2. Stop the engine and let it cool for at least one hour. Do not try to clean any part of the engine while it is running.
3. Make sure that all of the electrical connectors are correctly coupled. If the connectors are open, attach the correct caps or seal with water proof tape.

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Console Switches

General

The installed switches and their positions can change according to the specification of the machine.

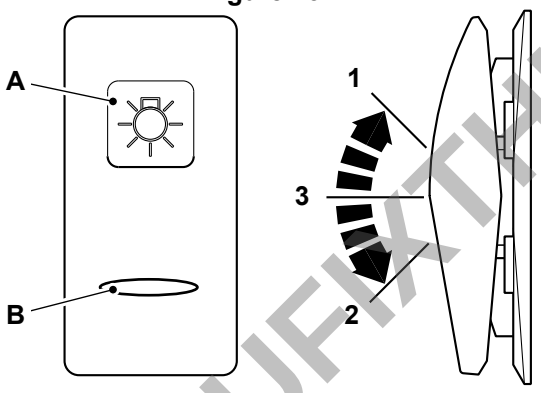
Each switch has a graphic symbol to show the function of the switch. Before you operate a switch, make sure that you understand its function.

The rocker switches have two or three positions (as shown).

If the switch has a backlight, then the graphic symbol illuminates when the ignition switch or side lights are in the on position.

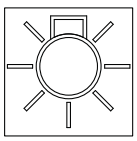
The light bar illuminates to show that the switch function is active.

Figure 23.



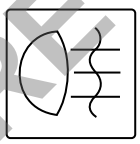
A Graphic symbol **B** Light bar

Road Lights



Three position rocker switch. The switch functions operate front sidelight, headlights and rear tail lights. Position 2 operates when the ignition is in the on and off positions. Position 3 operates when the ignition is in the on position. Machines without headlights or side lights are designed for site use. You may be breaking local laws if you travel on the road without headlights or side lights.
Position : 1 = Off
Position : 3 = Sidelights on.
Position : 2 = Headlights and rear tail lights on (ignition switch on).
Position : 2 = Sidelights and rear tail lights on (ignition switch off).

Rear Fog Lights



Two position rocker switch. The switch functions operate when the ignition switch is in the on position and the headlights are on.
Position **1**: Off
Position **2**: Rear fog light on

Hazard Warning Lights



Two position rocker switch. The switch functions operate when the ignition switch is in the on and off positions.
Position : 1 = Off
Position : 2 = On. A light on the instrument panel flashes with the outside lights.

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4.4. Install the filler cap.

Dipstick

1. Make the machine safe with the boom lowered.
   Refer to: Maintenance Positions (Page 276).
2. Get access to the hydraulic oil filler cap.
   Refer to: Service Points (Page 283).
3. Check the hydraulic oil level on the dipstick. The hydraulic oil level must be between the two marks on the dipstick.
4. Top up oil level if necessary:
   4.1. Vent the hydraulic system.
   Refer to: Discharge (Page 341).
   4.2. Remove the hydraulic oil filler cap.
   4.3. Add hydraulic oil.
   Refer to: Fluids, Lubricants and Capacities (Page 446).
   4.4. Install the filler cap.

Cylinders / Rams

Check (Condition)

Extend each ram fully, one at a time and visually examine for score marks, dents, leaks or similar defects. Make the machine safe before inspecting each ram.

If a ram piston appears defective, contact your service engineer or JCB dealer.

Hose Burst Check Valves

Check (Operation)

⚠ **WARNING** Keep people clear of the machine while you do these checks.

The hose burst check valves 'lock' to prevent the uncontrolled movement of the ram pistons if the hydraulic pressure fails or a hose bursts. The valves are installed directly on the rams.

Keep people clear of the machine while you do these checks.

The machine must have an attachment installed for the test to operate correctly.

1. Park the machine is on solid, level ground.
2. Raise and extend the boom to its maximum position, then move the attachment to a horizontal position.
3. Stop the engine.
4. Turn the ignition key to the on position.
5. Use the control lever to try to lower the boom and tip the attachment. If there is any movement, get the hydraulic system checked by your JCB dealer.
6. Use the extend/retract function to try to retract the boom. If there is any movement, get the hydraulic system checked by your JCB dealer.

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(For: 540-200 [T4i])

Extended Stabiliser

Table 101.

