Service Manual



JCB 8250 Fastrac

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Serial Numbers

Identifying the Machine

Serial Numbers

Serial Number Plate

Each machine has a serial number plate located at **X**. The 17 digit Vehicle Identification Number (VIN), and the serial numbers of the engine and transmission are stamped on the plate.

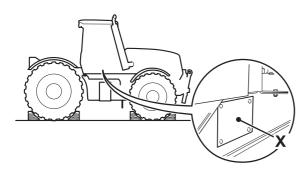
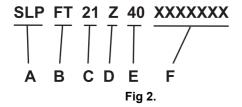


Fig 1.

Typical Vehicle Identification No. (VIN)



- A Manufacturing code
- B Machine range

FT = Fastrac

- C Engine type
- D Transmission type (gearbox & axle combination)
- E Vehicle max. speed

40 = 40 kph

50 = 50 kph

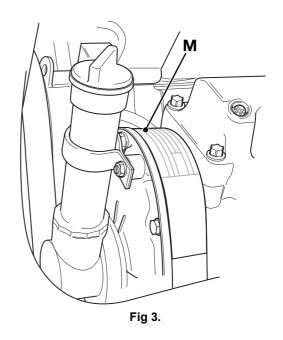
65 = 65 kph

F Serial number

Unit Identification

The serial number of each major unit is also stamped on the unit itself as shown below. If a major unit is replaced by a new one, the serial number on the 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.

Engine	M
Gearbox	N
Front axle	Р
Rear axle	R





Serial Numbers

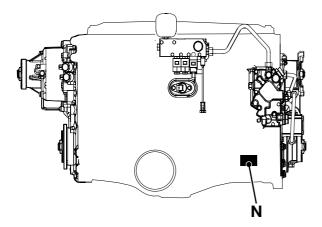
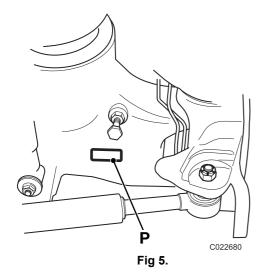
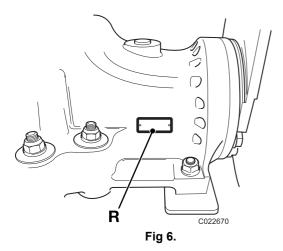


Fig 4.







Standard Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

Introduction

Some external fasteners on Fastrac machines are assembled using an improved type of corrosion resistant finish. This type of finish is called Dacromet and replaces the original Zinc and Yellow plating used on earlier machines.

The two types of fasteners can be readily identified by colour and part number suffix as follows:

Fastener Type	Colour	Part Number
Zinc and Yellow	Golden finish	Z (e.g. 1315/3712Z)
Dacromet	Mottled silver finish	D (e.g. 1315/3712D)

As the Dacromet fasteners have a lower torque setting than the Zinc and Yellow fasteners, the torque figures used must be relevant to the type of fasteners.

A Dacromet bolt should not be used in conjunction with a Zinc and Yellow plated nut, as this could change the torque characteristics of the torque settings further. For the same reason, a Dacromet nut should not be used in conjunction with a Zinc and Yellow plated bolt.

Dacromet bolts, due to their high corrosion resistance are used in areas where rust could occur. Dacromet bolts are only used for external applications. They are not used in applications such as gearbox and engine joint seams or internal applications.

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

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Section 1 - General Information Standard Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

Zinc Plated Fasteners (golden finish)

Use the values on these pages 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

Metric Grade 8.8 Bolts

-	Size		Torque Settings		
			Nm	kgf m	lbf ft
Diame (mm)	eter	Hexagon	(A/F) mm		
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
M18	(18)	27	350	36	258
M20	(20)	30	476	48	352
M24	(24)	36	822	84	607
M30	(30)	46	1633	166	1205
M36	(36)	55	2854	291	2105

Metric Grade 10.9 Bolts

	Size		Torque Settings		
			Nm	kgf m	lbf ft
Diame (mm)	eter	Hexagon	(A/F) mm		
M6	(6)	8	16	1.6	12
M8	(8)	13	39	4	29
M10	(10)	17	78	8	57
M12	(12)	19	137	14	101
M16	(16)	24	343	35	253
M20	(20)	30	657	67	485
M24	(24)	36	1157	118	853

Metric - All Internal Hexagon Headed Cap Screws

Diameter	Torque Settings				
mm	Nm	kgf m	lbf ft		
M3	2	0.2	1.5		
M4	6	0.6	4.5		
M5	11	1.1	8		
M6	19	1.9	14		
M8	46	4.7	34		
M10	91	9.3	67		
M12	159	16.2	117		
M16	395	40	292		
M18	550	56	406		
M20	770	79	568		
M24	1332	136	983		

Verbus Ripp Bolts

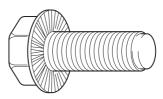


Fig 7.

