

Service Manual

Fastrac

3170, 3170 Plus 3190, 3190 Plus 3200, 3200 Plus 3220, 3220 Plus 3230, 3230 Plus

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Introduction

This publication is designed for the benefit of JCB Distributor Service Engineers who are receiving, or have received, training by JCB 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

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 the whole machine.

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

- A = Optional Equipment
- B = Body & Framework ...etc

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.

All sections are listed on the front cover; tabbed divider cards align directly with individual sections on the front cover for rapid reference.

Page cross references are generally made by presenting the subject title printed in bold, followed by the title of the section containing the subject. For example:

"24 If the axle is still on the machine, fit the brake calipers (see Brake Caliper Removal and Replacement, Section G)."

Note: If only the subject title in bold is given, i.e. no section title, the cross reference is to another part of the same section.

Use the contents list at the beginning of each section to find the exact page number.

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.

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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.

* Typical Vehicle Identification No. (VIN)



Original VIN Configuration



Later VIN Configuration

A = Manufacturing Code

B = Machine Range

FT = Fastrac

* C = Engine Type

17 = 3190 or 3190 Plus

18 = 3220 or 3220 Plus

19 = 3170 or 3170 Plus

23 = 3200 or 3200 Plus

24 = 3230 or 3230 Plus

*D = Transmission Type (Gearbox and axle combination)

3170, 3170 Plus All other machines

A = 75 km/h 8 = Standard (40, 50 or 65 km/h) B = 65 km/h 9 = High Speed (75 km/h)

D = 50 km/h

E = 40 km/h

E = Vehicle Max. Speed

40 = 40 km/h

50 = 50 km/h

65 = 65 km/h

75 = 75 km/h

F = Serial Number

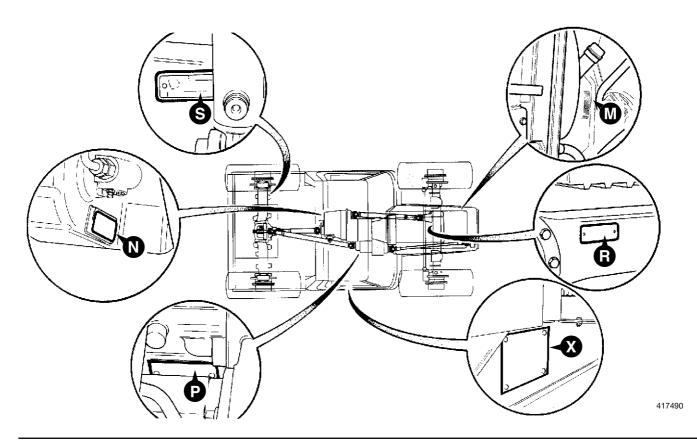
* **G** = Authenticity Code

* **H** = year Code (e.g. 6 = 2006)

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	М
Gearbox Assembly (assembly of all three gearboxes)	Ν
Speed Gearbox	Ρ
Front Axle	R
Rear Axle	S



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2 - 1 Torque Settings 2 - 1

Introduction - Zinc Plated Fasteners and Dacromet Fasteners

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 TypeColourPart NumberZinc and YellowGolden finish'Z' (e.g. 1315/3712Z)DacrometMottled silver finish'D' (e.g. 1315/3712D)

Note: 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.

Note: 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.

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

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

2 - 2 Torque Settings

Zinc Plated Fasteners (golden finish)

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.

Metric Grade 8.8 Bolts

Diameter Bolt size Torque Settings Torque Nm lbf ft Dia. (mm) Hexagon Nm kgf m lbf ft mm kgf m (A/F) mm 7 5 M3 2 0.2 1.5 M5 (5)8 0.7 M4 6 0.6 M6 (6)9 4.5 10 12 1.2 M8 21 M5 11 1.1 8 (8)13 28 3.0 M6 19 1.9 14 M10 56 5.7 42 (10)17 72 M8 46 4.7 34 M12 (12)19 98 10 91 67 M16 24 244 25 180 M10 9.3 (16)M12 159 16.2 117 M18 (18)27 350 36 258 M16 395 40 292 M20 48 (20)30 476 352 M18 550 56 406 M24 (24)36 822 84 607 M20 770 79 568 M30 (30)46 1633 166 1205

2105

Metric Grade 10.9 Bolts

(36)

