

Liftall 1253/1202/1553/1554

Service Manual - Liftall 1253/1202/1553/1554

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General Information

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General Information

Machine Identification

Machine Identification Plate

Your machine has an identification plate **X** mounted on the Chassis as shown. The serial numbers of the machine and its major units are stamped on the plate.

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 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 1.](#) ([1-1](#)).

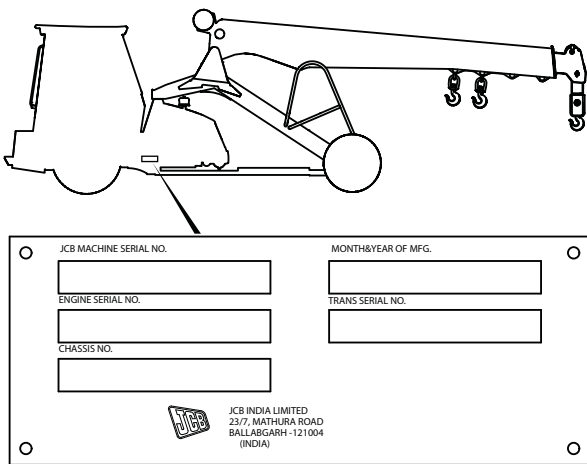


Fig 1.

P009450

Unit Identification

Engine Serial Plate

The engine serial number is stamped on a label which is fastened to the left side of the cylinder block (looking from the rear) → [Fig 2.](#) ([1-1](#)).

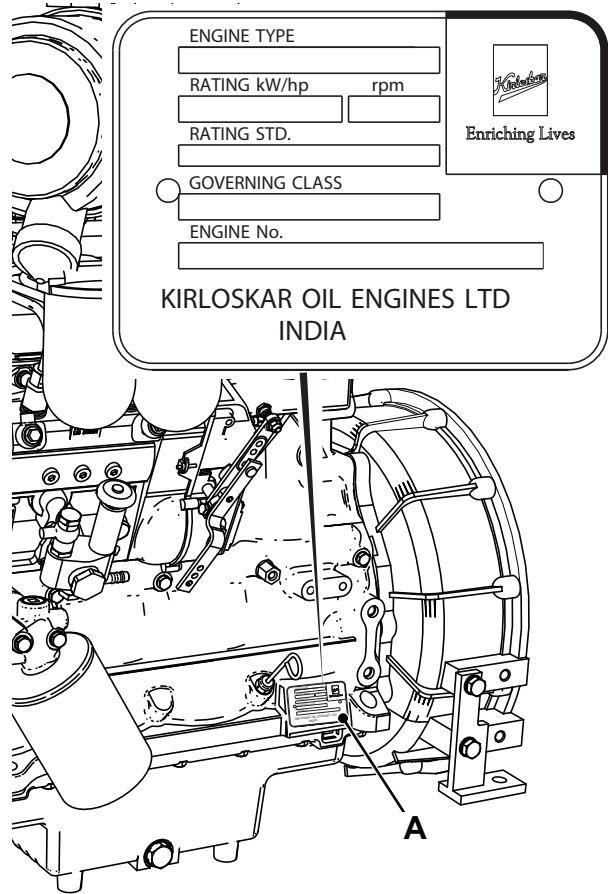


Fig 2.

D023815

Transmission Axle Serial Plate

The transmission axle serial number is stamped on a plate mounted to the front face of the axle, as shown → [Fig 3.](#) ([1-2](#)).

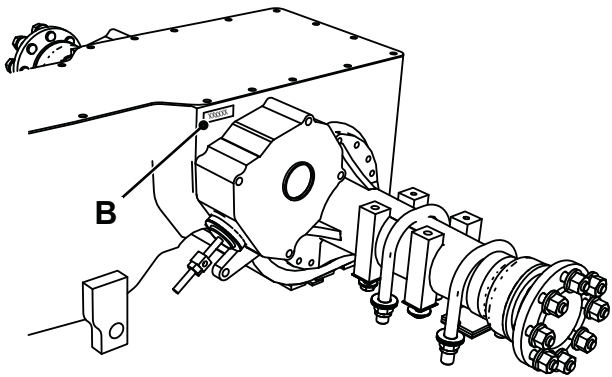


Fig 3.

