

WLS 432ZX

Service Manual - WLS 432ZX

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Section 1 - General Information

Notes:



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General Information

Introduction

This publication is designed for the benefit of JCB INDIA LTD. distributor Service Engineers who are receiving, or have received, training by JCB INDIA Technical Training Department.

These personnel should have a sound knowledge of workshop practice, safety procedures, and general techniques

Associated with the maintenance and repair of hydraulic earthmoving equipment

Renewal of oil seals, gaskets, etc., and any component showing obvious signs of wear or damage is expected as a matter of course. It is expected that components will be cleaned and lubricated where appropriate, and that any opened hose or pipe connections will be blanked to prevent excessive loss of hydraulic fluid and ingress of dirt. Finally, please remember above all else **SAFETY MUST COME FIRST!**

The manual is compiled in sections, the first three are numbered and contain information as follows

1 General Information

Includes torque settings and service tools

2 Care & Safety

Includes warnings and cautions pertinent to aspects of workshop procedures etc.

3 Routine Maintenance

Includes service schedules and recommended lubricants for all the machine.

The remaining sections are alphabetically coded and deal with Dismantling, Overhaul etc. of specific components, for example

a Attachments

b Body & Framework

The page numbering in each alphabetically coded section is not continuous. This allows for the insertion of new items in later issues of the manual.

Section contents, technical data, circuit descriptions, operation descriptions etc. are inserted at the beginning of each alphabetically coded section.








Where a torque setting is given as a single figure it may be varied by plus or minus 3%. Torque figures indicated are for dry threads, hence for lubricated threads may be reduced by one third.

'Left Hand' and 'Right Hand' are as viewed from the rear of the machine facing forwards.

Colour Codes

The following colour coding, used on illustrations to denote various conditions of oil pressure and flow, is standardised throughout JCB Service Publications

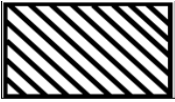


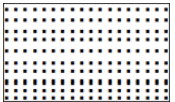
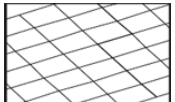

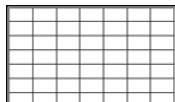
Table 1.

	Red	Full Pressure	
			Pressure generated from operation of a service. Depending on application this may be anything between neutral circuit pressure and M.R.V. operating pressure.
	Pink	Pressure	
			Pressure that is above neutral circuit pressure but lower than that denoted by red.
	Orange	Servo	
			Oil pressure used in controlling a device (servo).
	Blue	Neutral	
			Neutral circuit pressure.
	Green	Exhaust	
	Light Green		
			Oil subjected to a partial vacuum due to a drop in pressure (cavitation).
	Yellow	Lock Up	
			Oil trapped within a chamber or line, preventing movement of components (lock up).

Black and White Codes

The following black and white coding, used on illustrations to denote various conditions of oil pressure and flow, is standardised throughout JCB Service Publications

Table 2.

	<p>Neutral Circuit Pressure.</p>
	<p>Pressure generated by the operation of a service. Depending on application this may be anything between Neutral Circuit Pressure and M.R.V. Operation Pressure.</p>
	<p>Pressure that is above Neutral Circuit Pressure but lower than that denoted above.</p>
	<p>Exhaust.</p>
	<p>Oil subjected to a partial vacuum due to a drop in pressure (cavitation).</p>
	<p>Oil trapped within a chamber or line preventing movement of components (lock-up).</p>
	<p>Oil pressure used in a controlling device (servo).</p>

Identification Plate

Your machine has an identification plate X mounted on the left hand side of the machine. The serial numbers of the machine and its major units are stamped on the plate
 ⇒ [Fig 1. \(□ 1-4\)](#)

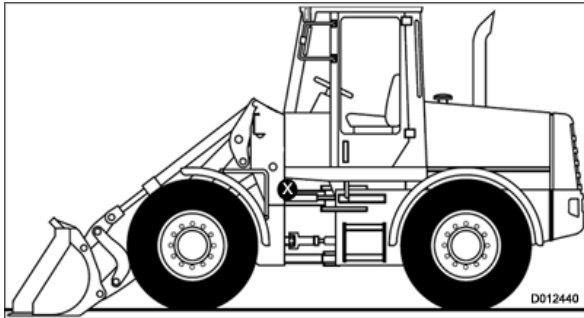


Fig 1.

Explanation of Vehicle Identification Number (VIN)

The serial number of each major unit is also stamped on the unit itself. If a major unit is replaced by a new one, the serial number on the identification plate will be wrong. Either stamp the new number of the unit on the identification plate, or simply stamp out the old number. This will prevent the wrong unit number being quoted when replacement parts are ordered.

The machine and engine serial numbers can help identify exactly the type of equipment you have ⇒ [Fig 2. \(□ 1-4\)](#).

Torque Settings

Use only where no torque setting is specified in the text. Values are for dry threads and may be within three per cent of the figures stated. For lubricated threads the values should be REDUCED by one third ⇒ [Fig 3. \(□ 1-6\)](#).

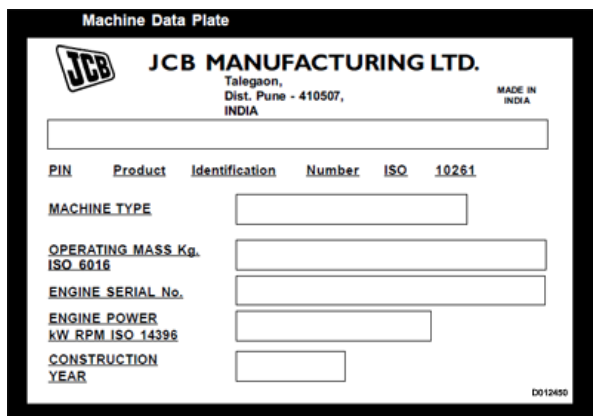


Fig 2.

