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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.

CE JCB J.C.BAMFORD EXCAVATORS LTD.
ROCESTER, STAFFS, ENGLAND
CONSTRUCTOR

EN 29001 FM21018

Product Identification Number

VIN Vehicle Identification Number

ENGINE SERIAL NUMBER

TRANSMISSION SERIAL NUMBER

WEIGHT kg

FRONT AXLE SERIAL NUMBER

REAR AXLE SERIAL NUMBER

ENGINE POWER kW @ RPM

S218131 817/00000

U.K. and R.O.W.

MADE IN UK JCB J.C.BAMFORD EXCAVATORS LTD.
ROCESTER, STAFFS, ENGLAND
CONSTRUCTOR

EN 29001 FM21018

VIN Vehicle Identification Number

ENGINE SERIAL NUMBER

TRANSMISSION SERIAL NUMBER

PIN Product Identification Number

FRONT AXLE SERIAL NUMBER

REAR AXLE SERIAL NUMBER

ENGINE POWER kW @ RPM

JCB NORTH AMERICAN OPERATIONS AT :- 3375 NORTH SERVICE ROAD
WHITE MARSH UNIT C6
MARYLAND 21162 BURLINGTON, ONTARIO,
U.S.A. L7N362
TEL : (410) 335 2800 TEL : (905) 335 3441
FAX : (410) 335 3695 FAX : (905) 335 5567

PARTS AND SERVICE ARE OBTAINABLE FROM YOUR JCB DISTRIBUTOR 817/00000

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)

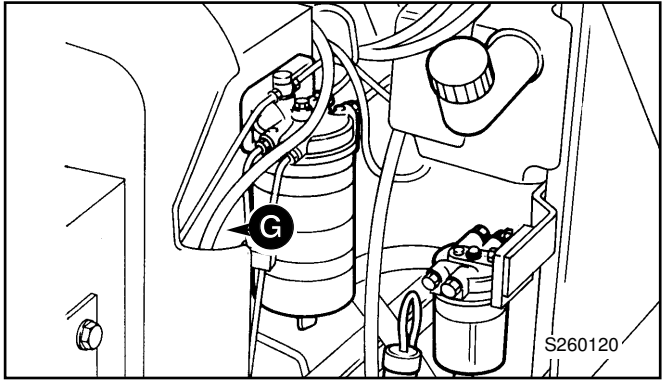
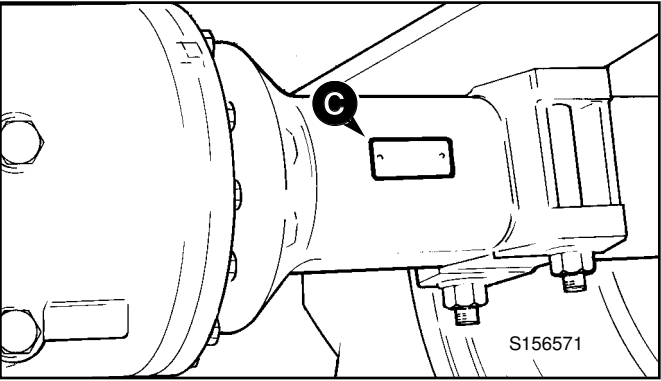
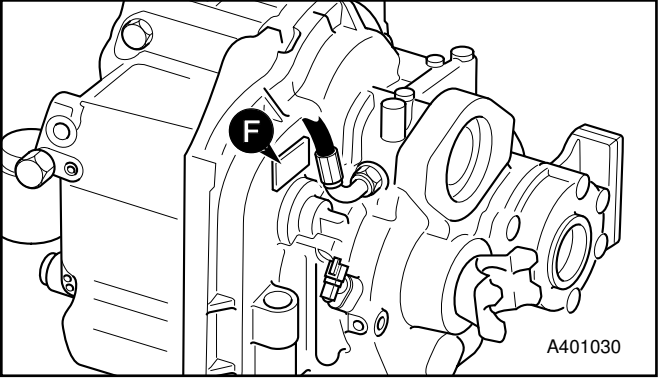
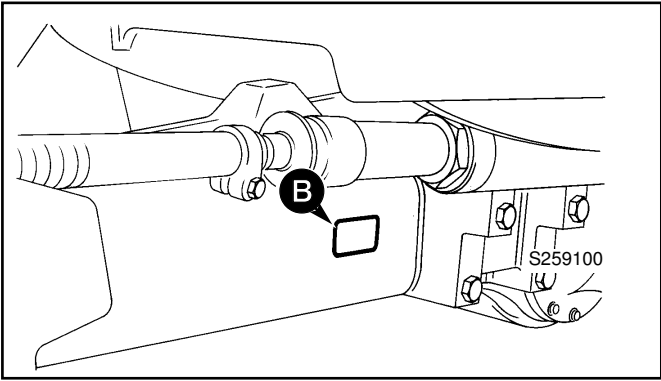
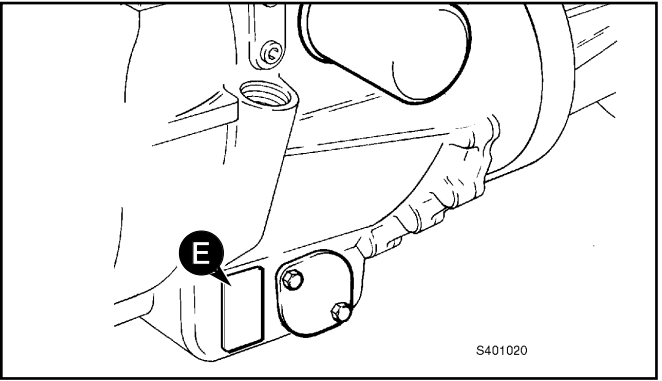
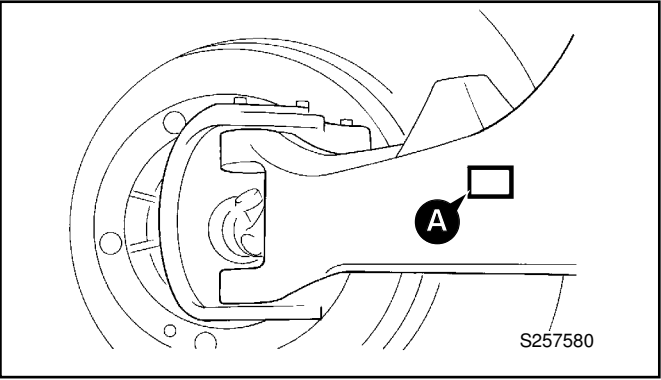
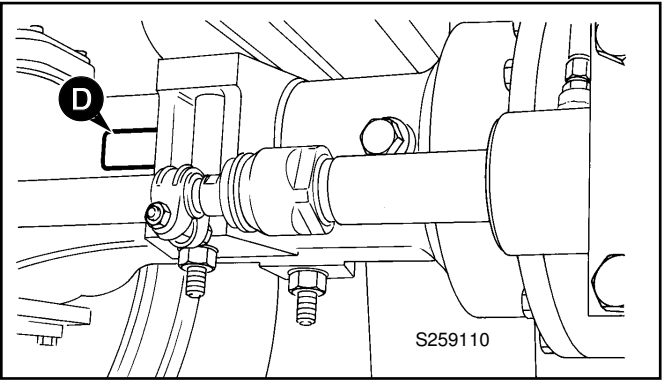
Typical Engine Identification Number