55

M36

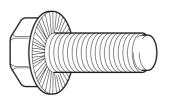
Dia.	Bolt size (mm)	Hexagon (A/F) mm	To: Nm	rque Set kgf m	tings lbf ft
M6	(6)	8	16	1.6	12
M8	(8)	13	39	4	29
M10	(10)	17	78	8	57
M12	(12)	19	137	14	101
M16	(16)	24	343	35	253
M20	(20)	30	657	67	485
M24	(24)	36	1157	118	853

2854

291

Verbus Ripp Bolts

M24



1332

Metric - All Internal Hexagon Headed Cap Screws

A343780

136

983

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

Hydraulic Hose to Adapter Connections

Torque Settings BSP Size Nm kgf m lbf ft (inches) 1/8 14 1.4 10 1/4 24 2.5 18 3/8 33 3.3 24 1/2 44 4.8 35 5/8 58 6.0 43 3/4 62 84 8.6 115 11.8 85 1 11/2244 24.9 180

Hydraulic Adapter into Component Connections with bonded washers

BSP Size (inches)	To Nm	rque Settin kgf m	gs lbf ft
1/8	20	2.1	15
1/4	34	3.4	25
3/8	75	7.6	55
1/2	102	10.3	75
5/8	122	12.4	90
3/4	183	18.7	135
1	203	20.7	150
1 ¹ /2	305	31	225

2 - 3 Torque Settings 2 - 3

Dacromet Fasteners (mottled silver finish)

Use 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	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 Torque		rque Set	ue 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

2 - 4 **Torque Settings**

Dacromet Fasteners (mottled silver finish) - List of Torque Settings

This list shows Dacromet fasteners that may not be shown in the other sections of the service manual.

Location:

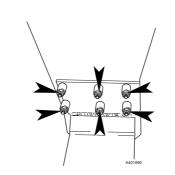
Front Wrapper (top/bottom)

Nm: 392 **kgf m:** 40 **lbf ft:** 289

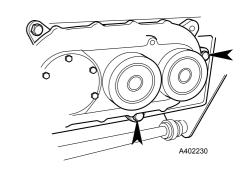


Location: Nm: 115 kgf m: 12

Front Lower Crossmember **lbf ft:** 85



Location: Front P.T.O. Box Nm: 200 kgf m: 20 **lbf ft:** 148



* Location:

Front Axle Upper Arm

Mounting Bracket

8.8 grade bolts:

Nm: 200 kgf m: 20 **lbf ft:** 148

10.9 grade bolts (all bolts with JCB Threadlocker and Sealer and with spacer fitted at bolt B):

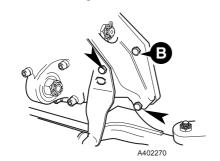
lbf ft: 220 Nm: 300 kgf m: 30

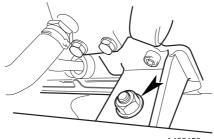


Front Engine Mounting kgf m: 20 **lbf ft:** 148 Location: Nm: 30

Header Tank Clamp Plate

lbf ft: 22 **kgf m:** 3





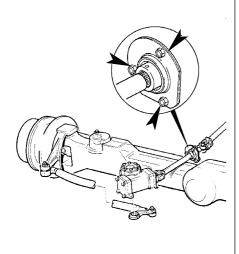
A402150



Location: Nm: 28

Steershaft Bearing **kgf m:** 2.9 **lbf ft:** 21 Location: Nm: 38

Steershaft upper UJ **kgf m:** 3.9 **lbf ft:** 28





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Dacromet Fasteners (mottled silver finish) - List of Torque Settings (continued)

Location: Gea Nm: 200 kgf

Gearbox Crossmember kgfm: 20 lbf ft: 148

Location: Nm: 47.5

Left Hand Pannier Step kgf m: 4.8 lbf ft: 35

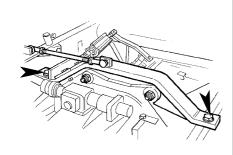
p **Location**:

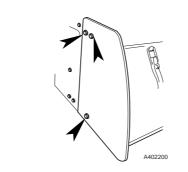
Nm: 392

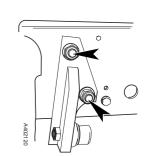
Rear Anti-Roll bar mounting

bracket

kgf m: 40 lbf ft: 289







Location: Nm: 392

Tower Casting to Axle **kgf m**: 40 **lbf ft**: 289

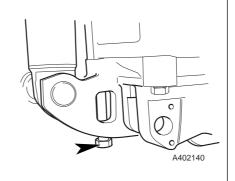
Location: Nm: 654

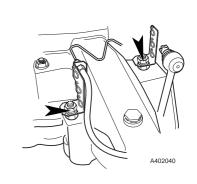
Lower Link Capscrew kgf m: 67 lbf ft: 482