Table 3.

Bolt Size		Hexagon (A/F)		Torque Settings	
in	(mm)	in	Nm	kgf m	lbf ft
1 /4	(6.3)	7 /16	14	1.4	10
5 /16	(7.9)	1 /2	28	2.8	20
3 /8	(9.5)	9 /16	49	5.0	36
7 /16	(11.1)	5 /8	78	8.0	58
1 /2	(12.7)	3 /4	117	12.0	87
9 /16	(14.3)	13 /16	170	17.3	125
5 /8	(15.9)	15 /16	238	24.3	175
3 /4	(19.0)	1 1 /8	407	41.5	300
7 /8	(22.2)	1 15 /16	650	66.3	480
1	(25.4)	1 1 /2	970	99.0	715
1 1 /4	(31.7)	1 7 /8	1940	198.0	1430
1 1 /2	(38.1)	2 1 /4	3390	345.0	2500

Metric Grade 8.8 Bolts

Table 4.

Bolt Size		Hexagon (A/F)		Torque Settings	
	(mm)	mm	Nm	kgf m	lbf ft
M5	(5)	8	7	0.7	5
M6	(6)	10	12	1.2	9
M8	(8)	13	28	3.0	21
M10	(10)	17	56	5.7	42
M12	(12)	19	98	10	72
M16	(16)	24	244	25	180
M20	(20)	30	476	48	352
M24	(24)	36	822	84	607
M30	(30)	46	1633	166	1205
M36	(36)	55	2854	291	2105

Rivet Nut Bolts/Screws

Table 5.

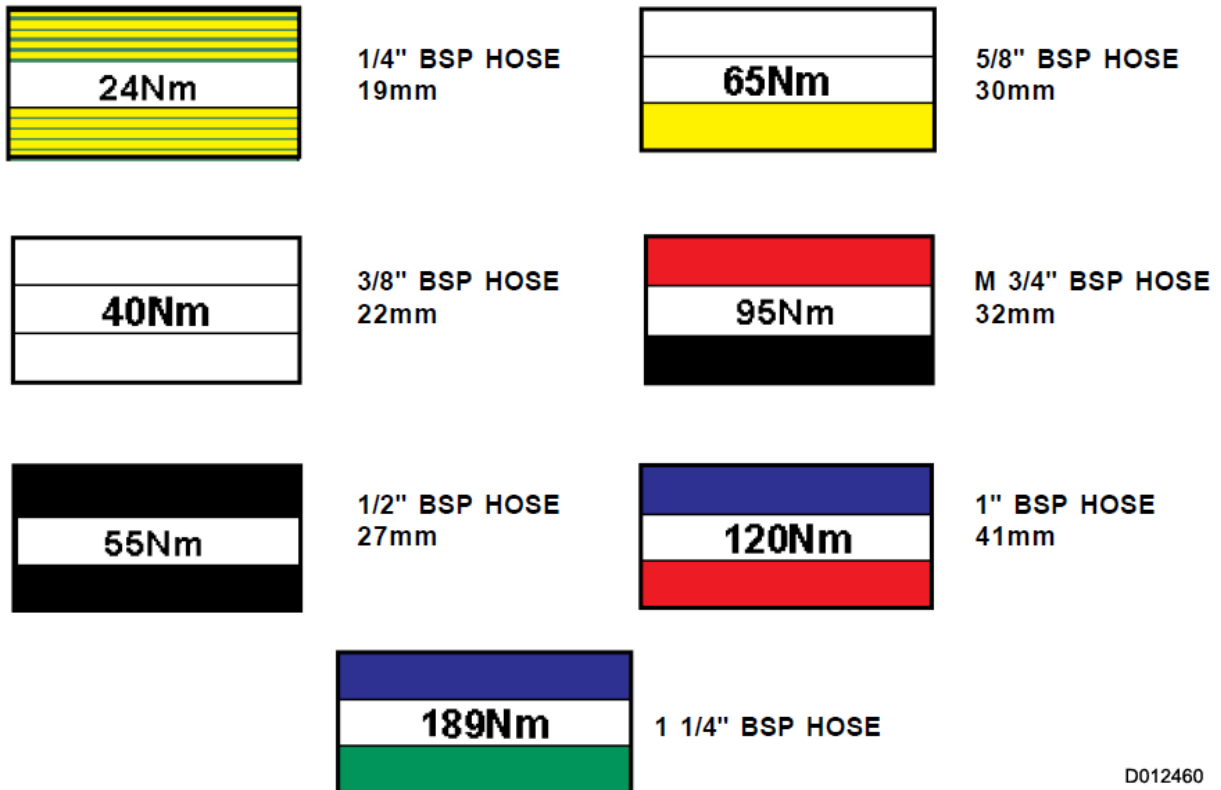
Bolt Size		Torque Settings		(for steel rivet nuts)	
	(mm)	Nm	kgf m	kgf m	
M3	(3)	1.2	0.12	0.9	
M4	(4)	3.0	0.3	2.0	
M5	(5)	6.0	0.6	4.5	
M6	(6)	10.0	1.0	7.5	

M8	(8)	24.0	2.5	18.0
M10	(10)	48.0	4.9	35.5
M12	(12)	82.0	8.4	60.5

Note: All bolts used on JCB machines are high tensile and must not be replaced by bolts of a lesser tensile specification.

Note: All adapters, elbows and hoses should be tightened to JCB standard torque settings unless stated otherwise

HOSE END FITTINGS



D012460

Fig 3.

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