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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, you must 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 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 symbol (shown) also helps to identify important safety messages in this manual. When you see this symbol your safety is involved, carefully read the message that follows.

Figure 4. The safety alert system symbol

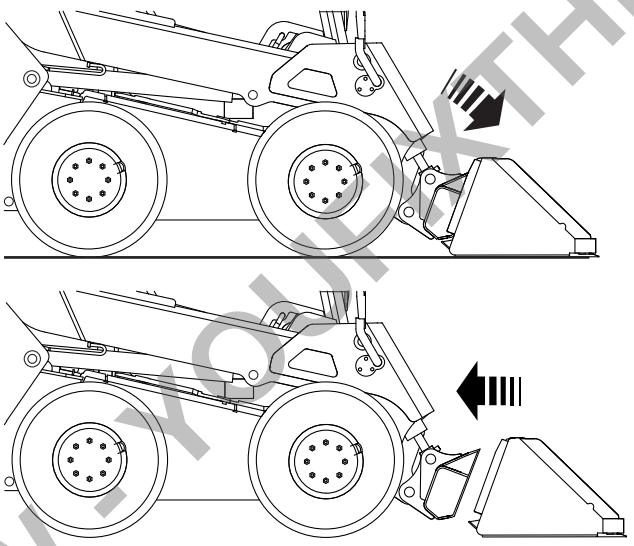


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5. 5. If attachment has connected auxiliary hydraulic couplings, stop the engine.
   5.1. Remove the ignition key or if the keyless ignition option is fitted wait.
   Duration: 15s
   5.2. Raise the safety control locks and dismount the machine.
   5.3. Relieve auxiliary circuit pressure and disconnect the attachment tail hoses from the lift arm couplings.
   Refer to: Connecting/Disconnecting Hydraulic Hoses (Page 152).
   5.4. Return to the cab seat, lower the safety control locks and restart the engine.
6. Lower the lift arm fully to bring the Quickhitch plate attachment bracket below the level of the lips of the attachment interface.
7. Operate the lift arm joystick control lever as if to roll forward the attachment. When the Quickhitch plate attachment bracket has disengaged from the lips on the attachment interface, reverse the machine clear.

Figure 175.



Engaging the Attachments

1. Align the machine square to the shovel/attachment.
2. Verify that the Quickhitch locking pins are fully retracted and the red Quickhitch indicator is visible prior to engaging the Quickhitch plate attachment bracket into the attachment interface. Refer to Figure 174. Refer to Figure 177.
3. Lower the lift arm fully to bring the Quickhitch plate attachment bracket below the level of the lips on the attachment interface.
4. Drive the machine slowly forward. Stop when the Quickhitch plate attachment bracket just touches the attachment interface.
5. Raise the lift arm and engage the Quickhitch plate attachment bracket in the lips on the attachment interface. Stop the movement as soon as the Quickithch plate attachment bracket is engaged with the attachment interface.

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(For: 250 [T3], 250 [T4F], 250T [T3], 250T [T4F], 270 [T3], 270 [T4F], 270T [T3], 270T [T4], 300 [T3], 300 [T4F], 300T [T3], 300T [T4F], 320T [T3], 320T [T4F], 325T [T4F], 330 [T3], 330 [T4F], 2476302-2477300, 2478301-2478700)

Before selecting an attachment for use, assess the application and select the appropriate attachment. The density of any materials being handled will affect the selection of the appropriate attachment.

Remember, do not operate attachments until you have read and fully understand the attachment operating instructions.

These attachments will help increase the productivity of your machine, for more information contact your JCB dealer.

Do not operate or work with attachments until the machine hydraulic oil has reached its normal working temperature.

Hydraulic attachments are only compatible with auxiliary couplers positioned on the right hand side of the lift arm, and not with the left hand auxiliary coupler option.

*Denotes compatible with this machine.

Table 7. Dirt/General Purpose Buckets

Part #	Item	JCB Model Name	250	260, 270	300	330	225T, 250T	260T, 270T	300T	320T
335/E0153	54" Dirt/GP Bucket / 12.1 cu. ft. Capacity	DB54	*	*	*	*	*	*	*	*
335/E0229	60" Dirt/GP Bucket / 13.1 cu. ft. Capacity	DB60	*	*	*	*	*	*	*	*
335/E0252	66" Dirt/GP Bucket / 13.9 cu. ft. Capacity	DB66	*	*	*	*	*	*	*	*
335/E0997	68" Dirt/GP Bucket / 14.1 cu. ft. Capacity	DB68	*	*	*	*	*	*	*	*
335/E0997	72" Dirt/GP Bucket / 15.4 cu. ft. Capacity	DB72	*	*	*	*	*	*	*	*
335/E1009	75" Dirt/GP Bucket / 16.4 cu. ft. Capacity	DB75	*	*	*	*	*	*	*	*
335/E1014	78" Dirt/GP Bucket / 16.7 cu. ft. Capacity	DB78	*	*	*	*	*	*	*	*
335/E1019	84" Dirt/GP Bucket / 18.1 cu. ft. Capacity	DB84			*	*	*	*	*	*