Description	Dimension
Maximum lift capacity	4,000kg
Lift capacity to full height	1,500kg
Lift capacity at full reach	200kg
Maximum lift height	20,000mm
Reach at maximum lift height	2,820mm
Maximum forward reach	15,900mm
Reach with 1t load	10,650mm
Placing height	19,100mm

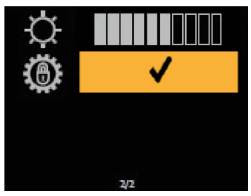
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Auto Torque Converter Lock-up

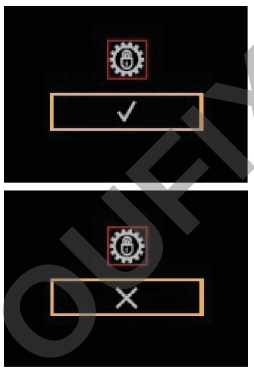
1. Go to the machine setup screen.
2. Press the navigation arrows to select the auto torque converter lock-up.

Figure 105.



3. Press the information switch for 2 seconds.
4. Press the navigation arrows to activate or cancel the auto torque converter lock-up.

Figure 106.

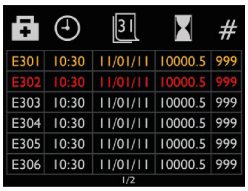


5. Press the information switch for more than 2 seconds to confirm the setup.

Fault Log

The fault log screen provide information on the active and previously active faults on the machine. The fault log display screen shows the fault code, time, date, engine hours and number of times that the fault has been active. By default, the fault log display shall only show the active faults. It shall be possible to view active and historical faults by going to the diagnostic menu. Faults shall be displayed in the colour of their severity (critical = red, warning = yellow, trivial = gray).

Figure 107.

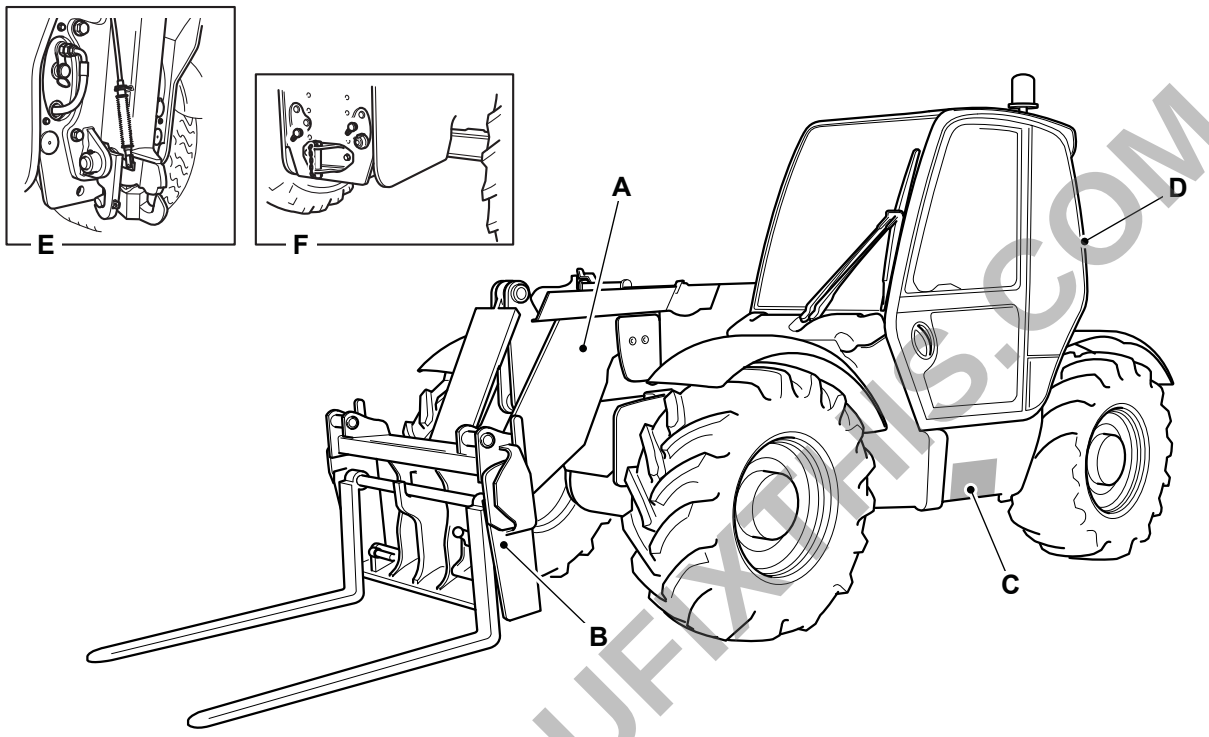


If a service fault is recognised by the machine electronic system a fault icon and fault code is displayed on the right side of the home screen. The fault indicator is illuminated amber. The buzzer sounds momentarily when a service fault is active. The code will remain until it is acknowledged by pressing the information button.