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



cardiagn.com

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	Nm	Torque Settings 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	Nm	Torque Settings 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

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4101/0250	Threadlocker and Sealer (10 ml)	5 - 1	892/00076	Female Connector	4 - 8
4101/0251	Threadlocker and Sealer (50 ml)	5 - 1	892/00077	Female Connector	4 - 8
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4102/0502	High Strength Gasketing	5 - 1	892/00137	Micro-Bore Hose 1/4in. BSP, 3 Metres	4 - 7
4102/0551	High Strength Threadlocker	5 - 1	892/00167	Ram Seal Protection Sleeve 90 mm	4 - 9
4102/0933	Clear Silicone Sealant	5 - 1	892/00174	Measuring Cup	4 - 11
4102/1212	Multi-Gasket	5 - 1	892/00179	Bearing Press	4 - 10
4102/1951	Threadseal	5 - 1	892/00180	Seal Fitting Tool	4 - 9
4102/2309	Black Polyurethane Sealant	5 - 1	892/00181	Replacement Plastic Boss	4 - 9
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4104/0251	Activator (Aersol)	5 - 1	892/00223	Hand Pump	4 - 7
4104/0253	Activator (Bottle)	5 - 1	892/00224	Impulse Extractor	4 - 11
4104/1203	Active Wipe 205 (250g)	5 - 1	892/00225	Adapter for Extractor	4 - 11
4104/1206	Active Wipe 205 (30 ml)	5 - 1	892/00253	Pressure Test Kit	4 - 6
4104/1310	Hand Cleaner	4 - 1	892/00255	Pressure Test Adapter	4 - 6
4104/1538	JCB Cleaner & Degreaser	5 - 1	892/00256	Pressure Test Adapter	4 - 6
4104/1557	Cleaner/Degreaser (400 ml)	5 - 1	892/00257	Pressure Test Adapter	4 - 6
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816/50005	Adapter	4 - 8	892/00275	Adapter	4 - 6
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892/00285	Hydraulic Oil Temperature Probe	4 - 4		Mainshaft Adjuster	4 - 13
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892/00333	Heavy Duty Socket	4 - 11		assembly	4 - 17
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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
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892/01017	Ram Seal Protection Sleeve 30 mm	4 - 9	7210/0001	Dummy Plug	4 - 5
892/01018	Ram Seal Protection Sleeve 40 mm	4 - 9	7210/0002	Wire Seal (1.4 - 2.2 mm dia.)	4 - 5
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	(slew ram)		7212/0002	2 Way Pin Housing	4 - 5
892/01021	Ram Seal Protection Sleeve 60 mm	4 - 9	7212/0003	2 Way Socket Retainer	4 - 5
892/01022	Ram Seal Protection Sleeve 60 mm	4 - 9	7212/0004	2 Way Pin Retainer	4 - 5
	(slew ram)		7213/0001	3 Way Socket Connector	4 - 5
892/01023	Ram Seal Protection Sleeve 65 mm	4 - 9	7213/0002	3 Way Pin Housing	4 - 5
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892/01025	Ram Seal Protection Sleeve 75 mm	4 - 9	7213/0004	3 Way Pin Retainer	4 - 5
892/01026	Ram Seal Protection Sleeve 80 mm	4 - 9	7213/0005	3 Way Socket Connector (DT)	4 - 5
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892/01077	Synchro Shuttle Gearbox Selector		7216/0001	6 Way Socket Connector	4 - 5

Service Tools Numerical List

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* 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

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.

