



Service Manual

**3CX, 4CX,
214e, 214, 215, 217
& VARIANTS**

Backhoe Loader

**From M/c No. 930000 Onwards
From M/c No. 903000 Onwards (USA)**

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General Information	1
Care & Safety	2
Routine Maintenance	3
Attachments	A
Body & Framework	B
Electrics	C
Controls	D
Hydraulics	E
Transmission	F
Brakes	G
Steering	H
Engine	K
Servo Controls (Precision Controls)	L

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 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 ...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.

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.

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








Machine Nomenclature

In this Service Manual, reference is made to machine models, e.g. 3CX, 4CX, these are European machine model names. North American machine models have different names, the table below shows the European and the equivalent North American nomenclature.

European		North American
3CX	=	214
4CX	=	214S, 215S, 217S

Colour Coding

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

-  **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** — **Cavitation**
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).

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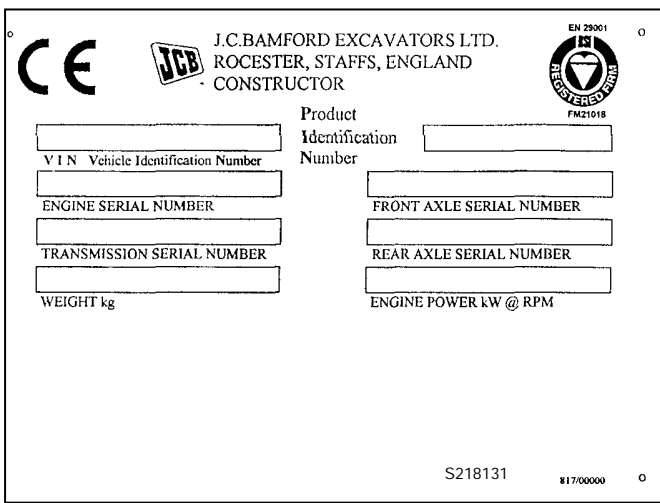
Contents	Page No.
Machine Identification Plate	1 - 1
Typical Vehicle Identification Number (VIN)	1 - 1
Typical Engine Identification Number	1 - 1
Serial Plates	1 - 2
Torque Settings	2 - 1
Service Tools Numerical List	3 - 1
Service Tools	
- Body & Framework	4 - 1
- Electrics	4 - 4
- Hydraulics	4 - 6
- Transmission	4 - 10
- Engine	4 - 19*
Sealing and Retaining Compounds	5 - 1

Machine Identification Plate

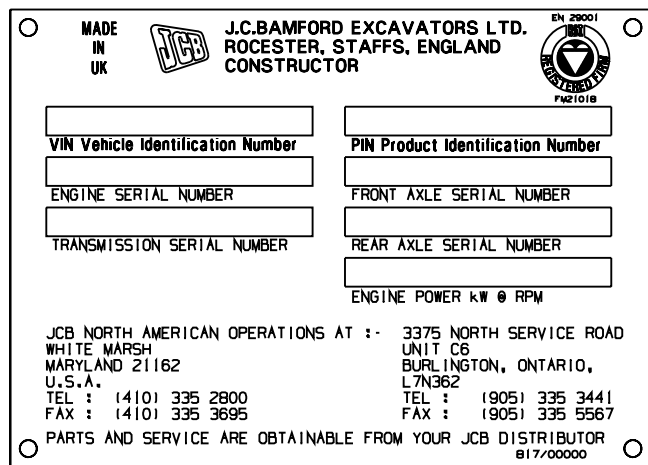
Your machine has an identification plate mounted on the loader tower. The serial numbers of the machine and its major units are stamped on the plate.

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 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.



U.K. and R.O.W.



North America

A246740

Typical Vehicle Identification Number (VIN)

SLP 3CX T S V E 930000
A B C D E F G

- A** World Manufacturer Identification
- B** Machine Model
- C** Steer Type (T= 2WS, F=4WS)
- D** Build Type (S=Sideshift, C=Centremount, L=Loader)
- E** Year of Manufacture:
 2 = 2002
 3 = 2003
 4 = 2004
 5 = 2005
 6 = 2006
 7 = 2007
 8 = 2008
- F** Manufacturer Location (E = England)
- G** Product Identification Number (PIN)

