the bucket.

d Lower the boom further so as to lift the bogged down wheel(s) off the ground.

e Place a mat, board or log, etc. beneath the wheels and raise the boom until the wheels rest on it.

f Engage low gear and drive the machine away.

2 Both Sides Bogged Down.

Carry out the steps **a** to **e** of One Side Bogged Down for both sides of the machine. Then drive the machine away.

Alternatively proceed as follows:

a Set the boom and dipper as if to dig, and lower the bucket teeth into the ground directly in front of the machine.

b Then, at the same time, draw in the dipper and drive the machine forward.

c The machine will be dragged out of the soft ground.

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