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Main Component Locations

Figure 3.

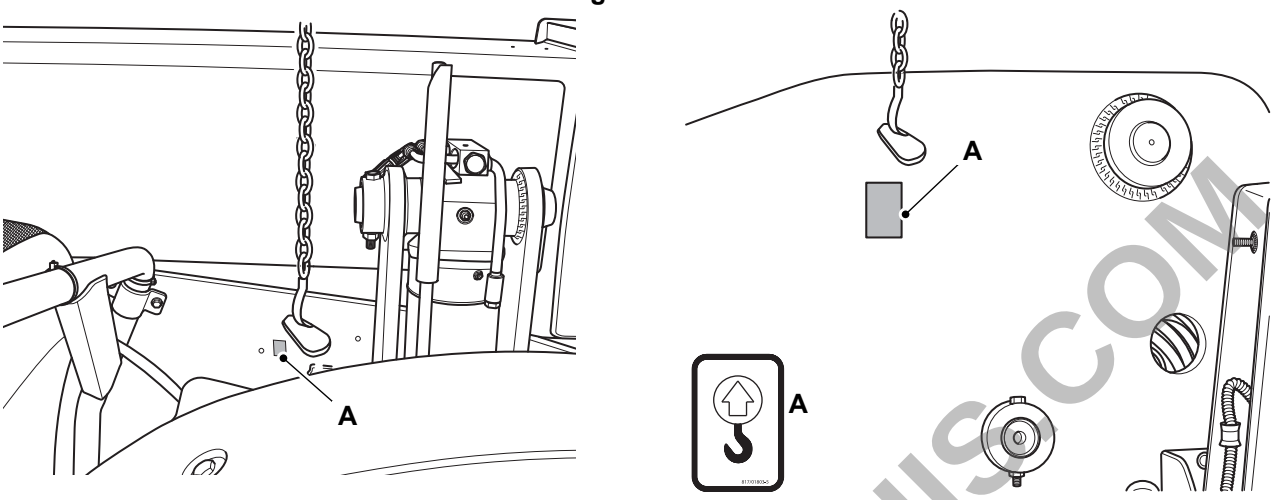


A Lift arm
B Carriage
C Battery
D ROPS (Roll-Over Protective Structure)/FOPS (Falling Object Protective Structure) cab
E Hydraulic tow hitch (Agricultural machines only)
F Mechanical tow hitch

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Figure 233.



A Lifting point

(For: 526-56 [T4i])

⚠ **DANGER** Do not stand underneath the raised load during the lifting/lowering procedure. Stand clear and to one side until the load has been safely lowered. Make sure that the area is clear of other people before lowering the load. If you do not follow these precautions you or others could be killed or seriously injured.

CAUTION You can be injured if you use incorrect or faulty lifting equipment. You must identify the weight of the item to be lifted then choose lifting equipment that is strong enough and suitable for the job. Make sure that lifting equipment is in good condition and complies with all local regulations.

Safe Lifting Procedure

Provided a hoist of adequate capacity is available, it is permissible to lift a machine directly onto a suitable transporting vehicle.

For machine weight and dimensions. Refer to: Static Dimensions (Page 355).

Make sure that the cab door is closed before lifting the machine. Refer to: Doors (Page 43).

1. Remove all attachments.
2. Make the machine safe with the boom lowered.
   Refer to: Maintenance Position - Boom Lowered (Page 276).
3. Remove all loose equipment from machine exterior.
4. Check the unladen weight of the machine.
   Refer to: Static Dimensions (Page 355).
5. Attach lifting equipment to lifting points.
   5.1. The correct lift-point positions are identified on the machine by a label.
6. A suitable lifting beam should be used to align the chains vertically at the chassis lifting points with the drop chains of sufficient length to ensure the lifting beam is clear of the cab.
7. Check that the lifting eye is positioned directly above the machine centre of gravity.