Table 8. Landscape Buckets

Part #	Item	JCB Model Name	250	260, 270	300	330	225T, 250T	260T, 270T	300T	320T
333/L8820	54" Landscape Bucket / 14 cu. ft. Capacity	LSB54	*	*	*	*	*	*	*	*
333/L8821	60" Landscape Bucket / 15 cu. ft. Capacity	LSB60	*	*	*	*	*	*	*	*
332/L1826	66" Landscape Bucket / 16 cu. ft. Capacity	LSB66	*	*	*	*	*	*	*	*
332/L1827	72" Landscape Bucket / 19.2 cu. ft. Capacity	LSB72	*	*	*	*	*	*	*	*
332/L1828	78" Landscape Bucket / 20.9 cu. ft. Capacity	LSB78	*	*	*	*	*	*	*	*
332/X3214	84" Landscape Bucket / 22.7 cu. ft. Capacity	LSB84			*	*	*	*	*	*

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	Short drum between flanges	203mm
Total gear reduction		36:1
Static input torque requirement (to start maximum load)		117N·m
Dynamic input torque requirement (to operate maximum load)		104N·m
Maximum input flow a t rated load		57L/min
SAE (Society of Automotive Engineers) J706 duty cycle rating		92m
Approximate shipping weight		39kg
Sound level at 1.83m		85 dB(A)
		84 dB(C)

Table 103. Hydraulic performance data

Wire rope size	Layer	Line Pull	Cumulative wire rope capacity[1]
12mm	1	6,818kg	7m
	2	5,574kg	14.9m
	3	4,750kg	25m

(1) Capacities listed are to meet DIN 15020 standards. Other international standards may allow more or less wire rope capacity. For short drum capacities, reduce the values listed in the table by 20%.

Troubleshooting

Table 104.

Maximum pressure at the motor inlet (P1/P2)
150bar (2,173.9psi)

Table 105.

Problem	Possible cause	Corrective action
Winch does not hold load.	Wire rope is on drum backwards.	Remove all wire rope and re-spool in the proper direction.
	Load exceeds winch rating.	Refer to the winch operator's manual for the correct line pull rating for your winch. Do not exceed the line pull rating shown on the identification label.
	Brake inside winch drum is badly worn or broken.	Replace brake assembly.
Brake overheats and will not hold load.	Wire rope is spooled on drum in the wrong direction. Winch is working against the brake in the power-in mode.	Wire rope must always spool onto drum as shown on winch drum rotation label. Winch is equipped with automatic brake and will not function if wire rope spools in direction opposite of power-in drum rotation label. Rope spooling may accidentally be reversed by running wire rope all the way out and re-spooling in with control switch in power-out mode.
	Load exceeds rating for winch.	Refer to Operator's Manual for the correct line pull rating for your winch. Do not exceed line pull rating as indicated on winch identification label.

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Visibility Diagrams

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Maintenance Schedules

General

⚠ **WARNING** Maintenance must be done only by suitably qualified and competent persons.

Before doing any maintenance make sure the machine is safe, it must be correctly parked on solid, level ground.

To prevent anyone starting the engine, remove the ignition key. Disconnect the battery when you are not using electrical power. If you do not take these precautions you could be killed or injured.

A badly maintained machine is a danger to the operator and the people working around the operator. Make sure that the regular maintenance and lubrication tasks listed in the service schedules are done to keep the machine in a safe and efficient working condition.

To ensure the correct functioning of the engine and emissions control system all operation and maintenance must be conducted in accordance with the instructions in this manual. Incorrect operation, maintenance or repair of the engine and emissions control system may lead to reduced product life, loss of performance or malfunctions. It is the machine owner's responsibility to ensure maintenance is conducted properly in accordance with the requirements in this manual.

Apart from the daily tasks, the schedules are based on the machine running hours. Keep a regular check on the hourmeter readings to correctly gauge the service intervals. When there is no hourmeter installed, use the calendar equivalents to determine the service intervals.

Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are corrected immediately.

More frequent checks of engine components than the engine manufacturer recommends do not invalidate emissions warranty.

How to Use the Maintenance Schedules

The schedules show the service tasks which must be done and their intervals.

The services must be done at either the hourly interval or the calendar equivalent, whichever occurs first.

The intervals given in the schedules must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the intervals.

Table 106.

○	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
□	We recommend that a Service Engineer completes the service task. Details of how to complete the service task are given in the Service Manual.

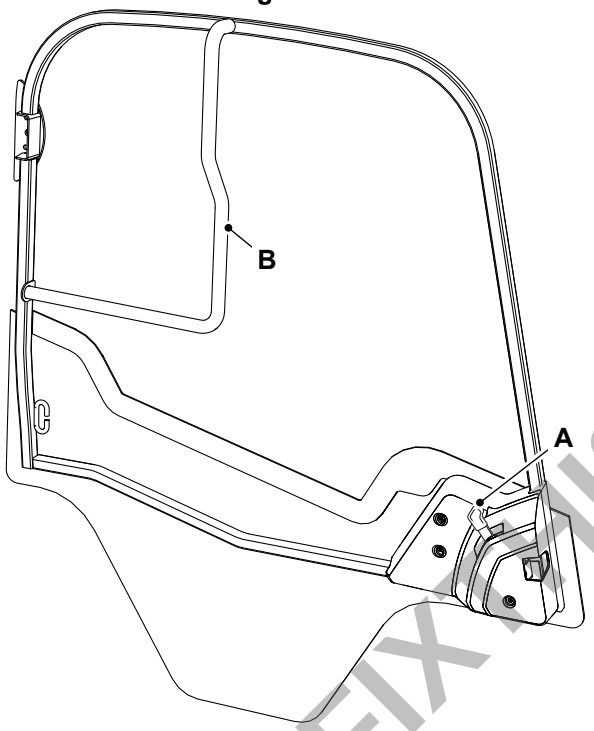
Maintenance Intervals

Table 107.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
500	Six months
1000	Yearly
2000	Two years

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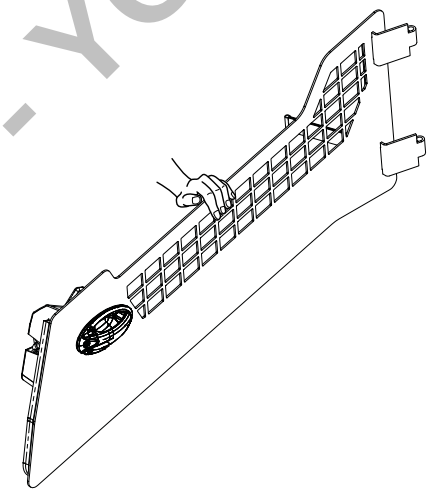
Figure 22.



B Closing bar **C** Lever

To open the door from the inside, pull lever to release the latch. Refer to Figure 22.

Figure 23.



Close the canopy door by pulling on the top of it. Refer to Figure 23.

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Tracks

Rubber

Check (Operation)

(For: 250T [T3], 250T [T4F], 270T [T3], 270T [T4], 300T [T3], 300T [T4F], 320T [T3], 320T [T4F], 325T [T4F], 3TS-8T [T4F])

⚠ **WARNING** Recoil unit servicing must only be carried out by JCB dealers. You could be killed or injured if you tamper with it.

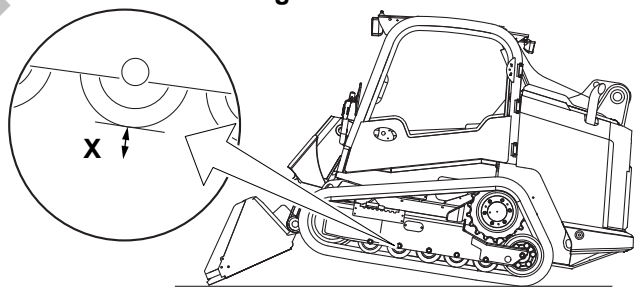
Notice: Always make sure that the track tension measurement is not less than specified or severe strain to the track will result.