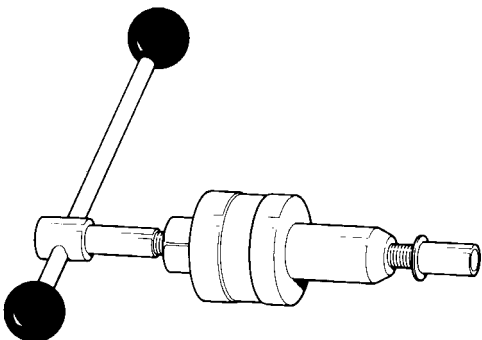
Service Tools Numerical List		Page No.
Replacement item for kit no. 892/00180		
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Replacement items for kit no. 892/00253		
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892/00202	Replacement Gauge	4 - 6
892/00203	Replacement Gauge	4 - 6
892/00254	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		
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993/68102	End Stops	4 - 3
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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)

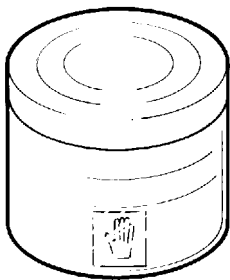
Section B - Body & Framework

- 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



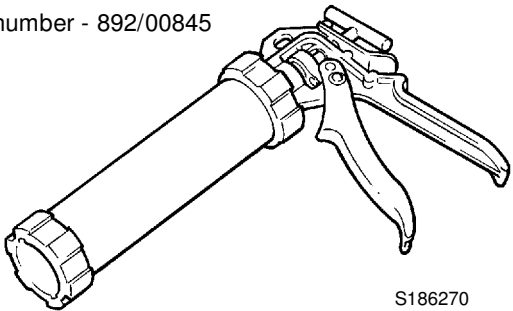
Hand Cleaner - special blend for the removal of polyurethane adhesives.

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

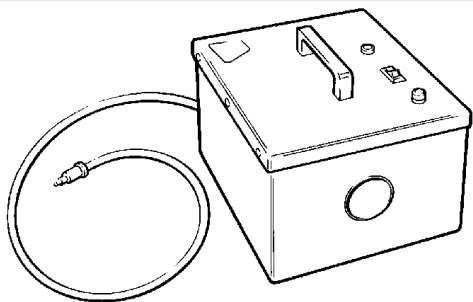
S186240

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

JCB part number - 892/00845



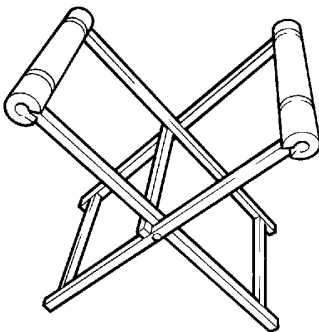
S186270



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

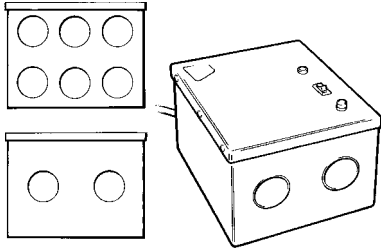
S186280

Service Tools (cont'd)

Section B - Body & Framework

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.

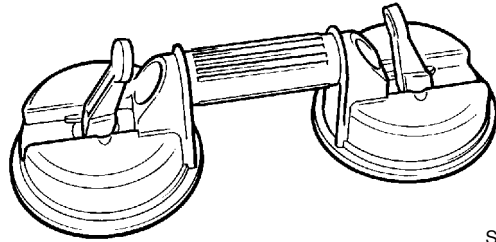
JCB part number:
992/12400 - 2 Cartridge x 240V
992/12600 - 6 Cartridge x 240V



S186260

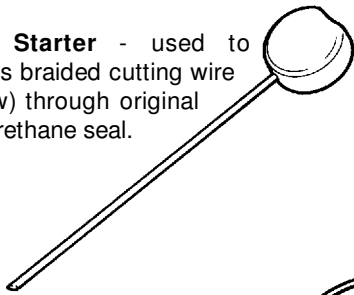
Glass Lifter - minimum 2 off - essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

JCB part number - 892/00842

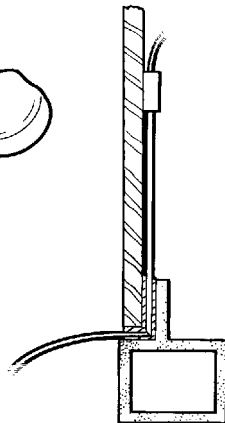


S186300

Wire Starter - used to access braided cutting wire (below) through original polyurethane seal.



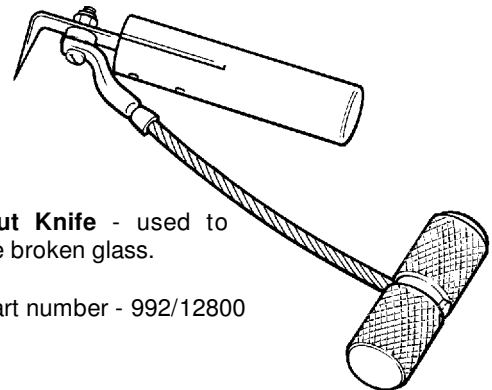
JCB part number - 892/00848



S186310

Cut-Out Knife - used to remove broken glass.

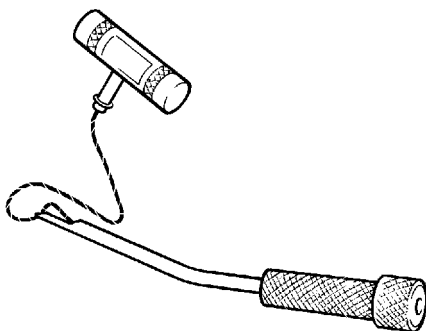
JCB part number - 992/12800



S186340

Glass Extractor (Handles) - used with braided cutting wire (below) to cut out broken glass.

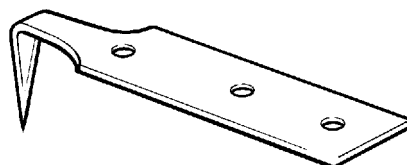
JCB part number - 892/00846



S186320

'L' Blades - 25 mm (1 in) cut - replacement blades for cut-out knife (above).