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Checking For Damage

General

Refer to the individual condition checks throughout the Maintenance section. Refer to: Maintenance Schedules (Page 270).

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Work Lights



(If fitted) Three position rocker switch. The switch functions operate when the ignition switch is in the on position. The work lights work independently of the main circuit lights.
Position : 1 = Off
Position : 3 = Front work lights on
Position : 2 = Front/rear/hitch work lights on.

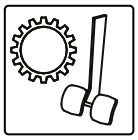
WARNING! *Do not drive on the road with the work lights switched on. You can interfere with other drivers visibility and cause an accident.*

Transmission Mode



Two position rocker switch. The switch functions operate when the ignition switch is in the on position.
Position **1**: Manual
Position **2**: Auto (Push then release)

Transmission Disconnect



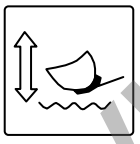
Three position rocker switch. The switch functions operate when the ignition switch is in the on position.
Position **1**: Off
Position **3**: On
Position **2**: Engage (push then release)

Tilt Lock



Two position rocker switch with backlight. The switch functions operate when the ignition switch is in the on position.
Position **1**: Off (Backlight off)
Position **2**: Tilt lock on (Backlight on)

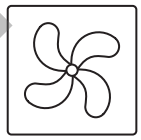
Automatic Smooth Ride System



Three position rocker switch (spring loaded). The switch functions operate when the ignition switch is in the on position.
Position **1**: Off
Position **3**: A = Auto SRS
Position **2**: M = Manual SRS - Push and hold until you see the symbol appear on the dash.

Refer to: Preparing for Travel (Page 67).

Heater



Three position rocker switch (spring loaded). The switch functions operate when the ignition switch is in the on position.
Position **1**: Fan speed down (springloaded)
Position **3**: Default position
Position **2**: Fan speed up (springloaded)

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Figure 370.

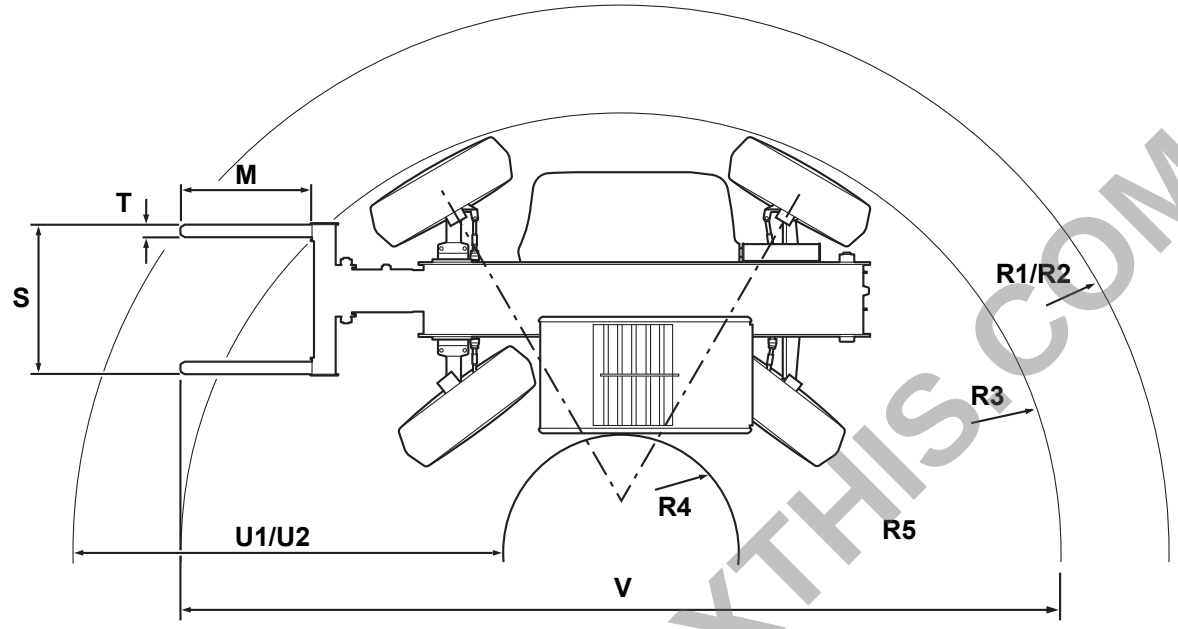


Table 45.