D025810

Hydraulic Pump Serial Plate

The hydraulic pump serial number is stamped on a label which is mounted on the pump → Fig 4. (□ 1-2).

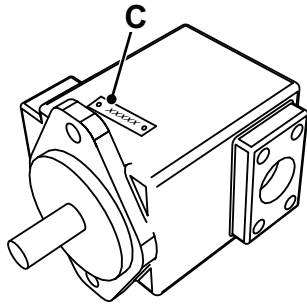


Fig 4.

D025820

Winch Motor Serial Plate

The winch motor serial number is stamped on a label D which is mounted on motor → Fig 5. (□ 1-2).

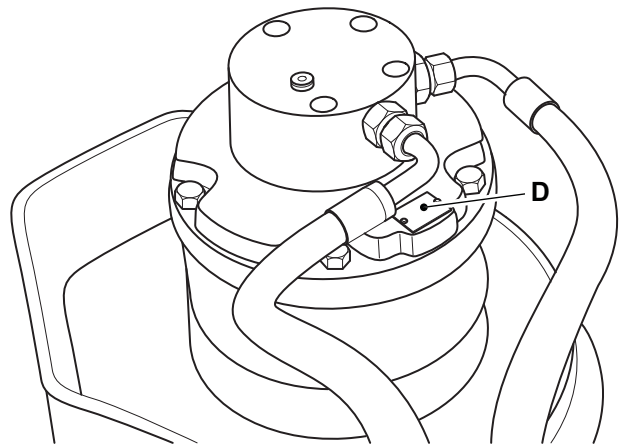
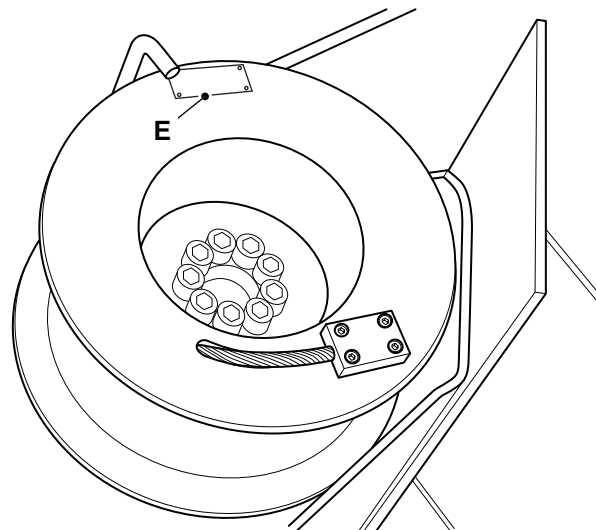


Fig 5.

D003150

Winch Serial Plate

The winch serial number is stamped on a lable E which is mounted on winch drum.