JCB part number - 992/12801 (unit quantity = 5 off)



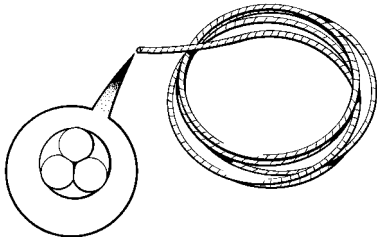
S186350

Service Tools (cont'd)

Section B - Body & Framework

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

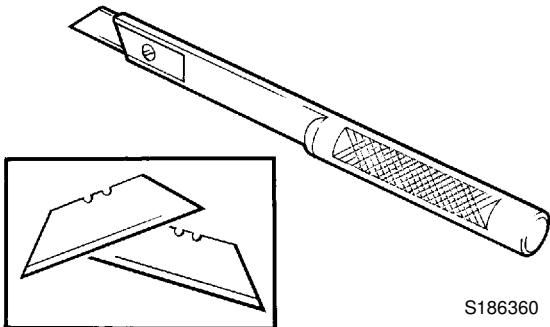
JCB part number - 892/00849
(approx 25 m length)



S186330

Long Knife - used to give extended reach for normally inaccessible areas.

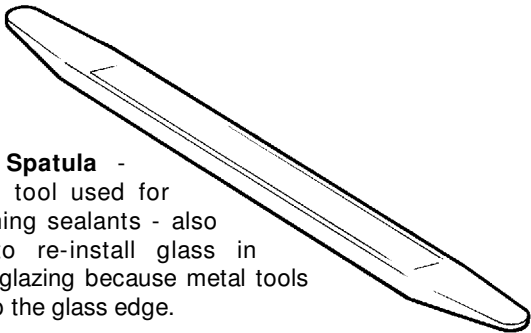
JCB part number - 892/00844



S186360

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.

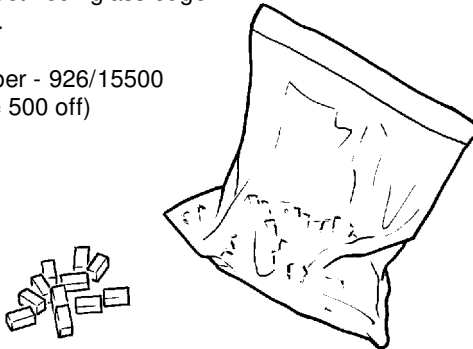
JCB part number - 892/00847



S186470

Rubber Spacer Blocks - used to provide the correct set clearance between glass edge and cab frame.

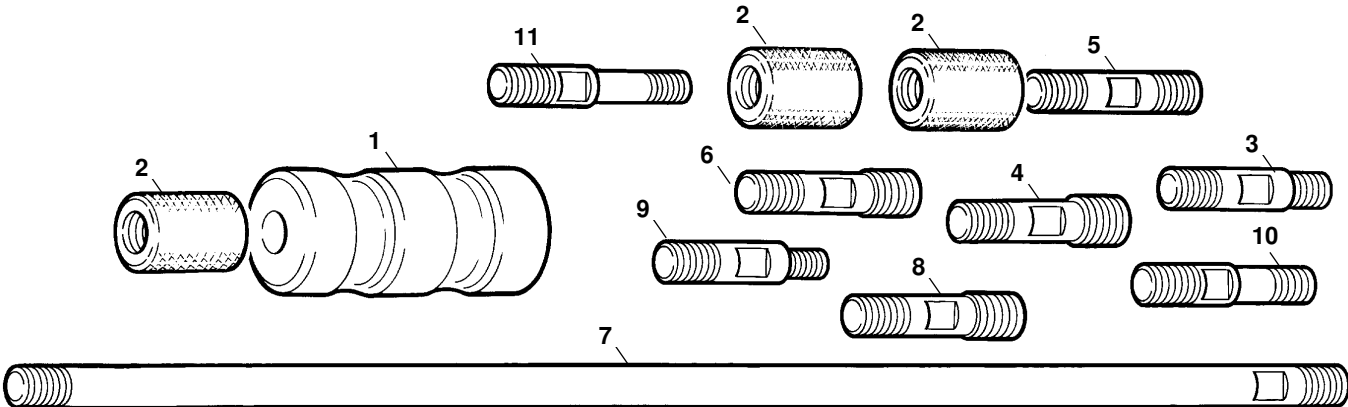
JCB part number - 926/15500
(unit quantity = 500 off)



S186550

Slide Hammer Kit - 993/68100

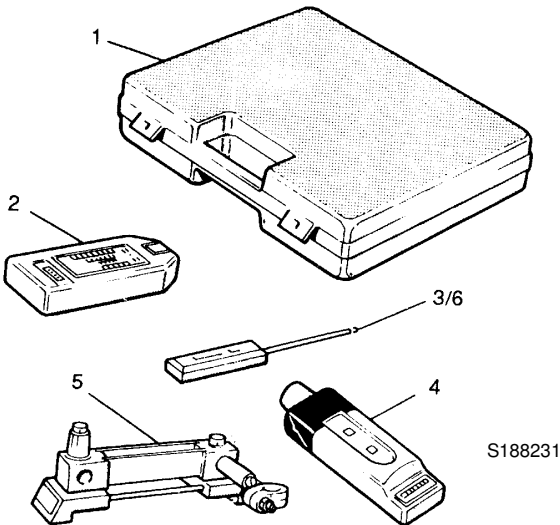
1 :993/68101	Slide Hammer	6 :993/68106	Adaptor - M20 x M24
2 :993/68102	End Stops	7 :993/68107	Bar - M20 x M20 X 800MM
3 :993/68103	Adaptor - M20 x 5/8" UNF	8 :993/68108	Adaptor - M20 x 7/8" UNF
4 :993/68104	Adaptor - M20 x 1" UNF	9 :993/68109	Adaptor - M20 x M12
5 :993/68105	Adaptor - M20 x M20	10 :993/68110	Adaptor - M20 x 5/8" UNF (Shoulder)
		11 :993/68111	Adaptor - M20 x 1/2" UNF