Location: Nm: 392

Lower Link Bolt (Hex Head) kgf m: 40 lbf ft: 289







Location: Nm: 392

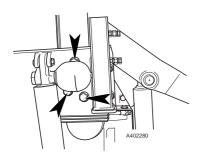
Rear Crossmember kgf m: 40 lbf ft: 289

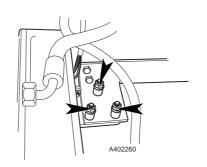
Location: Nm: 200

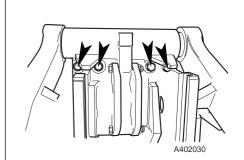
Rear Lower Crossmember **kgf m**: 20 **lbf ft**: 148

Location: Nm: 392

Rockinger Hitch Bolt **kgfm:** 40 **lbf ft:** 289







Sealing and Retaining Compounds

* Gasketing - Loctite 509			
	To seal the joint faces between the PTO/splitter gearbox, the speed gearbox and the range gearbox.	4102/3202 4102/3240	50ml 315 ml
JCB Multigasket	A medium strength sealant suitable for all sizes of gasket flanges, and for hydraulic fittings of 25-65 mm diameter.	4102/1212	
JCB High Strength Threadlocker	A high strength locking fluid for use with threaded components. Gasketing for all sizes of flange where the strength of the joint is important.	4102/0551	
JCB Retainer (High Strength)	For all retaining parts which are unlikely to be dismantled.	4101/0651	
JCB Threadlocker & Sealer	A medium strength locking fluid for sealing and retaining nuts, bolts, and screws up to 50 mm diameter, and for hydraulic fittings up to 25 mm diameter.	4101/0251	
JCB Threadlocker	For threads of suction strainer.	4101/0451	50ml
JCB Threadlocker & Sealer (High Strength)	A medium to high strength locking fluid.	4101/0552	
JCB Threadseal	Medium strength thread sealant (for patch bolts that are re-used).	4102/1951	50 ml
Clayton System Seal SC1251	A thread sealant used mainly on air brake system hose adapters.	4102/2210	2ml
JCB Activator	A cleaning primer which speeds the curing rate of anaerobic products.	4104/0251 4104/0253	Aerosol Bottle
JCB Cleaner/Degreaser	For degreasing components prior to use of anaerobic adhesives and sealants.	4104/1557	Aerosol
Direct Glazing Kit	For one pane of glass, comprises items marked † below plus applicator nozzle etc.	993/55700	
† Ultra Fast Adhesive	For direct glazing	4103/2109	310 ml
† Active Wipe 205	For direct glazing	4104/1203 4104/1206	250 g 30 ml
† Black Primer 206J	For direct glazing	4201/4906	30 ml
† Black Primer 206J JCB Clear Silicone Sealant	For direct glazing To seal butt jointed glass. Also to seal hub planet gear carrier when no 'O' ring is fitted	4201/4906 4102/0901	30 ml