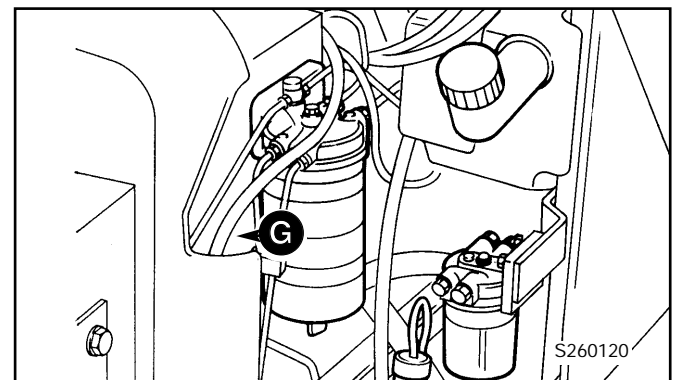
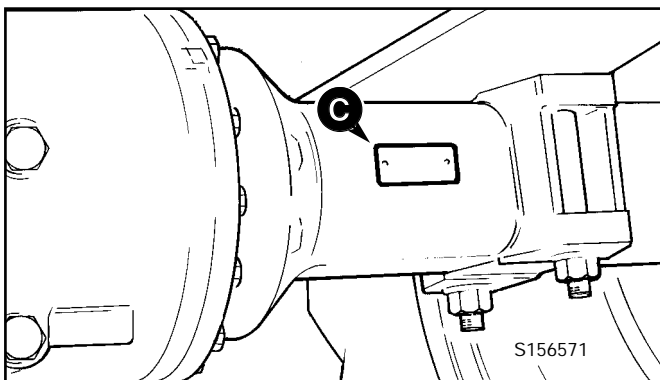
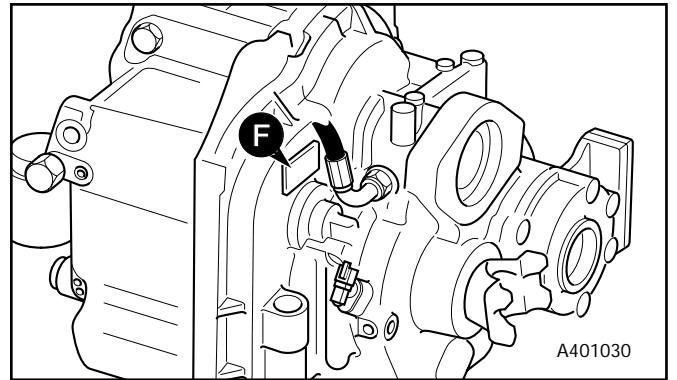
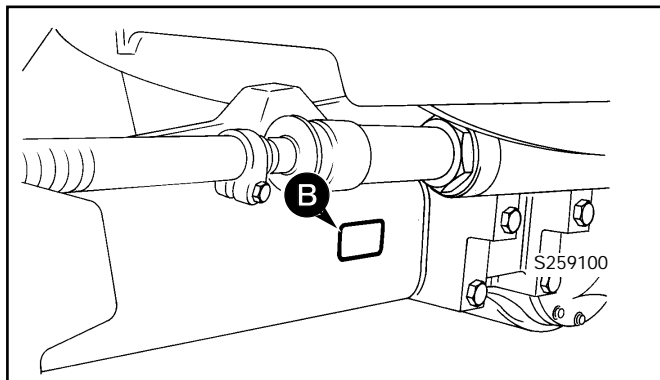
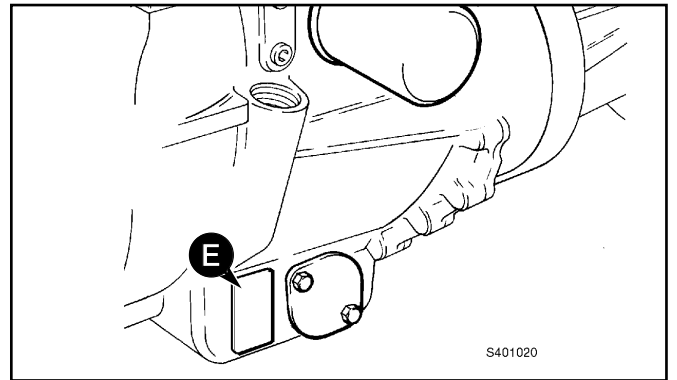
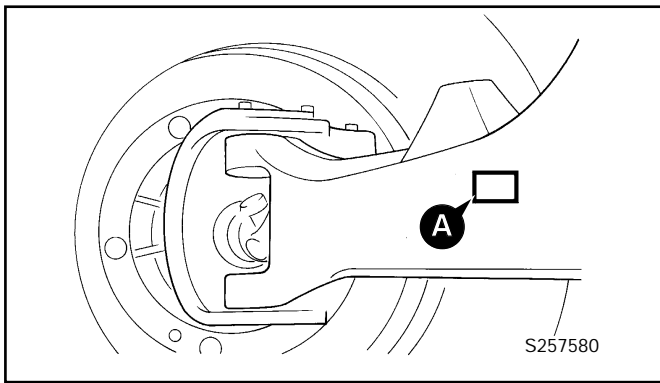
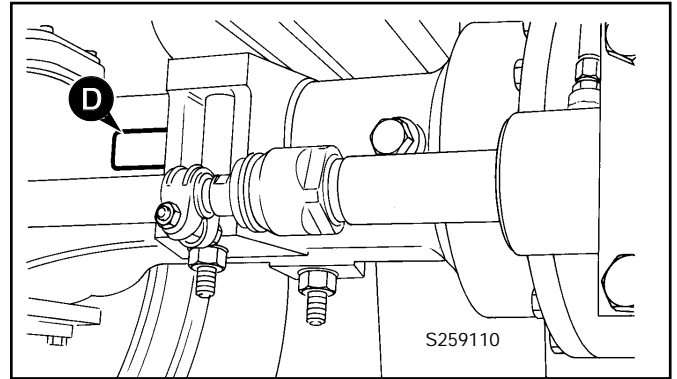
Typical Engine Identification Number