Load Chart

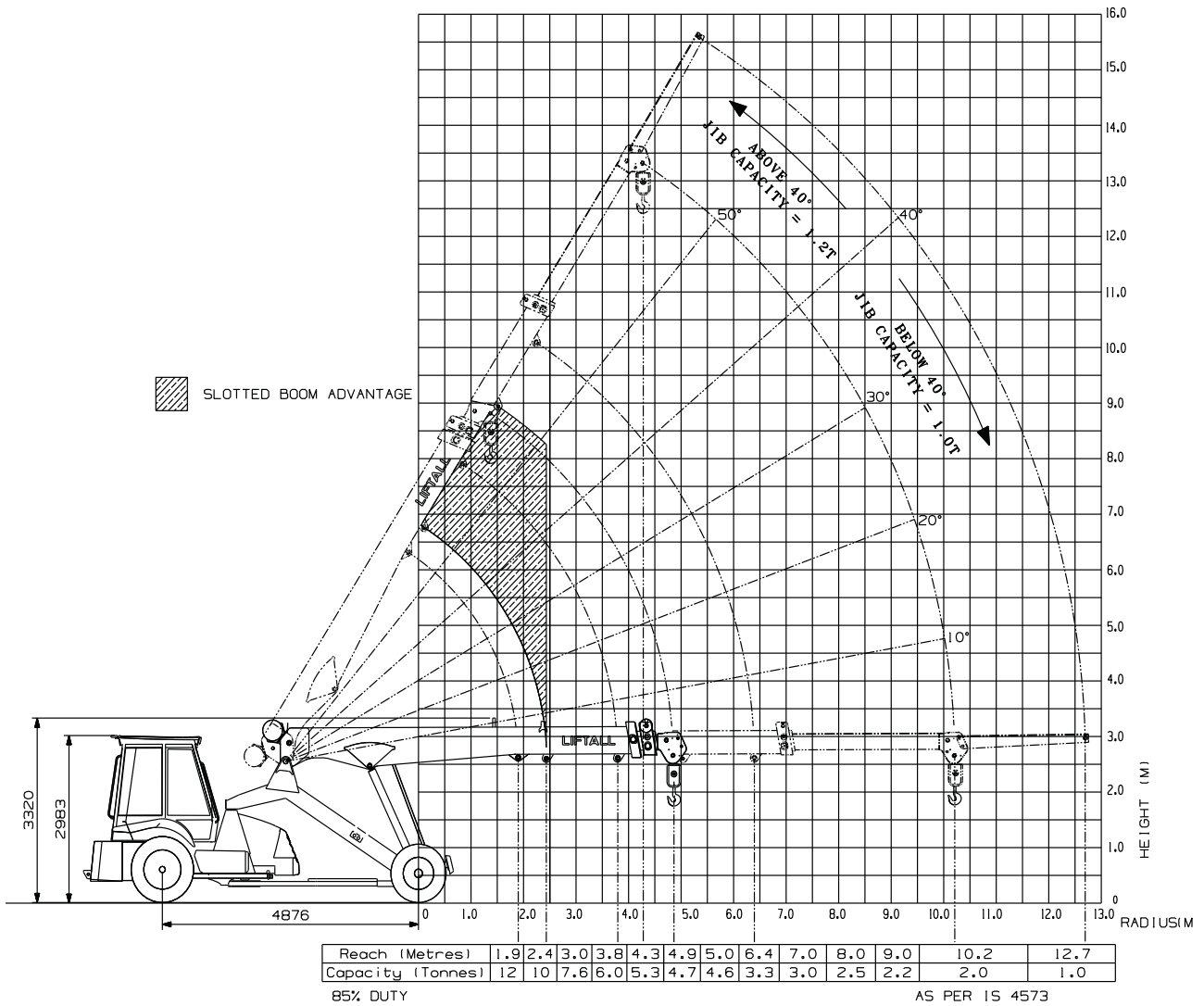


Fig 6. Liftall 1253

D029380