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Service Tools Numerical List 892/00278 Gauge 0 - 40 bar					7 - 2 7 - 2
	-	Dogo No	892/00279 892/00281	Gauge 0 - 400 bar Avo Meter	7 - 2 6 - 1
1270/00017	Nut M24	Page No . 9 - 1	892/00281	Shunt	6 - 1
1370/0901Z 1406/0021	Bonded Washer	7 - 1 7 - 1	892/00283	Tool Kit Case	6 - 1
1604/0006	Adapter	7 - 1 7 - 1	892/00284	Digital Tachometer	6 - 1
1604/0008	Adapter	, . 7 - 1	892/00285	Oil Temperature Probe	6 - 1
1606/0012	Adapter	7 - 1	892/00286	Surface Temperature Probe	6 - 1
1606/0015	Adapter	7 - 1	892/00293	Connector Pipe	7 - 1
1612/0006	Adapter	7 - 1	892/00294	Connector Pipe	7 - 1
4101/0251	JCB Threadlocker and Sealer	3 - 1	892/00298	Fluke Multimeter	6 - 1
4101/0451	JCB Threadlocker	3 - 1	892/00311	Brake Test Kit	8 - 4
4101/0552	JCB Threadlocker and Sealer		892/00312	Dummy End Plate	8 - 2
4404/0/54	(High Strength)	3 - 1	892/00314	Accumulator Adapter	9 - 1 7 - 2
4101/0651	JCB Retainer (High Strength)	3 - 1	892/00318 892/00333	Hose and Adapter Kit Heavy Duty Socket, 19 mm A/F	7 - 2 8 - 2
4102/0551 4102/0901	JCB High Strength Threadlocker JCB Clear Silicone Sealant	3 - 1 3 - 1	892/00334	Gland Seal Fitting Tool	7 - 2
4102/1212	JCB Multigasket	3 - 1 3 - 1	892/00706	Test Probe	7 - 2
4102/1951	JCB Threadseal	3 - 1	892/00801	Clutch spanner	5 - 3
4102/2210	Clayton System Seal SC1251	3 - 1	892/00802	Rotor puller set	5 - 3
4102/2309	Black Polyurethane Sealant	3 - 1	892/00803	Rotor installer set	5 - 3
4103/2109	Ultra Fast Adhesive	3 - 1	892/00807	Front plate puller	5 - 3
4104/0251	JCB Activator (Aerosol)	3 - 1	892/00808	Shaft protector	5 - 3
4104/0253	JCB Activator (Bottle)	3 - 1	892/00812	Drive Coupling Spanner	8 - 1
4104/1557	JCB Cleaner/Degreaser	3 - 1	892/00817	Heavy Duty Socket, 17 mm A/F	8 - 2
4104/1203	Active Wipe 205 (250 g)	3 - 1	892/00818	Heavy Duty Socket, 22mm A/F	8 - 2
4104/1206	Active Wipe 205 (30 ml)	3 - 1	892/00819	Heavy Duty Socket, 15 mm A/F	8 - 2
4104/1310	Hand Cleaner	5 - 1	892/00842 892/00843	Glass Lifter	5 - 1 5 - 1
4201/4906	Black Primer	3 - 1	892/00844	Folding Stand Long Knife	5 - 2
721/00664 721/10885	Connecting Lead (Wingst) Harness - ABS Diagnostic (J1939)	6 - 2) 6 - 1	892/00845	Cartridge Gun	5 - 1
816/15118	Test Adapter	7 - 1	892/00846	Glass Extractor Handles	5 - 2
816/20008	Adapter	7 - 1	892/00847	Nylon Spatula	5 - 3
816/20013	Adapter	7 - 1	892/00848	Wire Starter	5 - 2
816/55038	Adapter/Test Point	7 - 1	892/00849	Braided Cutting Wire	5 - 2
816/55040	Adapter/Test Point	7 - 1	892/00864	PD 90 Axle Locknut Spanner	8 - 3
892/00041	Deglazing Tool	9 - 2	892/00871	Frame (Puller Adapter Assembly)	9 - 1
892/00078	Connector	7 - 1	892/00874	Brace (Puller Adapter Assembly)	9 - 1
892/00137	Micro Bore Hose	7 - 2	892/00875	Bar M24 (Puller Adapter Assembly)	9 - 1
892/00174	Measuring Cup	8 - 2	892/00876	Block (Puller Adapter Assembly)	9 - 1
892/00179	Bearing Press	8 - 1	892/00892 892/00916	Speed Gearbox Locking Tool	8 - 3 8 - 3
892/00223 892/00224	Hand Pump Impulse Extractor	7 - 2 8 - 2	892/00918	Spring Compressor Setting Tool Kit	8 - 3
892/00225	Adapter for Impulse Extractor	8 - 2 8 - 1	892/00945	Sleeve for M30 Pinion	8 - 3
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892/00255	Adapter/Test Point	, . 7 - 1	892/01045	Peg Socket - Wet Clutch	8 - 5
892/00256	Adapter/Test Point	7 - 1	892/01046	Mandrel - Wet Clutch	8 - 4
892/00257	Adapter/Test Point	7 - 1	892/01047	Jig - Wet Clutch	8 - 4
892/00258	Adapter/Test Point	7 - 1	892/01048	Clutch Pack Retainer - Wet Clutch	
892/00259	Adapter/Test Point	7 - 1		(2 required)	8 - 4
892/00260	Adapter/Test Point	7 - 1	892/01049	Guide Rod - Wet Clutch	
892/00261	Adapter/Test Point	7 - 1	000/01050	(2 required)	8 - 4
892/00262		1 & 7 - 2	892/01050	Mandrel - Wet Clutch	8 - 4
892/00263	Adapter/Test Point	7 - 1	892/01051	Intermediate Gear Retaining Tool - Wet Clutch Transmission	8 - 4
892/00264 892/00265	Adapter/Test Point Adapter/Test Point	7 - 1 7 - 1	892/01052	Locking Plate - Wet Clutch	0 - 4
892/00268	Flow Monitoring Unit	7 - 1 7 - 1	072/01032	(2 required)	8 - 4
892/00269	Sensor Head	7 - 1 7 - 1	892/01053	Adapter for impulse extractor	· '
892/00270	Load Valve	7 - 1		(PTO intermediate shaft,	
892/00271	Adapter	7 - 1		wet clutch transmission)	8 - 2
892/00272	Adapter	7 - 1	892/01066	Combination Lead	6 - 2
892/00273	Sensor Head	7 - 1	* 892/01092	Wheel Hub Service Kit	8 - 5
892/00274	Adapter	7 - 2	926/15500	Rubber Spacer Blocks	5 - 3
892/00275	Adapter	7 - 1	992/09000	Peg Spanner	5 - 0
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Service Tools Numerical List (continued)