AB 50262 U 500405 P
A B C D E

- A** Engine Type
 AB = 4 cylinder turbo
- B** Build Number
- C** Country of Origin
- D** Engine Sequence Number
- E** Year of Manufacture

Serial Plates

- A** Front Axle (2WS machine)
- B** Front Axle (4WS machine)
- C** Rear Axle (2WS machine)
- D** Rear Axle (4WS machine)
- E** Synchro Shuttle Transmission
- F** Powershift Transmission
- G** Engine



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.

UNF Grade 'S' Bolts

Bolt Size in	(mm)	Hexagon (A/F) in	Torque Settings		
			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)	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
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

Bolt Size	(mm)	Hexagon (A/F) mm	Torque Settings		
			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

Bolt Size	(mm)	Torque Settings (for steel rivet nuts)		
		Nm	kgf m	lbf ft
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.

Service Tools Numerical List

		Page No.			Page No.
460/15708	Flow Test Adapter	4 - 13	816/55040	Pressure Test 'T' Adapter	4 - 6
460/15707	Banjo Bolt	4 - 13	816/60096	Adapter	4 - 8
1406/0011	Bonded Washer	4 - 7	823/10420	Shim Kit - Powershift gearbox, layshaft clutch	4 - 17
1406/0014	Bonded Washer	4 - 7	825/00410	Crowfoot Wrench	4 - 4
1406/0018	Bonded Washer	4 - 7, 13	825/99833	Adapter for 825/00410	4 - 4
1406/0021	Bonded Washer	4 - 6, 4 - 7	826/01099	Rivet Nut	4 - 1
1406/0029	Bonded Washer	4 - 7	826/01101	Rivet Nut	4 - 1
1604/0003	Male Adapter	4 - 7	826/01102	Rivet Nut	4 - 1
1604/0004	Male Adapter	4 - 7, 13	826/01103	Rivet Nut	4 - 1
1604/0006	Male Adapter	4 - 6, 4 - 7	826/01104	Rivet Nut	4 - 1
1604/0008	Adapter	4 - 6	826/01105	Rivet Nut	4 - 1
1606/0003	Male Adapter	4 - 7	892/00011	Spool Clamp	4 - 8
1606/0004	Male Adapter	4 - 7	892/00041	De-glazing Tool	4 - 21
1606/0007	Male Adapter	4 - 7	892/00047	Adapter	4 - 8
1606/0008	Male Adapter	4 - 7	892/00048	Adapter	4 - 8
1606/0009	Male Adapter	4 - 7	892/00049	Adapter	4 - 8
1606/0012	Male Adapter	4 - 6, 4 - 7	892/00051	Adapter	4 - 8
1606/0014	Male Adapter	4 - 7	892/00055	Blanking Plug	4 - 8
1606/0015	Male Adapter	4 - 6, 4 - 7	892/00056	Blanking Plug	4 - 8
1606/0017	Male Adapter	4 - 7	892/00057	Blanking Plug	4 - 8
1612/0006	Adapter	4 - 6	892/00058	Blanking Plug	4 - 8
2401/0222	O-ring	4 - 13	892/00059	Blanking Plug	4 - 8
2403/0110	O-ring	4 - 13	892/00060	Blanking Plug	4 - 8
2403/0108	O-ring	4 - 13	892/00071	Male Adapter	4 - 7
4101/0651	Retainer (High Strength)	5 - 1	892/00074	Female Connector	4 - 8