Item	Description	Dimension[1]
M		1,067mm
		1,200mm
R1	1,067mm forks	4,486mm
R2	1,200mm forks	4,619mm
R3		3,605mm
R4		965mm
S		1,226mm
T		103mm
U1	1,067mm forks	3,521mm
U2	1,200mm forks	3,654mm
V	1,067mm forks	7,217mm

(1) Dimensions relative to 440/70 R24 tyres.

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Torque Values

General

ROPS/FOPS

Table 116.

Mounting bolts torque	205N·m

Wheels

Table 117.

Front Wheel Nut Torque	Rear Wheel Nut Torque
680N·m	680N·m

Step/Battery Compartment Cover

Table 118.

Mounting bolt torque	25N·m

Axles

Table 119.

Fill/level plug torque	79N·m

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Figure 108.



When a critical fault is active, the left area of the main screen will show the fault icon and right area of the main screen will show the fault code. The fault indicator is illuminated red. The buzzer sounds when a critical fault is active. It sounds until the critical fault is no longer active.

Figure 109.



Figure 110.



Warning Lights

⚠ **CAUTION** If any of the audible/visual warnings operate while the engine is running, stop the engine as soon as it is safe to do so and rectify the fault.

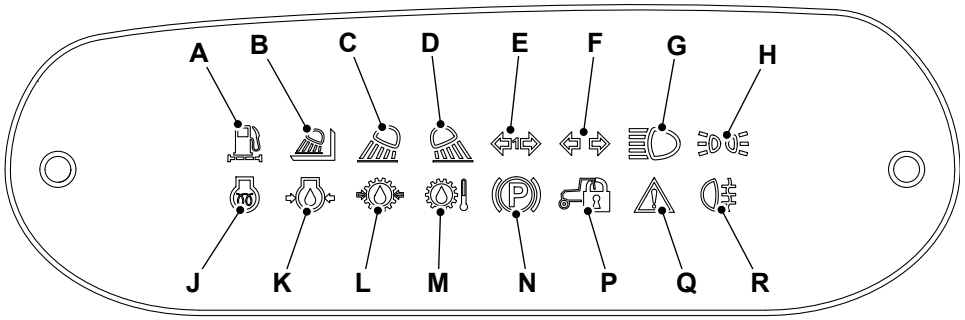
The warning lights are grouped together on a panel located on the dash board.

When a warning light comes on an alarm will sound (depending on security of the condition). The only way to cancel the alarm is to set the ignition switch to position '0'. The problem can then be rectified.

Do not use the machine if it has a fault condition, or you may damage the engine and/or the transmission.

All instruments and indicators will be turned off when the ignition switch is set to off (the hazard warning indicator will still operate if the hazard warning lights are switched on).

Figure 111.



A Low fuel indicator - Not used. Information displayed on instrument panel.

B Boom work light - Visual (Amber Light). Illuminates when the boom work lights are switched on.

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Digit 8	Gearbox Model
M	4 Speed (SS700)
N	4 Speed (PS750)

Table 6.

Digit 9
Random check letter. The check letter is used to verify the authenticity of a machine's PIN

Table 7.

Digit 10 to 17
Machine serial number. Each machine has a unique serial number.

European Tractor Type Approved Builds

Figure 5.

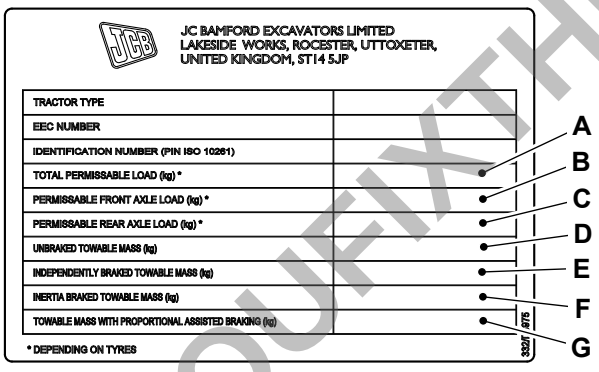


Table 8. Hitch Descriptions

H1	JCB Hydraulic Pick-up Hitch
H2/H3	Rockinger Fixed Clevis (Auto & Manual)
H4/H5/H6	Rockinger Ladder Clevis (Top Position)
H4b/H5b/H6b	Rockinger Ladder Clevis (Bottom Position)
H7/H8	Rockinger Ladder with Piton/ Ball Ø80
H9	JCB Ladder with Clevis (Manual)
H10	JCB Piton

Table 9.