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993/55700	Direct Glazing Kit	3 - 1
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997/11000	Drive Head Setting Bracket	8 - 3
997/11100	Adapter for M24 Pinion	8 - 3

The following parts are replacement items for kits and would normally be included in the relevant kit numbers.

Replacement items for kit no. 892/00253

892/00201	Gauge 0 - 20 bar	7 - 1
892/00202	Gauge 0 - 40 bar	7 - 1
892/00203	Gauge 0 - 400 bar	7 - 1
892/00254	Hose	7 - 1

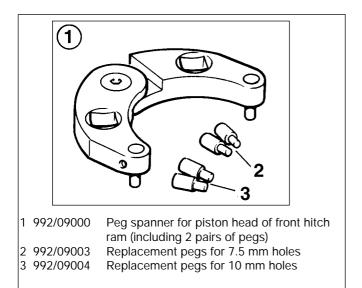
* Replacement parts for kit no. 892/01092

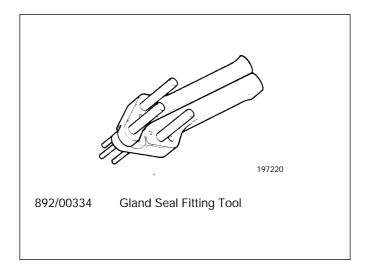
replacement parts for the new cyallers.		
1315/3414Z	Bolt M10x60	8 - 5
1315/3731Z	Bolt M16x220	8 - 5
1315/3835Z	Bolt M20x300	8 - 5
1370/0301Z	Nut M10	8 - 5
1370/0401Z	Nut M12	8 - 5
1370/0601Z	Nut M16	8 - 5
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1420/0009Z	Washer M12	8 - 5
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445/12303	Washer	8 - 5
892/00891	Dolly	8 - 5
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998/10607	Inner Bearing Plate	8 - 5
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998/10610	Puller Rod	8 - 5
998/10614	Reaction Tube	8 - 5
998/10615	Wheel Bearing Carrier Puller	8 - 5
998/10616	Puller Handle Nut	8 - 5
998/10623	Puller Beam	8 - 5
998/10624	Modified Wheel Stud	8 - 5

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Service Tools

Section A - Optional Equipment





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Service Tools

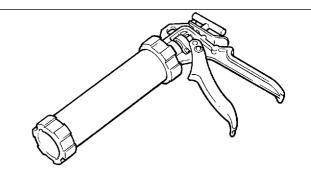
Section B - Body and Framework



S186240

Hand Cleaner - special blend for the removal of polyurethane adhesives.

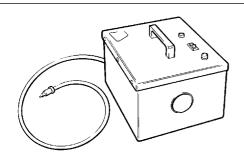
JCB part number - 4104/1310 (454g; 1lb tub)



S186270

Cartridge Gun - hand operated - essential for the application of sealants, polyurethane materials etc.

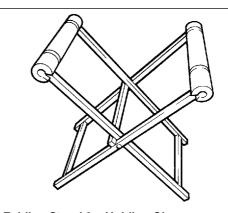
JCB part number - 892/00845



S186250

12V Mobile Oven - 1 cartridge capacity - required to pre-heat adhesive prior to use. It is fitted with a male plug (703/23201) which fits into a female socket (715/04300).

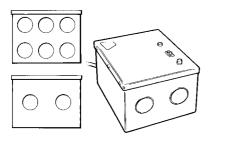
JCB part number - 992/12300



S186280

Folding Stand for Holding Glass - essential for preparing new glass prior to installation.