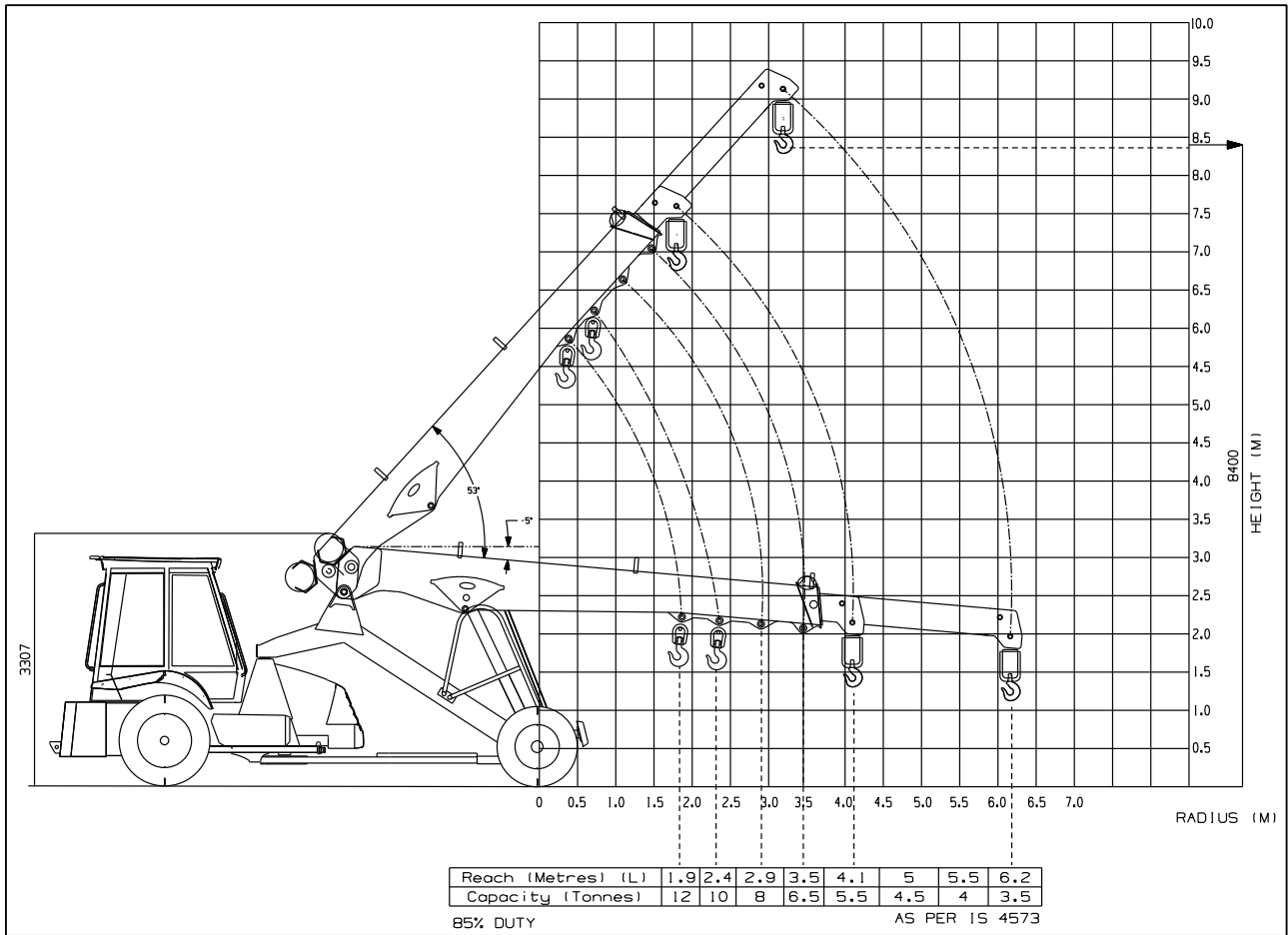


Fig 7. Liftall 1202

D029390