Track Tension

Correct track tension is important for good performance and to prevent the tracks from dismounting. The track tension is controlled by the forward idler which is attached to a grease filled hydraulic cylinder. The track tension should be checked as follows:

1. Position machine on a smooth flat surface
2. Thoroughly clean the track, making sure that all debris is removed from around the sprocket and rollers. Drive the machine backwards and forwards while cleaning.
3. Lift the tracks of the ground using dumped shovel.
4. Measure the gap between the middle bottom roller and the track.
   Refer to: General (Page 308).
5. If adjustment is required, unscrew bolts and remove access plate.
6. To tighten the track, pump grease into the nipple using a grease gun. To loosen the track, carefully unscrew hexagon plug and allow the grease to flow into a suitable container.
7. When correct adjustment is achieved, replace the access plate and torque tighten the bolts.
   Refer to: Torque Values (Page 301).
8. Repeat for opposite track.

Figure 240.



X Gap between middle bottom roller and track

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Mirrors

General

(For: 250 [T3], 250 [T4F], 250T [T3], 250T [T4F], 270 [T3], 270 [T4F], 270T [T3], 270T [T4], 300 [T3], 300 [T4F], 300T [T3], 300T [T4F], 320T [T3], 320T [T4F], 325T [T4F], 330 [T3], 330 [T4F], 3TS-8T [T4F], 3TS-8W [T4F], 2475701-2475900, 2476302-2477300, 2478301-2478700, 2562001-2562300)

The following information is provided so that the operator can minimise visibility hazards when operating the machine.

The visibility map provided in this manual is for guidance and may be used to improve visibility or as part of a risk assessment for work site safe operation, introduction of additional visual aids or site management. Refer to: Risk Assessment (Page 25).

This machine meets the visibility requirements specified in ISO (International Organization for Standardization) 5006:2006. The visibility map shown within the manual is to scale with machine in travel configuration as shown. The machine has been subject to a static visibility assessment with the loader shovel 300mm above the ground. The test simulates operator visibility in establishing lines of sight between the operators eye's and points on the ground at a 12m radius from the machine, and on a boundary line 1.2m above the ground and 1m away from the smallest rectangle that encompasses a plan view of the machine. The visibility map shows the approximate blind spots of direct vision from a 1.2m high and 0.3m wide vertical test object. The operators eye position is 0.68m above and 0.02m in front of seat index point and an eye width of 0.405m as per ISO 5006:2006, representing what a selected operator wearing a seatbelt can approximately see. Whilst based upon ergonomic data (binocular eye spacing, turning of the head and body torso movement), the standard sometimes purposefully restricts/removes movement which is ergonomically achievable in order to improve/ maintain the current state of art. As a consequence, visibility diagrams in accordance with ISO 5006:2006 often report visibility maskings which do not exist in practice.

When operating the machine the operator must continually survey his/her field of vision. It is important that the mirrors are securely fitted and give maximum vision around the machine. The machine should be used in accordance with appropriate worksite organisation and persons should be kept outside of the immediate vicinity of the machine considering the working range of equipment/attachment and speed of movement of the machine.

When a mirror is provided to supplement the operators direct field of vision, it must be adjusted to serve as an aid to the operator in seeing people or obstacles around the machine. The mirror provides indirect vision to hidden areas and improves the effectiveness of the machines usage.

Use of the machine in non-standard travelling configurations, and/or with attachments that result in restriction of the machine visibility should be assessed in accordance with ISO 5006:2006 to determine if further devices and/or worksite controls are required.

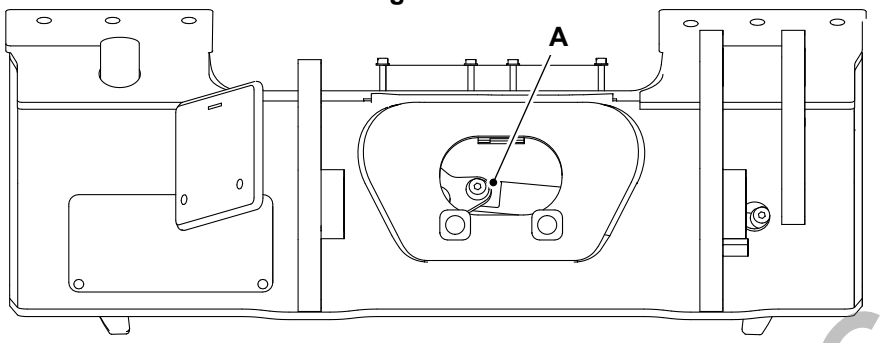
A visibility diagram provided does not represent the visibility requirements as stipulated in ISO 5006:2006. Refer to: Visibility Diagrams (Page 281).

the machine is complaint with the visibility requirements as stipulated in ISO 5006:2006.