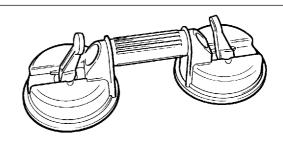
JCB part number - 892/00843



240V Static Oven - available with 2 or 6 cartridge capacity - required to pre-heat adhesive prior to use. No plug supplied. Note: 110V models available upon

request - contact JCB Technical Service

JCB part number: 992/12400 - 2 cartridge x 240V 992/12600 - 6 cartridge x 240V



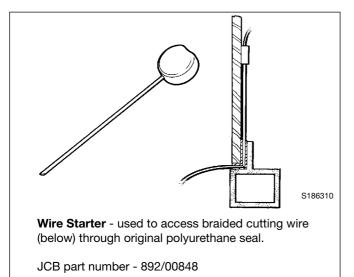
S186300

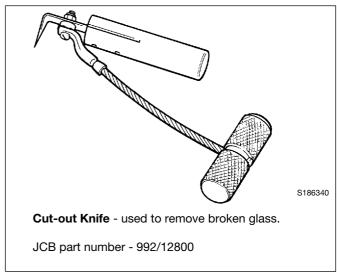
Glass Lifter - minimum 2 off - essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

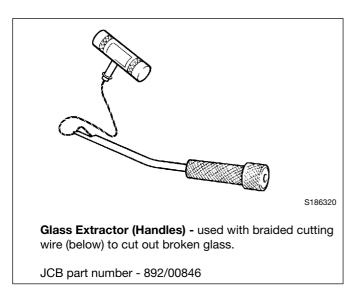
JCB part number - 892/00842

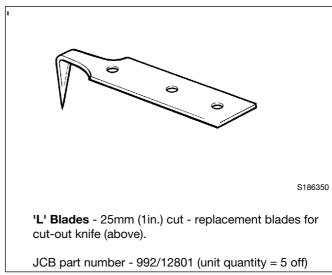
Service Tools (continued)

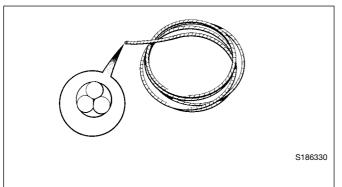
Section B - Body and Framework (continued)





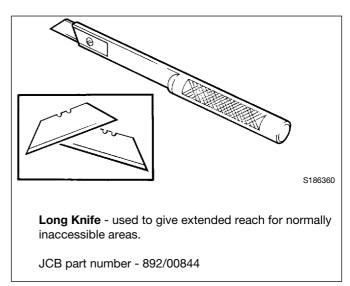






Braided Cutting Wire - consumable heavy duty cut-out wire used with the glass extraction tool (above).

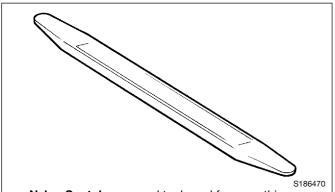
JCB part number - 892/00849 (approx 25m length)



5-3 5-3

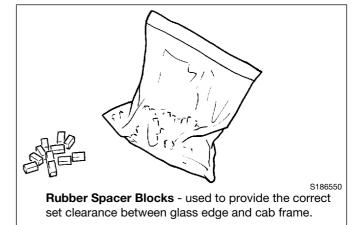
Service Tools (continued)

Section B - Body and Framework (continued)



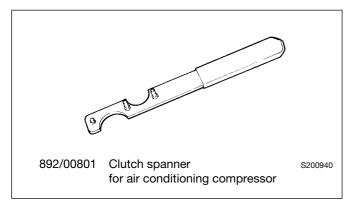
Nylon Spatula - general tool used for smoothing sealants - also used to re-install glass in rubber glazing because metal tools will chip the glass edge.

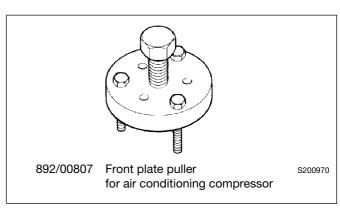
JCB part number - 892/00847

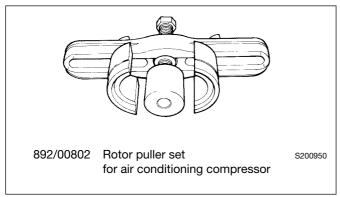


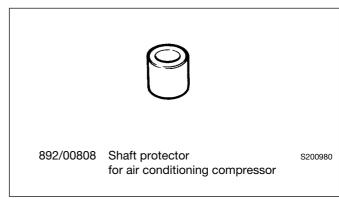
JCB part number - 926/15500

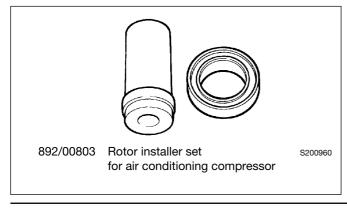
(unit quantity = 500 off)