S196910

Service Tools (cont'd)

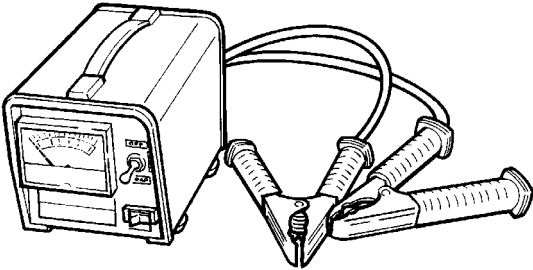
Section C - Electrics



AVO Test Kit

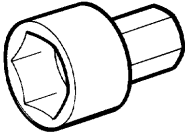
1	892/00283	Tool Kit Case
2	892/00298	Fluke Meter 85
3	892/00286	Surface Temperature Probe
4	892/00284	Venture Microtach Digital Tachometer
5	892/00282	100 amp Shunt - open type
6	892/00285	Hydraulic Temperature Probe

993/85700 Battery Tester



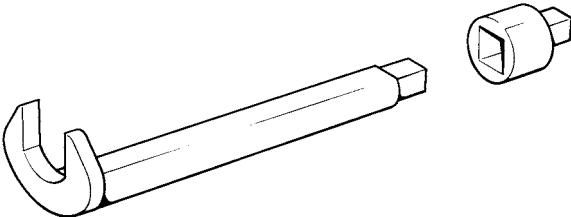
S239510

892/00882 Socket for Alternator Pulley Nut



S216770

825/00410 15 mm Crowfoot Wrench
825/99833 Adapter



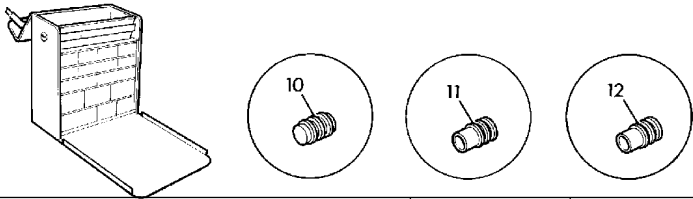
S216200

Service Tools (cont'd)

Section C - Electrics

1		Electrical Repair Kit	6A	:7216/0002	6 Way Pin Housing
2A	:7212/0002	2 Way Pin Housing	6B	:7216/0004	6 Way Pin Retainer
2B	:7212/0004	2 Way Pin Retainer	6C	:7216/0003	6 Way Socket Retainer
2C	:7212/0003	2 Way Socket Retainer	6D	:7216/0001	6 Way Socket Connector
2D	:7212/0001	2 Way Socket Connector	7A	:7218/0002	8 Way Pin Housing
3A	:7213/0002	3 Way Pin Housing	7B	:7218/0004	8 Way Pin Retainer
3B	:7213/0004	3 Way Pin Retainer	7C	:7218/0003	8 Way Socket Retainer
3C	:7213/0003	3 Way Socket Retainer	7D	:7218/0001	8 Way Socket Connector
3D	:7213/0001	3 Way Socket Connector	8A	:7219/0002	10 Way Pin Housing
4A	:7213/0006	3 Way Pin Housing (DT)	8B	:7219/0004	10 Way Pin Retainer
4B	:7213/0008	3 Way Pin Retainer (DT)	8C	:7219/0003	10 Way Socket Retainer
4C	:7213/0007	3 Way Socket Retainer (DT)	8D	:7219/0001	10 Way Socket Connector
4D	:7213/0005	3 Way Socket Connector (DT)	9A	:7219/0006	14 Way Pin Housing
5A	:7214/0002	4 Way Pin Housing	9B	:7219/0008	14 Way Pin Retainer
5B	:7214/0004	4 Way Pin Retainer	9C	:7219/0007	14 Way Socket Retainer
5C	:7214/0003	4 Way Socket Retainer	9D	:7219/0005	14 Way Socket Connector
5D	:7214/0001	4 Way Socket Connector	10	:7210/0001	Dummy Plug
			11	:7210/0002	Wire Seal (1.4 - 2.2 mm dia.)
			12	:7210/0003	Wire Seal (2.2 - 2.9 mm dia.)

1

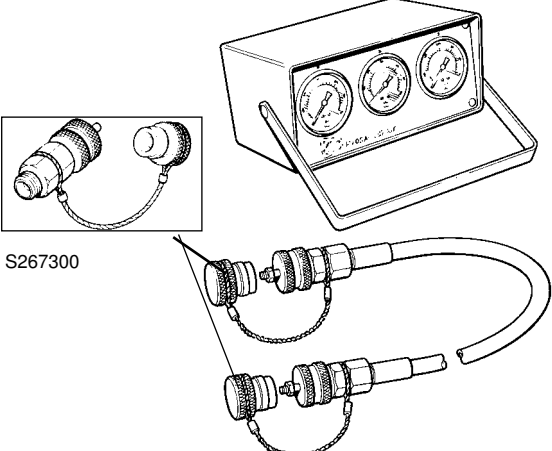


	A	B	C	D
2				
3				
4				
5				
6				
7				
8				
9				

S188380

Service Tools (cont'd)

Section E - Hydraulics

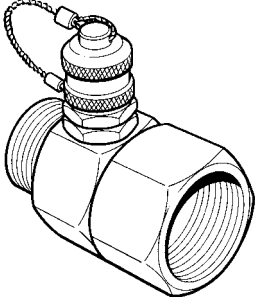


S267300

Hydraulic Circuit Pressure Test Kit

892/00253	Pressure Test Kit
:892/00201	Replacement Gauge 0-20 bar (0-300 lbf/in ²)
:892/00202	Replacement Gauge 0-40 bar (0-600 lbf/in ²)
:892/00203	Replacement Gauge 0-400 bar (0-6000 lbf/in ²)
:892/00254	Replacement Hose
993/69800	Seal Kit for 892/00254 (can also be used with probe 892/00706)
892/00706	Test Probe