4101/0250	Threadlocker and Sealer (10 ml)	5 - 1	892/00075	Female Connector	4 - 8
4101/0251	Threadlocker and Sealer (50 ml)	5 - 1	892/00076	Female Connector	4 - 8
4101/0451	Threadlocker	5 - 1	892/00077	Female Connector	4 - 8
4102/0502	High Strength Gasketing	5 - 1	892/00078	Connector	4 - 6
4102/0551	High Strength Threadlocker	5 - 1	* 892/01054	Adaptor for Compression Testing	4 - 21
4102/0933	Clear Silicone Sealant	5 - 1	892/00137	Micro-Bore Hose 1/4in. BSP, 3 Metres	4 - 7
4102/1212	Multi-Gasket	5 - 1	892/00167	Ram Seal Protection Sleeve 90 mm	4 - 9
4102/1951	Threadseal	5 - 1	892/00174	Measuring Cup	4 - 11
4102/2309	Black Polyurethane Sealant	5 - 1	892/00179	Bearing Press	4 - 10
4103/2109	Ultra Fast Adhesive (310ml)	5 - 1	892/00180	Seal Fitting Tool	4 - 20
4104/0251	Activator (Aersol)	5 - 1	892/00181	Replacement Plastic Boss	4 - 20
4104/0253	Activator (Bottle)	5 - 1	892/00182	Bearing Pad Driver	4 - 12
4104/1203	Active Wipe 205 (250g)	5 - 1	892/00223	Hand Pump	4 - 7
4104/1206	Active Wipe 205 (30 ml)	5 - 1	892/00224	Impulse Extractor	4 - 11
4104/1310	Hand Cleaner	4 - 1	892/00225	Adapter for Extractor	4 - 11
4104/1538	JCB Cleaner & Degreaser	5 - 1	892/00252	Test Block for Loader Valve A.R.V (214e Machines Only)	4 - 9
4104/1557	Cleaner/Degreaser (400 ml)	5 - 1	892/00253	Pressure Test Kit	4 - 6
4201/4906	Black Primer 206J (30ml)	5 - 1	892/00255	Pressure Test Adapter	4 - 6
* 721/10885	Interconnecting cable (G/box ECU to Data Link Adaptor)	4 - 18	892/00256	Pressure Test Adapter	4 - 6
816/00017	Adapter	4 - 8	892/00257	Pressure Test Adapter	4 - 6
816/00189	Blanking Cap	4 - 8	892/00258	Pressure Test Adapter	4 - 6
816/00190	Blanking Cap	4 - 8	892/00259	Pressure Test Adapter	4 - 6
816/00193	Blanking Cap	4 - 8	892/00260	Pressure Test Adapter	4 - 6
816/00196	Blanking Cap	4 - 8	892/00261	Pressure Test Adapter	4 - 6
816/00197	Blanking Cap	4 - 8	892/00262	Pressure Test 'T' Adapter	4 - 6, 4 - 7
816/00294	Blanking Cap	4 - 8	892/00263	Pressure Test 'T' Adapter	4 - 6
816/00439	Male Adapter	4 - 7	892/00264	Pressure Test 'T' Adapter	4 - 6
816/00440	Male Adapter	4 - 7	892/00265	Pressure Test 'T' Adapter	4 - 6
816/15007	Male Adapter	4 - 7	892/00268	Flow Monitoring Unit	4 - 6
816/15008	Male Adapter	4 - 7	892/00269	Sensor Head	4 - 6
816/15118	Pressure Test Adapter	4 - 6	892/00270	Load Valve	4 - 6
816/20008	Adapter	4 - 6	892/00271	Adapter	4 - 6
816/20013	Adapter	4 - 6	892/00272	Adapter	4 - 6
816/50005	Adapter	4 - 8	892/00273	Sensor Head	4 - 6
816/50043	Adapter	4 - 8	892/00274	Adapter	4 - 7
816/55038	Pressure Test 'T' Adapter	4 - 6			