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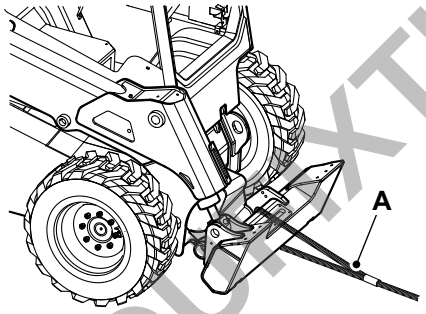
Figure 155.



A Spring-loaded linkage

In the event that towing the machine to a safe location is unavoidable then attach wire rope around the quickhitch, capable of pulling the machine to a maximum towing load of 80kN. Refer to Figure 156.

Figure 156.



A Wire rope

Apply the minimum force to move the machine slowly (not greater than 1km/h (0.6mph)) smoothly and without shocks.

The angle of pull must not exceed 10° in any plane from the longitudinal axis of the machine.

Tow the machine the minimum distance to a safe location for recovery or repair, but do not exceed 20m. Following this procedure the machine should be inspected by a qualified person for damage to the hydraulic motors and the braking system. For assistance, contact your JCB dealer.

Loader Arm (Emergency Operation)

Load Recovery Procedure

During normal operation, the engine must be running before a load can be raised or lowered.

If the engine fails while the load is in the raised position, the load may be lowered as follows:

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.*

1. Make sure the area beneath the load is clear.
2. Open the engine compartment cover.
   Refer to: Access Apertures (Page 214).
3. Move the boom lower lever slowly in a clockwise direction, in-line with the valve body, to lower the load.
4. As soon as the load is lowered, move the boom lower lever in a counterclockwise direction to the closed position, perpendicular to the valve body.

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Power Sockets

Auxiliary Power Socket

Your machine may be installed with one or more 12V auxiliary power sockets, which can be used for mobile phone chargers or other 12V powered devices.

Only connect items which are compatible with the power rating of the socket and have the correct plug.

Always operate the engine during the prolonged use of the electrical accessories, or the battery can discharge.

Make sure that the socket cap is closed when the socket is not in use.

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(For: 250 [T3], 250 [T4F], 2476302-2477300, 2478301-2478700)

Table 129.

	T3	T4
Cab[1]	3,692kg	3,726kg
Canopy[2]	3,632kg	3,666kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 270 [T3], 270 [T4F], 2476302-2477300, 2478301-2478700)

Table 130.

	T3	T4
Cab[1]	3,903kg	3,937kg
Canopy[2]	3,843kg	3,877kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 300 [T3], 300 [T4F], 2476302-2477300, 2478301-2478700)

Table 131.

	T3	T4
Cab[1]	4,044kg	4,213kg
Canopy[2]	3,984kg	4,153kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 330 [T3], 330 [T4F], 2476302-2477300, 2478301-2478700)

Table 132.

	T3	T4
Cab[1]	4,365kg	4,416kg
Canopy[2]	4,305kg	4,356kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater

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and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 3TS-8W [T4F], 2475701-2475900, 2562001-2562300)

Table 133.

Cab[(1)]	4,472kg
Canopy[(2)]	4,412kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 3TS-8T [T4F], 2475701-2475900, 2562001-2562300)

Table 134.

Cab[(1)]	5,722kg
Canopy[(2)]	5,662kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

(For: 250T [T3], 250T [T4F], 2476302-2477300, 2478301-2478700)

Table 135.

	T3	**T4**
Cab[(1)]	4,746kg	4,818kg
Canopy[(2)]	4,686kg	4,758kg

(1) Cab weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, cab glass, heater and no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.
(2) Canopy weights include mass of base machine, with loader arm equipment and empty attachment (78" GP shovel unless otherwise specified) in the most usual configuration with no optional equipment, no glass, no heater, no A/C and with the operator (75kg), full fuel tank and all fluid systems (i.e. hydraulic oil, chaincase oil where applicable, engine oil and engine coolant) at their recommended levels.

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Notes:

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Audible/visual. Icon is red if the battery is not charging- Service required.

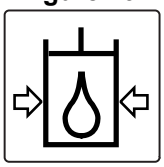
Figure 78.



F Cold start active

Visual. Illuminates when the grid heater is active.

Figure 79.



G Hydraulic oil pressure

Audible/Visual. Illuminates if the hydraulic charge pressure is too low - Service required.

Figure 80.



H Engine oil pressure

Audible/Visual. Illuminates if the engine oil pressure drops too far. Illuminates when the ignition switch is set to position 1 before starting the engine but should go out when the engine starts. If this light remains on stop the engine immediately.