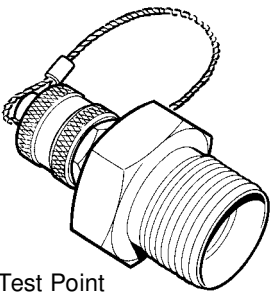
S188121



S188131

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



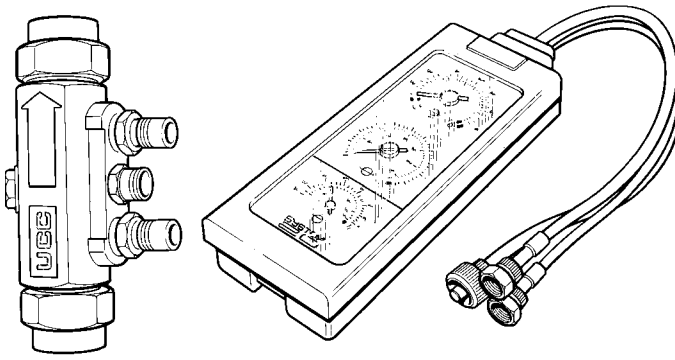
S200141

Pressure Test Adapters

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
892/00260	1.1/4 in BSP x Test Point
892/00261	5/8 in UNF x Test Point

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 l/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



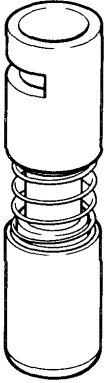
S188151

Service Tools (cont'd)

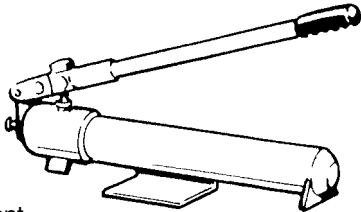
Section E - Hydraulics

892/00881

Valve Spool
Seal Fitting Tool



S261220



Hand Pump Equipment

892/00223

Hand Pump

892/00137

Micro-bore Hose 1/4 in BSP x 3 metres

892/00274

Adapter 1/4 in M BSP x 3/8 in M BSP Taper

892/00262

1/4 in M BSP x 1/4 in F BSP x Test Point

892/00706

Test Probe

892/00278

Gauge 0 - 40 bar (0 - 600 lbf/in²)

892/00279

Gauge 0 - 400 bar (0 - 6000 lbf/in²)

S193850

Components for Valve Block A.R.V. Testing

For 4CX Variable Flow machines use 25/201103

892/00309

A.R.V. Pressure Test Kit

1 : 892/00340

Test Block Body

2 : 892/00341

Setting Body

3 : 993/68300

Adjusting Pin

4 : 892/00343

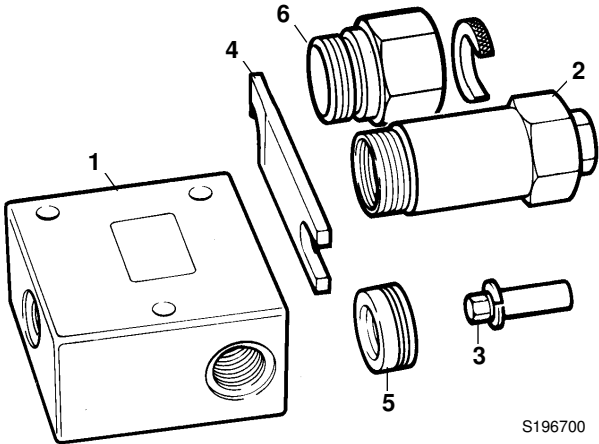
Spanner

5 : 892/00345

Anti-cavitation Lock Out Bung

6 : 892/00335

A.R.V. Cartridge Removal Tool



S196700

Bonded Washers

1406/0011

1/4 in. BSP

1406/0018

1/2 in. BSP

1406/0014

5/8 in. BSP

1406/0021

3/4 in. BSP

1406/0029

1.1/4 in. BSP



S188140

Male Adapters - BSP x NPT (USA only)

816/00439

3/8 in. x 1/4 in.

816/00440

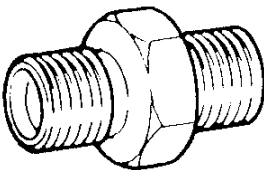
1/2 in. x 1/4 in.

816/15007

3/8 in. x 3/8 in.

816/15008

1/2 in. x 3/8 in.



S193860

Male Adapters - BSP x BSP

1606/0003

3/8 in. x 1/4 in.

1604/0003

3/8 in. x 3/8 in.

892/00071

3/8 in. x 3/8 in. taper

1606/0004

1/2 in. x 1/4 in.

1606/0007

1/2 in. x 3/8 in.

1604/0004

1/2 in. x 1/2 in.

1606/0017

5/8 in. x 1/2 in.

1606/0008

3/4 in. x 3/8 in.

1606/0009

3/4 in. x 1/2 in.

1604/0006

3/4 in. x 3/4 in.

1606/0012

3/4 in. x 1 in.

1606/0014

3/4 in. x 1.1/4 in.

1606/0015

1 in. x 1.1/4 in.