Service Tools Numerical List

		Page No.			Page No.
* 892/00275	Adapter	4 - 6	892/01079	Ring Socket Spanner	
* 892/00276	Adapter	4 - 6		Mainshaft setting ring	4 - 13
892/00277	Adapter	4 - 6	892/01080	Ring Socket Spanner	
892/00278	Gauge	4 - 7		Layshaft setting ring	4 - 13
892/00279	Gauge	4 - 7	892/01077	Synchro Shuttle Gearbox Selector	
892/00282	Shunt	4 - 4		Shaft Lock Screw	4 - 13
892/00283	Tool Kit Case	4 - 4	892/01078	Synchro Shuttle Gearbox	
892/00284	Tachometer	4 - 4		Mainshaft Adjuster	4 - 13
892/00285	Hydraulic Oil Temperature Probe	4 - 4	892/01076	Synchro Shuttle Support Plate	
892/00286	Surface Temperature Probe	4 - 4		Transfer gear end float setting	4 - 13
892/00293	Connector Pipe	4 - 6	892/01082	Powershift - Assembly Cradle	4 - 17
892/00294	Connector Pipe	4 - 6	892/01083	Powershift - Assembly tool,	
892/00298	Fluke Meter	4 - 4		transfer gear	4 - 17
892/00301	Flow Test Adapter	4 - 10	892/01084	Powershift - Transfer gear, bearing	
892/00302	Flow Test Adapter	4 - 10		assembly	4 - 17
892/00309	ARV Test Kit	4 - 7	892/01085	Powershift - Seal fitting tool	4 - 17
892/00333	Heavy Duty Socket	4 - 11	892/01092	Wheel Hub Service Kit	4 - 19
892/00334	Ram Seal Fitting Tool	4 - 9	892/01096	Speed Sensor Test Harness	4 - 17
892/00335	ARV Cartridge Removal Tool	4 - 7	892/01110	Torque Converter Alignment Tool	4 - 18
892/00347	Connector - Hose to gauge	4 - 6	926/15500	Rubber Spacer Blocks	4 - 3
892/00706	Test Probe	4 - 6, 4 - 7	992/04000	Torque Multiplier	4 - 12
892/00812	Drive Coupling Spanner	4 - 10	992/04800	Flange Spanner	4 - 12
892/00817	Heavy Duty Socket	4 - 11	992/07608	Bearing Adapter	4 - 10
892/00818	Heavy Duty Socket	4 - 11	992/07609	Bearing Adapter	4 - 10
892/00819	Heavy Duty Socket	4 - 11	992/07610	Bearing Adapter	4 - 10
892/00822	Splined Bolt Socket	4 - 11	992/07611	Bearing Adapter	4 - 10
892/00836	Lifting Wire Assembly	4 - 21	992/07612	Bearing Adapter	4 - 10
892/00842	Glass Lifter	4 - 2	992/07613	Bearing Adapter	4 - 10
892/00843	Folding Stand	4 - 1	992/09100	Spool Clamp	4 - 8
892/00844	Long Knife	4 - 3	992/09200	Charging Tool	4 - 1
892/00845	Cartridge Gun	4 - 1	992/09300	Ram Spanner	4 - 8
892/00846	Glass Extractor (Handles)	4 - 2	992/09400	Ram Spanner	4 - 8