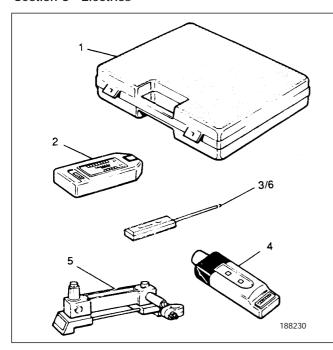




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Service Tools

Section C - Electrics



Electrical Test Equipment

1 892/00283 Tool Kit Case

2 892/00281 AVO Meter

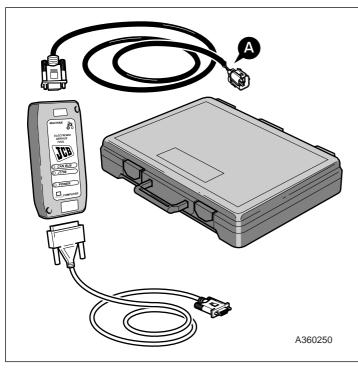
3 892/00286 Surface Temperature Probe

4 892/00284 Microtach Digital Tachometer

5 892/00282 100 Amp Shunt - open type

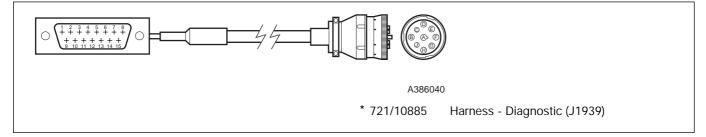
6 892/00285 Hydraulic Oil Temperature Probe

7 892/00298 Fluke 85 Multimeter



892/01033 Data Link Adapter Kit - ABS

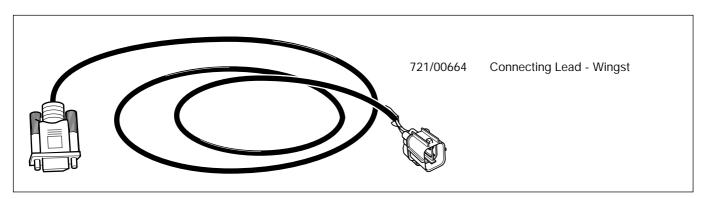
Note: Item **A** of the Data Link Adapter Kit is unsuitable for use with the Fastrac and must be replaced by the 'Harness - Diagnostic (J1939)' shown below.

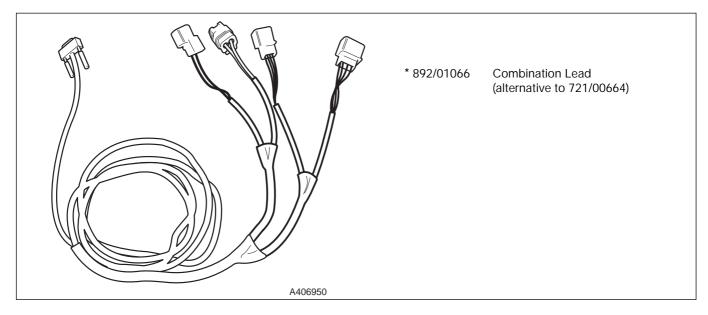


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Service Tools (continued)

Section C - Electrics (continued)



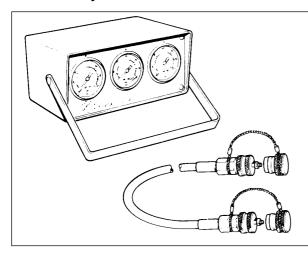


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Service Tools

Section E - Hydraulics



Hydraulic Circuit Pressure Test Kit

892/00253 Pressure Test Kit

892/00201 Replacement Gauge 0-20 bar (0-300 lbf/in²)
892/00202 Replacement Gauge 0-40 bar (0-600 lbf/in²)
892/00203 Replacement Gauge 0-400 bar (0-6000 lbf/in²)

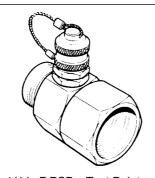
892/00254 Replacement Hose

:993/69800 Seal Kit for 892/00254 (can also be used with

probe 892/00706)