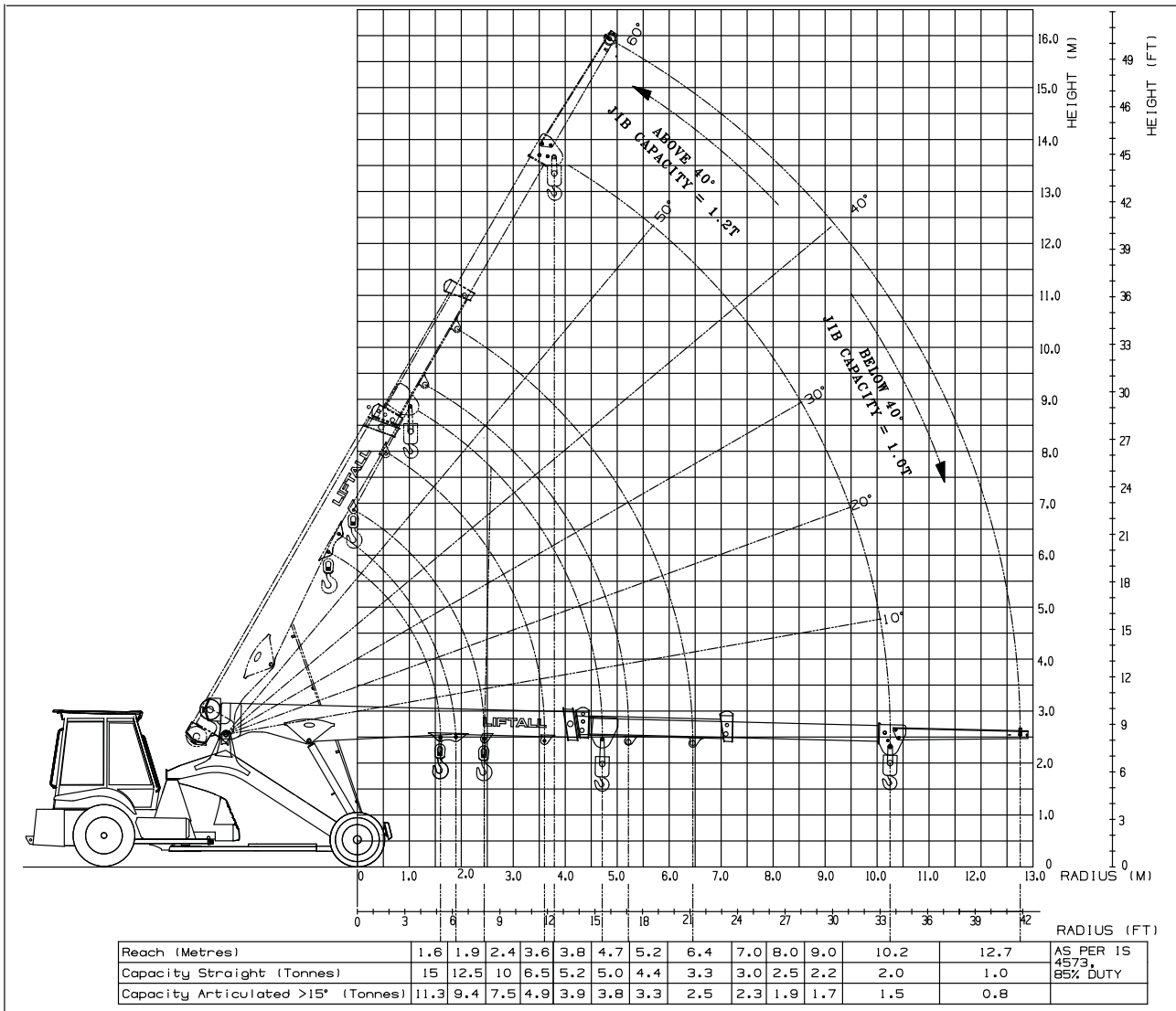
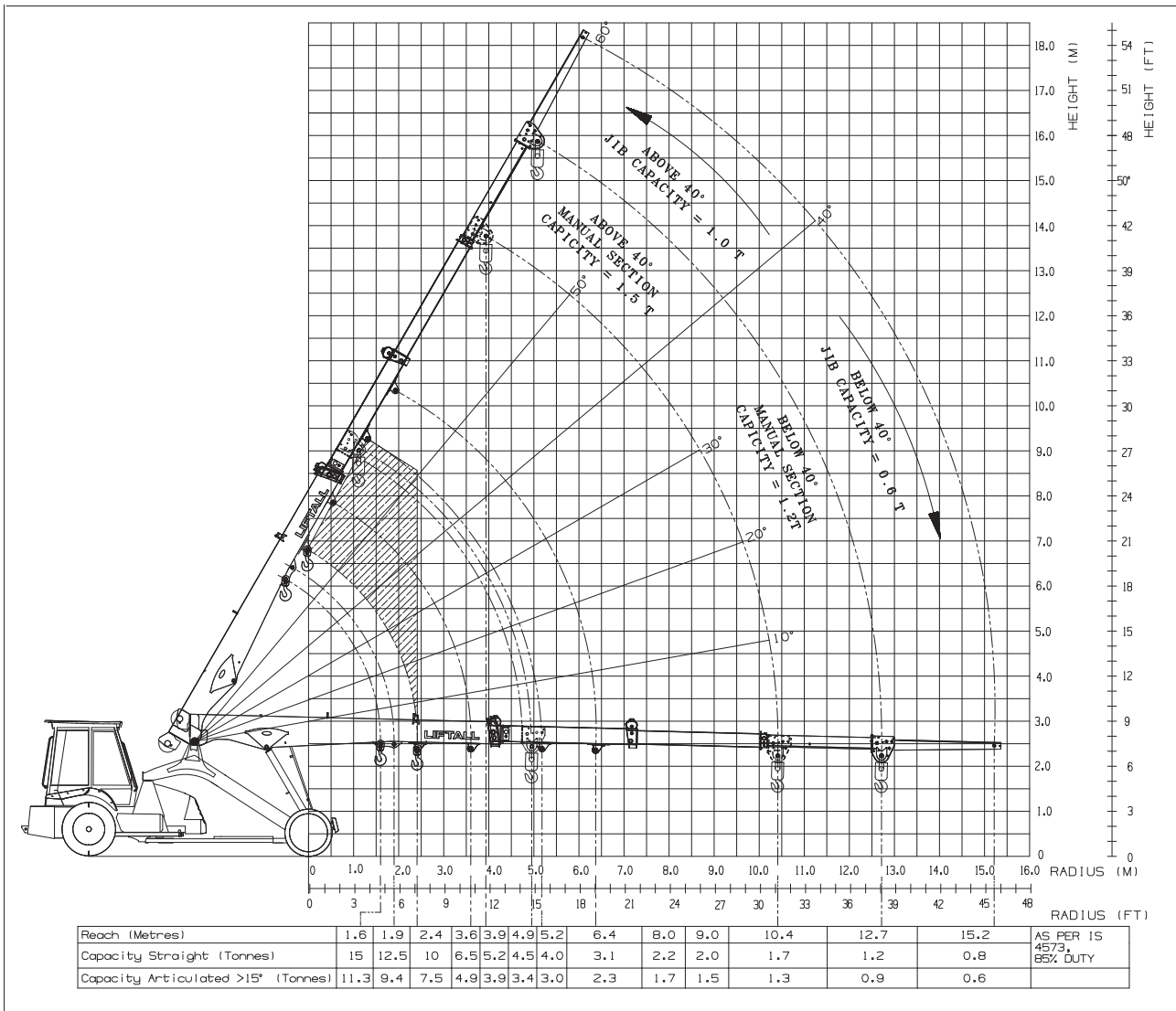