			5TA	5TB	5TC	5TD
	Item		**531-70**	**541-70**	**536-60**	**535-95**
			kg	**kg**	**kg**	**kg**
A	Total Permissible Mass		10,250	10,250	10,250	10,250
B	Permissible Front Axle Load(1)	From	2,400	2,400	2,400	2,400
		To	8,500	8,500	8,500	8,500
C	Permissible Rear Axle Load(1)	From	2,400	2,400	2,400	2,400
		To	7,500	7,500	7,500	7,500
D	Unbraked Towable Mass		750	750	750	750
E	Independently Braked Towable Mass		6,000	6,000	6,000	6,000
F	Inertia Braked Towable Mass		3,500	3,500	3,500	3,500
G	Towable Mass Fitted with a Proportionally Assisted Braking System	H1	11,570	9,915	11,250	9,205
		H2-H10	17,865	16,840	17,735	14,890

(1) Dependent on tyre option.

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3. For every degree below 0 degrees Celsius the engine should be left at low idle for one minute.
4. With the engine at approximately 1500 rpm:
   4.1. Raise and lower the lift arm five times.
   4.2. Extend and retract the lift arm five times.
   4.3. Dump and crowd the carriage five times.

Operating in High Temperatures

1. Use the correct viscosity engine lubricating oil.
2. Use the correct coolant mixture.
3. Check the coolant system regularly, keep the coolant at the correct level. Make sure there are no leaks.
4. Keep the cooling pack and engine clean, regularly remove dirt and debris from the cooling pack and the engine.
5. Check the air vents. Make sure that the air vents to and from the engine compartment are not blocked.
6. Check the engine pre-cleaner regularly (if installed).
7. Check the battery electrolyte level.

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3. Install a charged battery.
4. Start the engine.
5. Operate the hydraulic controls. Make sure that the hydraulic functions operate correctly.
6. Prepare the machine for storage.

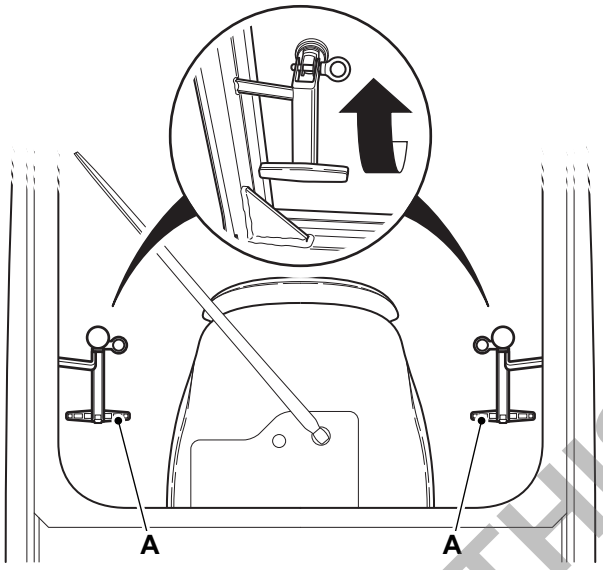
Take out of Storage

1. Examine the coolant condition. Replace if necessary.
2. Examine all fluid levels. If necessary replace the fluid or add more fluid.
3. Clean the machine to remove all unwanted material and corrosive products. Dry the machine to remove solvents and moisture
4. Remove the grease or petroleum jelly from the ram piston rods.
5. Install a charged battery.
6. Start the engine.
7. Operate the hydraulic controls. Make sure that the hydraulic functions operate correctly.

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Figure 36.



A Catches

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(For: 536-70 [T4i], 536-70LP [T4i])

Table 87.

Description	Weight
Maximum lift capacity	3,600kg
Lift capacity to full height	2,500kg
Lift capacity at full reach	1,500kg

Table 88.

Description	Length
Maximum lift height	7,000mm
Reach at maximum lift height	480mm
Maximum forward reach	3,700mm
Reach with 1t load	3,700mm
Placing height	6,300mm

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1. Park the machine on solid, level ground with the engine running.
2. Apply the park brake and place the forward/reverse lever in the neutral position.
3. The green light at the bottom of the display will illuminate to show that the indicator is receiving power. Refer to Figure 203.
4. Press and hold the display button.
   4.1. The display will cycle through the volume and brightness options, pausing for a short period of time to demonstrate each option.
   Duration: 3s
5. Release the button during the required demonstration to select the option.