S188120

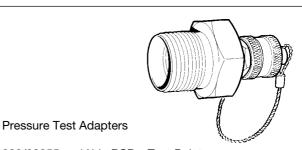
S200140



Pressure Test 'T' Adapters

892/00262 1/4 in M BSP x 1/4 in F BSP x Test Point 816/55038 3/8 in M BSP x 3/8 in F BSP x Test Point 816/55040 1/2 in M BSP x 1/2 in F BSP x Test Point 892/00263 5/8 in M BSP x 5/8 in F BSP x Test Point 892/00264 3/4 in M BSP x 3/4 in F BSP x Test Point 892/00265 1 in M BSP x 1 in F BSP x Test Point

S188130



1.1/4 in BSP x Test Point

892/00255 1/4 in BSP x Test Point
892/00256 3/8 in BSP x Test Point
892/00257 1/2 in BSP x Test Point
892/00258 5/8 in BSP x Test Point
816/15118 3/4 in BSP x Test Point
892/00259 1 in BSP x Test Point

892/00261 5/8 in UNF x Test Point

892/00260

Flow Test Equipment

892/00268 Flow Monitoring Unit

892/00269 Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)

892/00293 Connector Pipe 892/00270 Load Valve

1406/0021 Bonded Washer

1604/0006 Adapter 3/4 in M x 3/4 in M BSP

1612/0006 Adapter 3/4 in F x 3/4 in M BSP

892/00271 Adapter 3/4 in F x 5/8 in M BSP 892/00272 Adapter 5/8 in F x 3/4 in M BSP

816/20008 Adapter 3/4 in F x 1/2 in M BSP

892/00275 Adapter 1/2 in F x 3/4 in M BSP

892/00276 Adapter 3/4 in F x 3/8 in M BSP

892/00277 Adapter 3/8 in F x 3/4 in M BSP

892/00273 Sensor Head 0 - 380 I/min

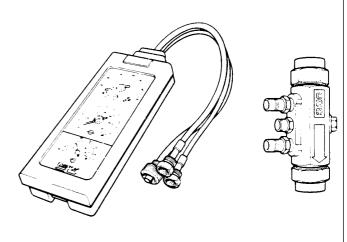
892/00294 Connector Pipe

1606/0015 Adapter 1.1/4 in M BSP x 1 in M BSP

892/00078 Connector 1 in F x 1 in F BSP

1604/0008 Adapter 1 in M x 1 in M BSP 1606/0012 Adapter 1 in M x 3/4 in M BSP

816/20013 Adapter 3/4 in F x 1 in M BSP

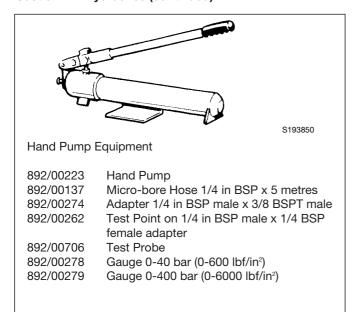


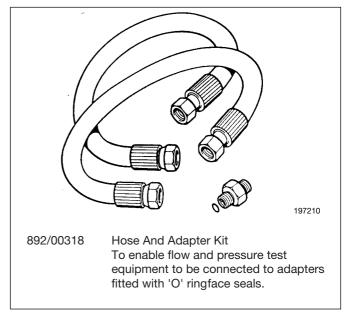
S188150

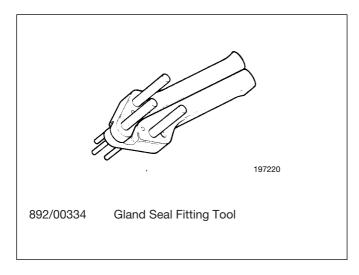
7 - 2 7 - 2

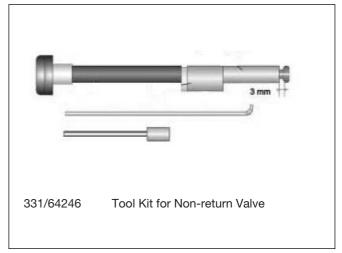
Service Tools (continued)

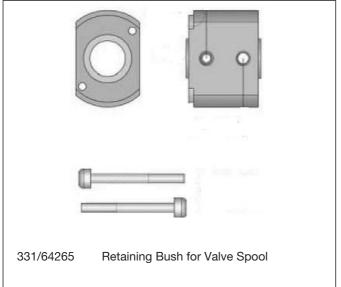
Section E - Hydraulics (continued)











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