9803/3280

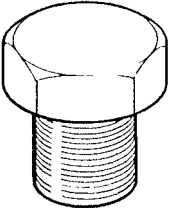
Issue 1

Service Tools (cont'd)

Section E - Hydraulics

Female Cone Blanking Plug

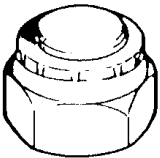
892/00055	1/4 in. BSP
892/00056	3/8 in. BSP
892/00057	1/2 in. BSP
892/00058	5/8 in. BSP
892/00059	3/4 in. BSP
892/00060	1 in. BSP



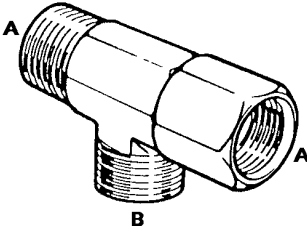
S193870

Male Cone Blanking Cap

816/00294	1/4 in. BSP
816/00189	3/8 in. BSP
816/00190	1/2 in. BSP
816/00197	5/8 in. BSP
816/00196	3/4 in. BSP
816/00193	1 in. BSP

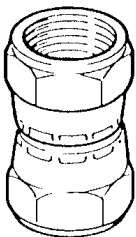


S193880



S193890

892/00047	3/8 in. BSP (A) x 1/4 in. BSP (B)
892/00048	1/2 in. BSP (A) x 1/4 in. BSP (B)
892/00049	5/8 in. BSP (A) x 1/4 in. BSP (B)
816/50043	3/4 in. BSP (A) x 1/4 in. BSP (B)
892/00051	1 in. BSP (A) x 1/4 in. BSP (B)
816/50005	1/2 in. BSP (A) x 1/2 in. BSP (B)
816/60096	3/4 in. BSP (A) x 3/4 in. BSP (B)
816/00017	1 in. BSP (A) x 1 in. BSP (B)

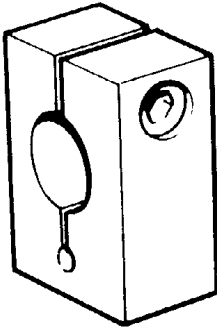


S193900

Female Connectors

892/00074	3/8 in. BSP x 3/8 in. BSP
892/00075	1/2 in. BSP x 1/2 in. BSP
892/00076	5/8 in. BSP x 5/8 in. BSP
892/00077	3/4 in. BSP x 3/4 in. BSP

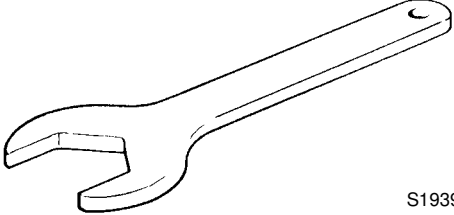
992/09100	Excavator Spool Clamp
892/00011	Spool Clamp