892/00847	Nylon Spatula	4 - 3	992/09500	Ram Spanner	4 - 8
892/00848	Wire Starter	4 - 2	992/09600	Ram Spanner	4 - 8
892/00849	Braided Cutting Wire	4 - 3	992/09700	Ram Spanner	4 - 8
892/00881	Spool Seal Fitting Tool	4 - 7	992/09900	Ram Spanner	4 - 8
892/00882	Alternator Pulley Socket	4 - 5	992/10000	Ram Spanner	4 - 8
892/00891	Wheel Hub Seal - Fitting Tool	4 - 19	992/12300	12V Mobile Oven	4 - 1
892/00918	Setting Tool Kit	4 - 16	992/12400	Static Oven - 2 Cartridge	4 - 2
892/00920	Flow Test Adapter	4 - 10	992/12600	Static Oven - 6 Cartridge	4 - 2
892/00948	Charging Kit	4 - 9	992/12800	Cut-Out Knife	4 - 2
892/00949	Pressure Gauge	4 - 9	992/12801	"L" Blades	4 - 2
892/00956	Timing Pin	4 - 21	993/55700	Direct Glazing Kit	5 - 1
892/00964	Test Point (1/8BSP)	4 - 12	993/59500	Impulse Extractor Adapter	4 - 11
892/00965	Test Point (3/8BSP)	4 - 12	993/68100	Slide Hammer Kit	4 - 3
892/00966	Test Point (1/4BSP)	4 - 12	993/69800	Seal Kit	4 - 6
892/01016	Ram Seal Protection Sleeve 25 mm	4 - 9	993/70111	Breakback Torque Wrench	4 - 15
892/01017	Ram Seal Protection Sleeve 30 mm	4 - 9	993/85700	Battery Tester	4 - 4
892/01018	Ram Seal Protection Sleeve 40 mm	4 - 9	998/10650	Powershift Torque Converter	
892/01019	Ram Seal Protection Sleeve 50 mm	4 - 9		- Pressure Test Kit	4 - 12
892/01020	Ram Seal Protection Sleeve 50 mm (slew ram)	4 - 9	998/10738	Powershift Clutch - Adapter Spanner	4 - 13
892/01021	Ram Seal Protection Sleeve 60 mm	4 - 9	7210/0001	Dummy Plug	4 - 5
892/01022	Ram Seal Protection Sleeve 60 mm (slew ram)	4 - 9	7210/0002	Wire Seal (1.4 - 2.2 mm dia.)	4 - 5
892/01023	Ram Seal Protection Sleeve 65 mm	4 - 9	7210/0003	Wire Seal (2.2 - 2.9 mm dia.)	4 - 5
892/01024	Ram Seal Protection Sleeve 70 mm	4 - 9	7212/0001	2 Way Socket Connector	4 - 5
892/01025	Ram Seal Protection Sleeve 75 mm	4 - 9	7212/0002	2 Way Pin Housing	4 - 5
892/01026	Ram Seal Protection Sleeve 80 mm	4 - 9	7212/0003	2 Way Socket Retainer	4 - 5
892/01027	Piston Seal Assembly Tool	4 - 9	7212/0004	2 Way Pin Retainer	4 - 5
892/01033	Electronic Service Tool Kit	4 - 18	7213/0001	3 Way Socket Connector	4 - 5
			7213/0002	3 Way Pin Housing	4 - 5
			7213/0003	3 Way Socket Retainer	4 - 5
			7213/0004	3 Way Pin Retainer	4 - 5