Fig 8. Liftall 1553

D031140



D064850

Fig 9. Liftall 1554

Torque

Torque Settings

Values are for dry threads and may be within three percent of the figures stated. For lubricated thread the values should be reduced by one third.

Use only where no torque setting is specified in the test.

Table 1.

Bolt Size	Hexagon (A/F)		Torque Setting		
	In	(mm)	In	Nm	Kgfm
1/4	(6.3)	7/16	14	1.4	10
5/18	(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
9/10	(14.3)	13/16	170	17.3	125
5/8	(15.9)	15/16	238	24.3	175
3/4	(19.0)	11/8	407	41.5	300
7/8	(22.2)	15/16	650	66.3	480
1	(25.4)	11/2	970	99.0	715
11/4	(31.7)	17/8	1940	198.0	1430
11/2	(38.1)	21/4	3390	345.0	2500

Table 2. Metric Grade 8.8 Bolts

Bolt Size	Hexagon (A/F)		Torque Setting		
	M	(mm)	M	Nm	Kgfm
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

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



Tightening Torque Values for Metric Hardware

Condition I Un-Lubricated, zinc, and yellow plated fasteners

Condition II Lubricated, zinc, and yellow plated fasteners

Hardware	Torque (Nm)	
	Condition I	Condition II
M4 x 0.7	2.9	2.6
M5 x 0.8	5.8	5.2
M6 x 1	9.9	9
M8 x 1.25	24	22
M10 x 1.5	47	43
M12 x 1.75	83	74
M14 x 2	132	119
M16 x 2	205	184
M20 x 2.5	400	360
M24 x 3	690	621
M30 x 3.5	1372	1235
M36 x 4	2399	2159

Tightening Torque Values for Hydraulic Adaptor

Nominal Size of Nut	Tightening (Nm)
1/8" BSP	20
1/4" BSP	34
3/8" BSP	75
1/2" BSP	102
5/8" BSP	122
3/4" BSP	183
1" BSP	203
1-1/4" BSP	305
1-1/2" BSP	305

Tightening Torque Values for Hydraulic Hoses

Thread Size	Torque (Nm)	
	Hose connections with O-ring	Hose connections with bonded washers
1/8" BSP	14-16	20
1/4" BSP	24-27	34
3/8" BSP	33-40	75
1/2" BSP	44-50	102
5/8" BSP	58-65	122
3/4" BSP	84-92	183
1" BSP	115-126	203
1-1/4" BSP	189-200	305
1-1/2" BSP	244-260	305