Diagnostic Fault Codes

⚠ **WARNING** If the Load Moment Indicator is faulty, contact your JCB dealer. Do not try to repair it yourself.

When the system detects a fault, the audible alarm will sound and various combinations of lights on the display will indicate a fault code for approximately 10s.

The audible alarm and the fault code display cancel after 10s and all LED on the display will flash continuously as long as the fault remains. Press and release display button to show the fault code for a further 10s.

When the fault clears, the display will return to normal.

If any of these fault codes are displayed, switch the ignition key off and on again. Contact your JCB distributor if the fault does not clear.

Error code 1: Transducer signal fault - Transducer disconnected or wiring damaged.

Figure 206.



Error code 2: Calibration out of range - System is incorrectly calibrated.

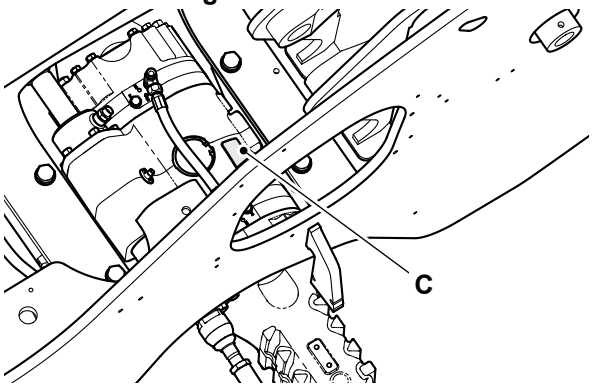
Figure 207.



Error code 3: Calibration required - System not calibrated.

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Figure 8. Rear axle

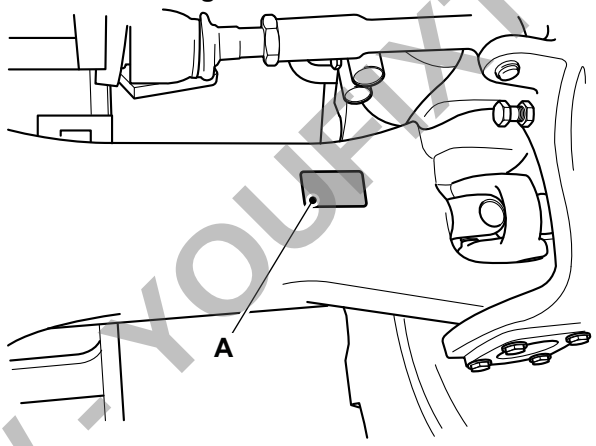


C Data plate - rear axle

(Otherwise)

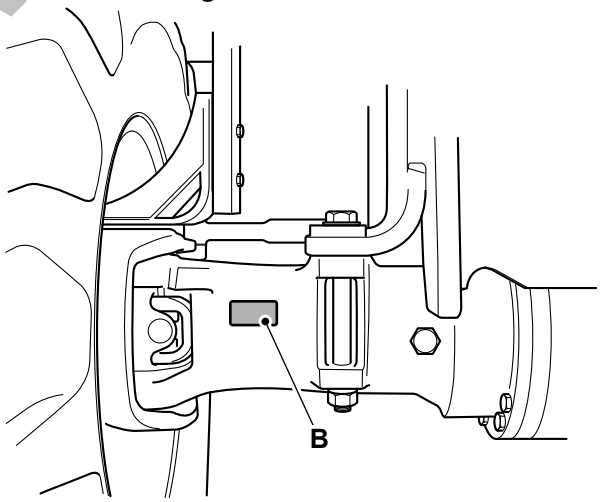
The axles have a serial number stamped on a data plate as shown.

Figure 9. Front axle



A Data plate - front axle

Figure 10. Rear axle



B Data plate - rear axle

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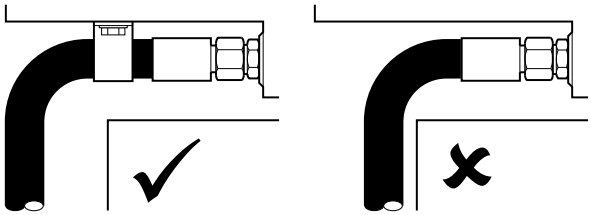
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5.2. Make sure that the hose does not touch hot parts. High ambient temperatures can cause the hose to fail.