Figure 81.



J Park brake on

Audible/Visual. Illuminates solid if the park brake is applied.

Figure 82.



K Creep

Visual. Indicates that creep speed mode is selected.

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Table 98. Landscape Buckets

Part #	Item	JCB Model Name	3TS-8W	
			Retracted	Extended
333/L8820	54" Landscape Bucket / 14 cu. ft. Capacity	LSB54	*	*
333/L1821	60" Landscape Bucket / 15 cu. ft. Capacity	LSB60	*	*
332/L1826	66" Landscape Bucket / 16 cu. ft. Capacity	LSB66	*	*
332/L1827	72" Landscape Bucket / 19.2 cu. ft. Capacity	LSB72	*	*
332/L1828	78" Landscape Bucket / 20.9 cu. ft. Capacity	LSB78	*	*
332/LX3214	84" Landscape Bucket / 22.7 cu. ft. Capacity	LSB84	*	

84" shovels must not be installed when travelling on a road.

Table 99. Brush Cutters ***Requires Additional Guarding***

Part #	Item	JCB Model Name	3TS-8W	
			Retracted	Extended
333/X5390	60" Brush Cutter - Standard Flow	BC60	*	*
333/X5231	72" Brush Cutter - Standard Flow	BC72	*	*
333/X4409	72" Brush Cutter - High Flow	BC72HF	*	
333/X4383	78" Brush Cutter - High Flow	BC78HF		

Connecting/Disconnecting Hydraulic Hoses

(For: 250 [T3], 250 [T4F], 250T [T3], 250T [T4F], 270 [T3], 270 [T4F], 270T [T3], 270T [T4], 300 [T3], 300 [T4F], 300T [T3], 300T [T4F], 320T [T3], 320T [T4F], 325T [T4F], 330 [T3], 330 [T4F], 3TS-8T [T4F], 3TS-8W [T4F], 2475701-2475900, 2476302-2477300, 2478301-2478700, 2562001-2562300)

⚠ **WARNING** Fine jets of fluid at high pressure can penetrate the skin. Keep face and hands well clear of fluid under pressure and wear personal protective equipment. Hold a piece of cardboard close to suspected leaks and then examine the cardboard for signs of fluid. If fluid penetrates your skin, get medical help immediately.

WARNING Hydraulic fluid at system pressure can injure you. Before connecting or removing any hydraulic hose, residual hydraulic pressure trapped in the service hose line must be vented. Make sure the hose service line has been vented before connecting or removing hoses. Do not start the engine with loose or open hose connections.

Some attachments are hydraulically powered. The following procedures show how to connect and disconnect the hydraulic hoses safely.

Connecting the Hydraulic Hoses

1. Make the machine safe.
   Refer to: Maintenance Positions (Page 204).
2. Vent the hydraulic system.
3. Check the hoses and adaptors for damage.
   Refer to: Check (Condition) (Page 252).
4. Connect the hoses:
   4.1. Make sure that the hose is not twisted. Pressure applied to a twisted hose can cause the hose to fail or the connections to loosen.

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Engine

General

Clean

Engine

Do not allow mud to build up on the engine and transmission. Pay particular attention to the exhaust area, remove all combustible material.

The engine or certain components could be damaged by high pressure washing systems, special precautions must be taken if the engine is to be washed using a high pressure system.

Do not attempt to clean any part of the engine while it is running. Stop the engine and allow it to cool for at least one hour.

1. Disconnect the battery.
2. Do not wash any part of the:
   2.1. Fuel injection pump and injectors.
   2.2. Cold start device.
   2.3. ESOS (Engine Shut-Off Solenoid) if applicable.
   2.4. Electrical connections.
   2.5. ECU (Electronic Control Unit) if applicable.
3. Ensure that the alternator, starter motor and any other electrical components are shielded and not directly cleaned by high pressure cleaning system.

Check (Condition)

Start the engine and check for:

- Excessive smoke
- Excessive vibration
- Excessive noise
- Overheating
- Performance
- Unusual smells.

Oil

Check (Leaks)

Before you start the machine, do a check for oil leaks:

1. Make the machine safe.
2. Get access to the engine compartment (if applicable)
3. Check the engine and the area below for oil leaks.
4. Close the engine cover (if applicable).
5. If necessary, contact your JCB dealer.

Check (Level)

⚠ **WARNING** Never check the oil level or add oil with the engine running. Be careful of hot lubricating oil. Danger of scalding.

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