Service Tools

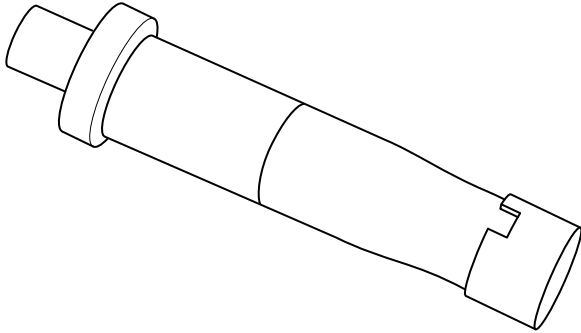


Fig 10. Needle Bush Pressing Tool (332/Y4023)

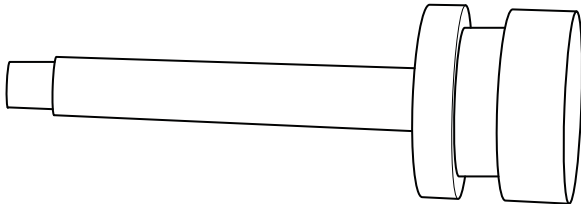


Fig 11. Box Spanner Nut

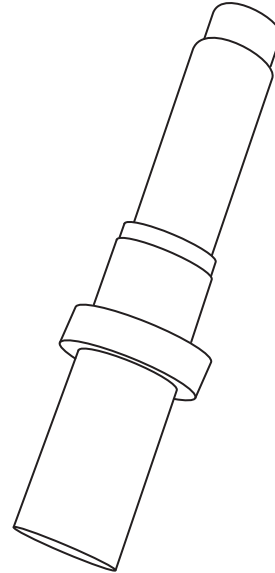


Fig 12. Needle Bush Pressing Tool (332/Y4026)

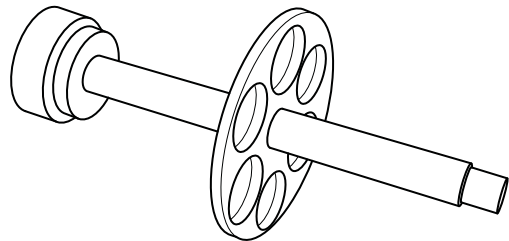


Fig 13. Box Spanner Nut (332/Y4024)

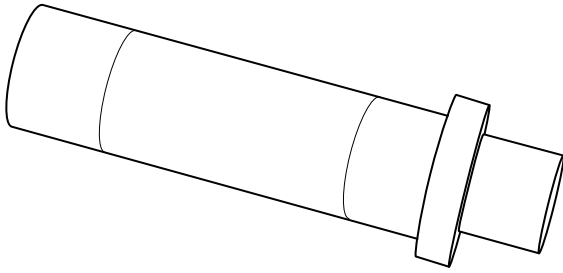


Fig 14. Oil Seal Pressing Tool (332/Y4025)

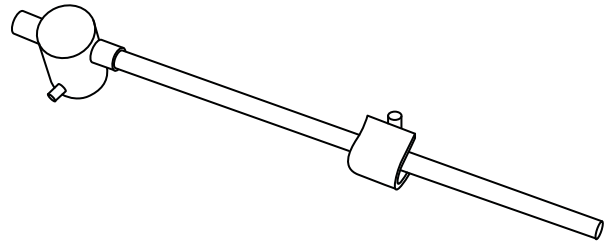


Fig 17. Pre-loading Bar (332/Y4031)

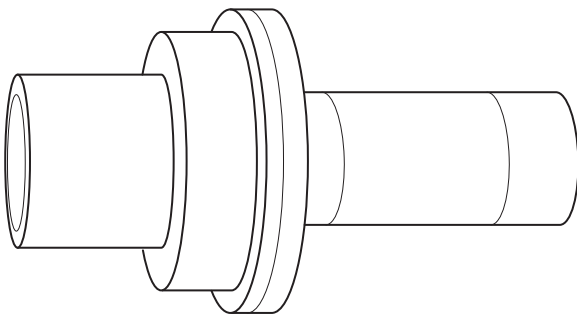


Fig 15. Oil Seal Pressing Tool (332/Y4027)