Service Tools Numerical List

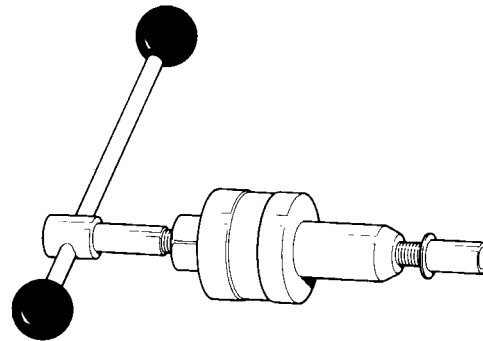
		Page No.			
* 7213/0005	3 Way Socket Connector (DT)	4 - 5	The following parts are replacement items for kits and would normally be included in the kit numbers quoted on pages 1/3-1 and 1/3-2.		
* 7213/0006	3 Way Pin Housing (DT)	4 - 5			
7213/0007	3 Way Socket Retainer (DT)	4 - 5			
7213/0008	3 Way Pin Retainer (DT)	4 - 5			
7214/0001	4 Way Socket Connector	4 - 5			
7214/0002	4 Way Pin Housing	4 - 5			
7214/0003	4 Way Socket Retainer	4 - 5			
7214/0004	4 Way Pin Retainer	4 - 5			
7216/0001	6 Way Socket Connector	4 - 5			
7216/0002	6 Way Pin Housing	4 - 5			
7216/0003	6 Way Socket Retainer	4 - 5			
7216/0004	6 Way Pin Retainer	4 - 5			
7218/0001	8 Way Socket Connector	4 - 5			
7218/0002	8 Way Pin Housing	4 - 5			
7218/0003	8 Way Socket Retainer	4 - 5			
7218/0004	8 Way Pin Retainer	4 - 5			
7219/0001	10 Way Socket Connector	4 - 5			
7219/0002	10 Way Pin Housing	4 - 5			
7219/0003	10 Way Socket Retainer	4 - 5			
7219/0004	10 Way Pin Retainer	4 - 5			
7219/0005	14 Way Socket Connector	4 - 5			
7219/0006	14 Way Pin Housing	4 - 5			
7219/0007	14 Way Socket Retainer	4 - 5			
7219/0008	14 Way Pin Retainer	4 - 5			
			Service Tools Numerical List		Page No.
			Replacement item for kit no. 892/00180		
			892/00181		4 - 9
			Replacement items for kit no. 892/00253		
			892/00201	Replacement Gauge	4 - 6
			892/00202	Replacement Gauge	4 - 6
			892/00203	Replacement Gauge	4 - 6
			892/00254	Replacement Hose	4 - 6
			Replacement items for kit no. 892/00309		
			892/00340	Test Block Body	4 - 7
			892/00341	Setting Body	4 - 7
			892/00343	Spanner	4 - 7
			892/00345	Anti-Cavitation Lock Out Bung	4 - 7
			993/68300	Adjusting Pin	4 - 7
			Replacement items for kit no. 993/68100		
			993/68101	Slide Hammer	4 - 3
			993/68102	End Stops	4 - 3
			993/68103	Adaptor - M20 x 5/8" UNF	4 - 3
			993/68104	Adaptor - M20 x 1" UNF	4 - 3
			993/68105	Adaptor - M20 x M20	4 - 3
			993/68106	Adaptor - M20 x M24	4 - 3
			993/68107	Bar - M20 x M20 X 800MM	4 - 3
			993/68108	Adaptor - M20 x 7/8" UNF	4 - 3
			993/68109	Adaptor - M20 x M12	4 - 3
			993/68110	Adaptor - M20 x 5/8" UNF (Shoulder)	4 - 3
			993/68111	Adaptor - M20 x 1/2" UNF	4 - 3

Service Tools (cont'd)

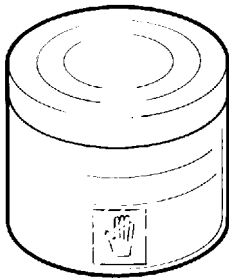
Section B - Body & Framework

- 826/01099 M6 x 16mm Rivet Nut
- 826/01101 M6 x 19mm Rivet Nut
- 826/01103 M8 x 18mm Rivet Nut
- 826/01102 M8 x 21mm Rivet Nut
- 826/01104 M10 x 23mm Rivet Nut
- 826/01105 M10 x 26mm Rivet Nut

Installation Tool Available from:
 Bollhoff Fastenings Ltd.
 Midacre
 The Willenhall Estate
 Rose Hill
 Willenhall
 West Midlands, WV13 2JW



S261210



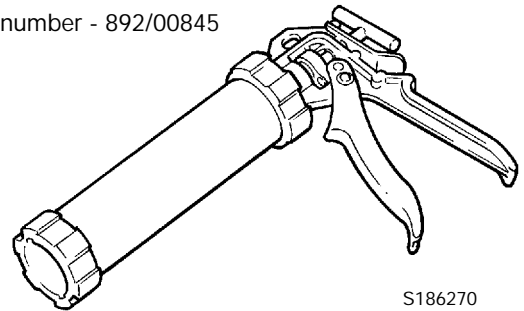
Hand Cleaner - special blend for the removal of polyurethane adhesives.

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

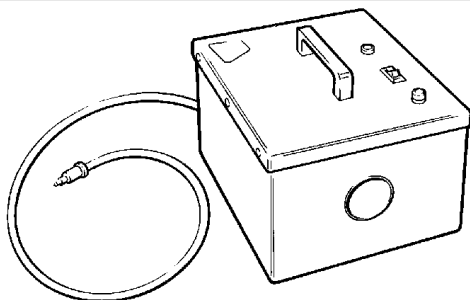
S186240

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

JCB part number - 892/00845



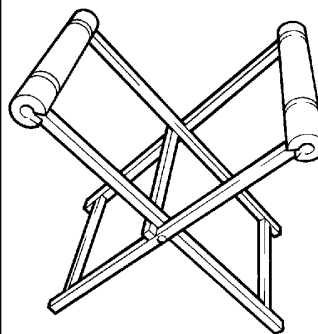
S186270



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

S186250



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

JCB part number - 892/00843

S186280

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