Torque settings for these bolts are determined by the application. Refer to the relevant procedure for the required settings.

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Section 1 - General Information Standard Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

Dacromet Fasteners (mottled silver finish)

Use the values on these pages only where no torque setting is specified in the text.

Note: Dacromet fasteners are lubricated as part of the plating process. Do not lubricate

Metric Grade 8.8 Bolts

Bolt size	Torqu	Torque Settings		
Dia.	Nm	kgf m	lbf ft	
M6 x 1.0	9	0.9	7	
M8 x 1.25	22.5	2.3	17	
M10 x 1.5	47.5	4.8	35	
M12 x 1.75	80	8.2	59	
M14 x 2	133	13.6	98	
M16 x 2	200	20.4	148	
M18 x 2.5	278	28.4	205	
M20 x 2.5	392	40	289	
M24 x 3	675	69	498	
M30 x 3.5	1348	138	994	

Metric Grade 10.9 Bolts

Bolt size	Torqu	Torque Settings		
Dia.	Nm	kgf m	lbf ft	
M6 x 1.0	13.5	1.4	10	
M8 x 1.25	35	3.6	26	
M10 x 1.5	62.5	6.4	46	
M12 x 1.75	115	11.7	85	
M14 x 2	175	17.9	129	
M16 x 2	300	30.6	221	
M18 x 2.5	395	40	291	
M20 x 2.5	559	57	412	
M24 x 3	962	98	710	
M30 x 3.5	1920	196	1416	

Metric Grade 12.9 Bolts

Bolt size	Torque Settings		
Dia.	Nm	kgf m	lbf ft
M6 x 1.0	15	1.5	11
M8 x 1.25	40	4.1	29
M10 x 1.5	80	8.2	59
M12 x 1.75	133	13.6	98
M14 x 2	225	23	166
M16 x 2	350	35.7	258
M18 x 2.5	463	47	342
M20 x 2.5	654	67	482
M24 x 3	1125	115	830
M30 x 3.5	2247	229	1657



Section 1 - General Information Standard Torque Settings

Hydraulic Connections

Hydraulic Connections

T11-003

'O' Ring Face Seal System

Adaptors Screwed into Valve Blocks

Adaptor screwed into valve blocks, seal onto an 'O' ring which is compressed into a 45° seat machined into the face of the tapped port.

Table 1. Torque Settings - BSP Adaptors

BSP Adaptor Size	Hexagon (A/F)			
in.	mm	Nm	kgf m	lbf ft
1/4	19.0	18.0	1.8	13.0
3/8	22.0	31.0	3.2	23.0
1/2	27.0	49.0	5.0	36.0
5/8	30.0	60.0	6.1	44.0
3/4	32.0	81.0	8.2	60.0
1	38.0	129.0	13.1	95.0
1 1/4	50.0	206.0	21.0	152.0

Table 2. Torque Settings - SAE Connections

Table 2. Torque county of the control of the contro					
SAE Tube	SAE Port	Hexagon (A/F)			
Size	Thread Size	mm	Nm	kgf m	lbf ft
4	7/16 - 20	15.9	20.0 - 28.0	2.0 - 2.8	16.5 - 18.5
6	9/16 - 18	19.1	46.0 - 54.0	4.7 - 5.5	34.0 - 40.0
8	3/4 - 16	22.2	95.0 - 105.0	9.7 - 10.7	69.0 - 77.0
10	7/8 - 14	27.0	130.0 - 140.0	13.2 - 14.3	96.0 - 104.0
12	1 1/16 - 12	31.8	190.0 - 210.0	19.4 - 21.4	141.0 - 155.0
16	1 5/16 - 12	38.1	290.0 - 310.0	29.6 - 31.6	216.0 - 230.0
20	1 5/8	47.6	280.0 - 380.0	28.5 - 38.7	210.0 - 280.0

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