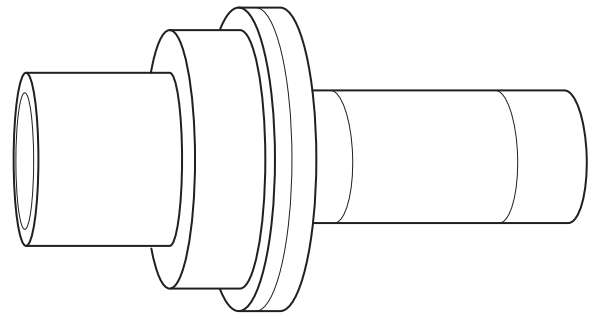


Fig 18. Cone Pressing Tool (332/Y4034)



Fig 16. Withdrawal Nut Fitting Tool (332/Y4028)

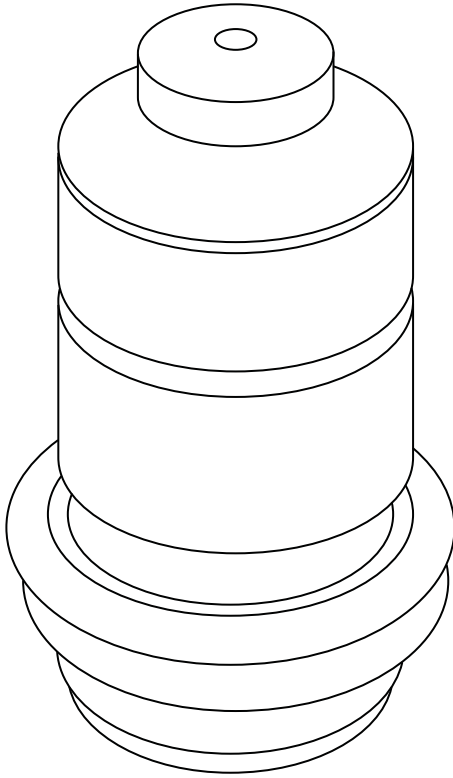


Fig 19. Oil Seal Pressing Tool (332/Y4029)

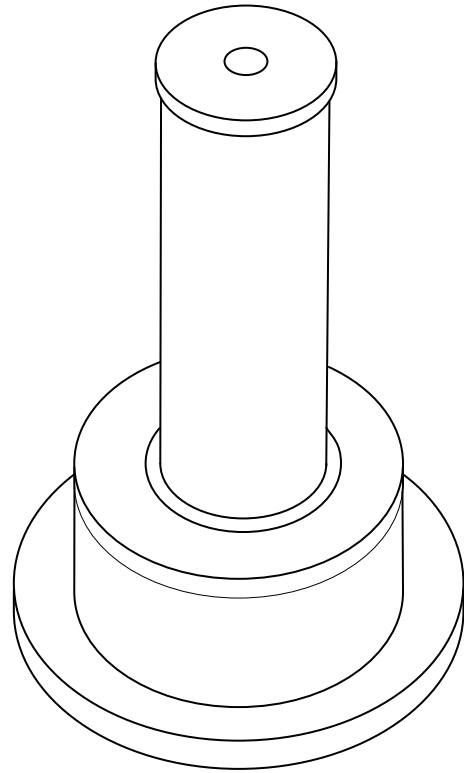


Fig 20. Oil Seal Pressing Tool (332/Y4033)

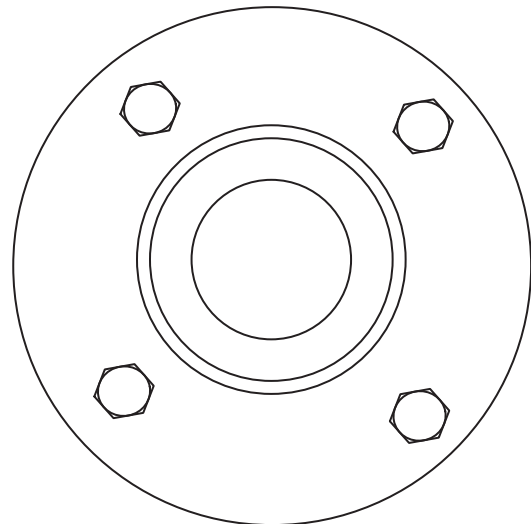


Fig 21. Bearing Puller (332/Y4036)

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