5.3. Make sure that the hose does not touch parts which can rub or cause abrasion.

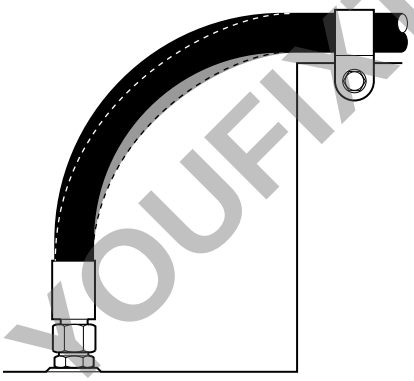
5.4. Use the hose clamps (where possible) to support long hose runs and keep the hoses away from moving parts, etc.

Figure 242.



5.5. To allow for length changes when the hose is pressurised, do not clamp at the bend. The curve absorbs the change.

Figure 243.



6. Check for leaks:

   6.1. Start the engine.

   6.2. Operate the related controls to increase the pressure in the hydraulic system.

   6.3. Stop the engine then remove the ignition key.

   6.4. Check for indications of leakage at the hose connections. Correct, as necessary.

Disconnecting the Hydraulic Hoses

1. Make the machine safe.
   Refer to: Maintenance Positions (Page 276).
2. Vent the hydraulic system.
   Refer to: Discharge (Page 341).
3. Disconnect the hoses.
4. Check the hoses and adaptors for damage.
   Refer to: Checking For Damage (Page 259).
5. If necessary, install the blanking caps.
6. Check for leaks:

   6.1. Start the engine.

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Safety

Safety - Yours and Others

All machinery can be hazardous. When a machine is correctly operated and maintained, it is a safe machine to work with. When it is carelessly operated or poorly maintained it can become a danger to you (the operator) and others.

In this manual and on the machine you will find warning messages, read and understand them. They inform you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your employer or JCB dealer to explain them.

Safety is not just a matter of responding to the warnings. All the time you are working on or with the machine you must be thinking of what hazards there might be and how to avoid them.

Do not work with the machine until you are sure that you can control it.

Do not start any work until you are sure that you and those around you will be safe.

If you are not sure of anything, about the machine or the work, ask someone who knows. Do not assume anything.

Remember:

- Be careful
- Be alert
- Be safe.

Safety Warnings

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

The signal word 'DANGER' indicates a hazardous situation which, if not avoided, will result in death or serious injury.

The signal word 'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

The signal word 'CAUTION' indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

The signal word 'Notice' indicates a hazardous situation which, if not avoided, could result in machine damage.

The safety alert system (shown) also helps to identify important safety messages in this manual and on the machine. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

Figure 2. The safety alert system



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Introduction
About this Manual

Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

Model	From:	To:
526-56 [T4i]	2336575	2356575
531-70 [T4i]	2336575	2356575
533-105 [T4i]	2336575	2356575
535-95 [T4i]	2336575	2356575
535-v125 [T4i]	2336575	2356575
535-v140 [T4i]	2336575	2356575
536-60 [T4i]	2336575	2356575
536-70 [T4i]	2336575	2356575
536-70LP [T4i]	2336575	2356575
540-140 [T4i]	2336575	2356575
540-170 [T4i]	2336575	2356575
540-200 [T4i]	2336575	2356575
540-v140 [T4i]	2336575	2356575
541-70 [T4i]	2336575	2356575
550-80 [T4i]	2336575	2356575
560-80 [T4i]	2336575	2356575

Using the Manual

This operator's manual is arranged to give you a good understanding of the machine and its safe operation. It also contains maintenance and technical data.

Read this manual from the front to the back before you use the machine for the first time, even if you have used machines of a similar/same type before as the technical specification, systems and controls of the machine may have changed. Particular attention must be given to all the safety aspects of operating and maintaining the machine.

If there is anything you are not sure about, ask your JCB dealer or employer. Do not guess, you or others could be killed or seriously injured.

The general and specific warnings in this section are repeated throughout the manual. Read all the safety statements regularly, so you do not forget them. Remember that the best operators are the safest operators.

The illustrations in this manual are for guidance only. Where the machines are different, the text and or the illustration will specify.

The manufacturer's policy is one of continuous improvement. The right to change the specification of the machine without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the machine and the descriptions contained in this manual.

All of the optional equipment included in this manual may not be available in all territories

Left-Hand Side, Right-Hand Side

In this manual, 'left' and 'right' mean your left and right when you are seated correctly in the machine.

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Notes:

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