S216210

Hexagon Spanners for Ram Pistons and End Caps

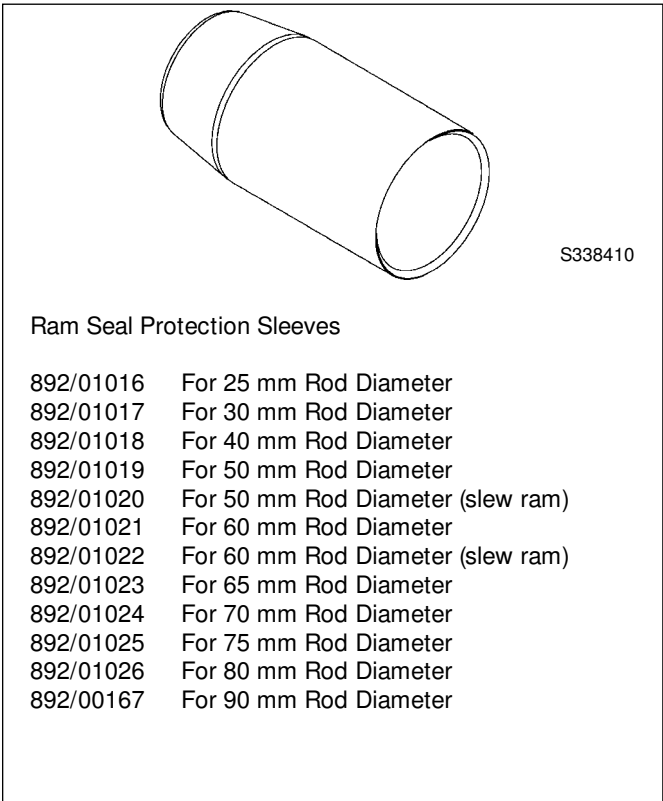
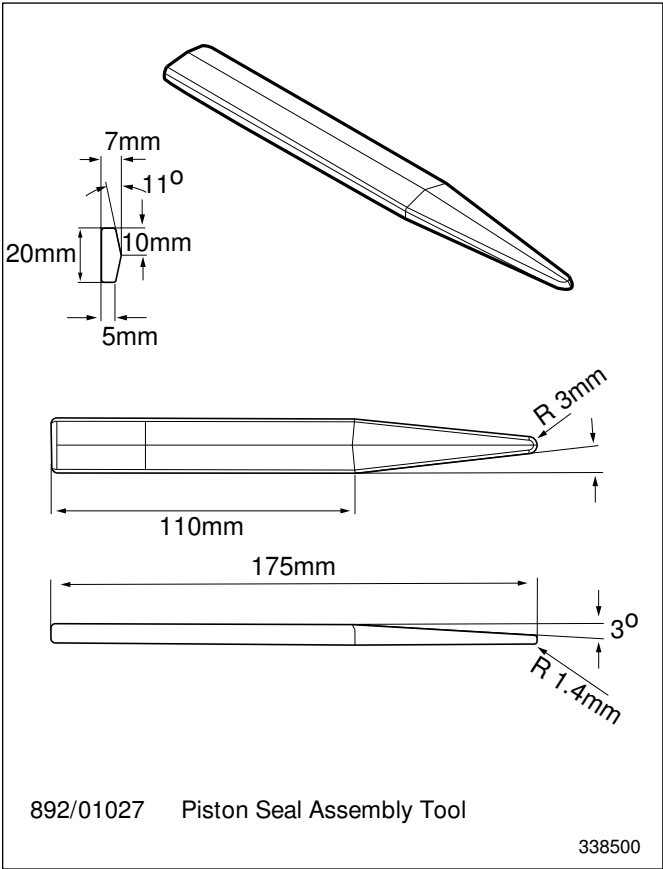
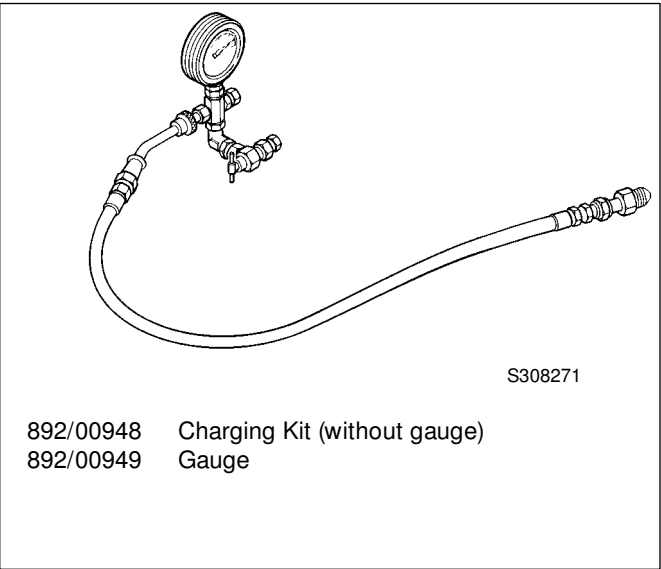
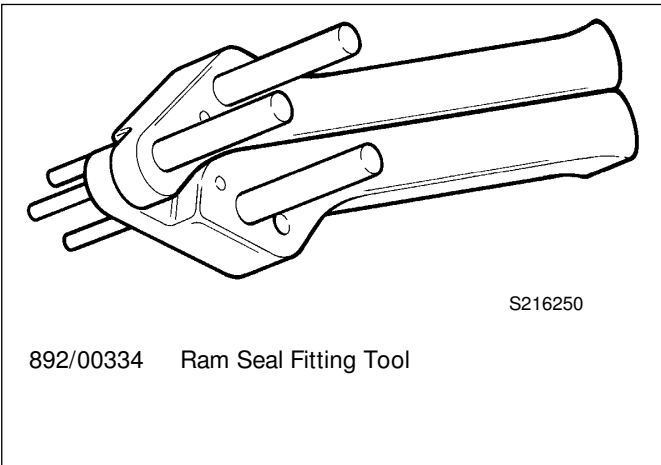
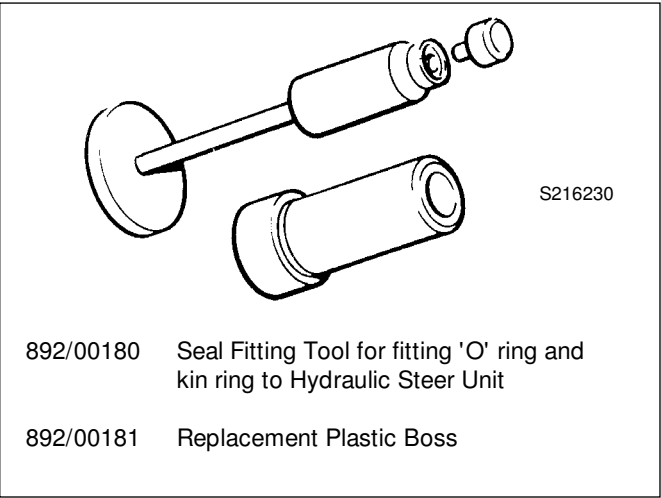
992/09300	55mm A/F
992/09400	65mm A/F
992/09500	75mm A/F
992/09600	85mm A/F
992/09700	95mm A/F
992/09900	115mm A/F
992/10000	125mm A/F



S193930

Service Tools (cont'd)

Section E - Hydraulics

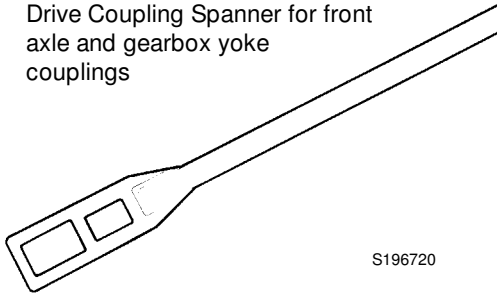


Service Tools (cont'd)

Section F - Transmission

892/00812

Drive Coupling Spanner for front axle and gearbox yoke couplings



S196720

A

892/00920

Flow Test Adapter

B

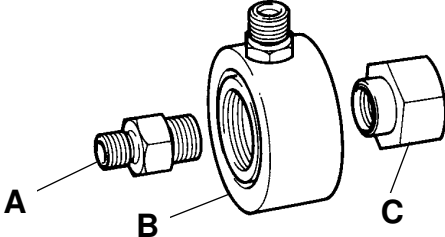
892/00301

Flow Test Adapter

C

892/00302

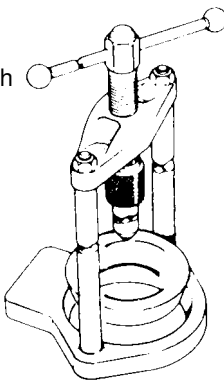
Flow Test Adapter



S266880

892/00179

Bearing Press (use with appropriate adapters)



S188200

992/07608

Bearing Adapter

992/07609

Bearing Adapter

992/07610

Bearing Adapter

992/07611

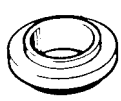
Bearing Adapter

992/07612

Bearing Adapter

992/07613

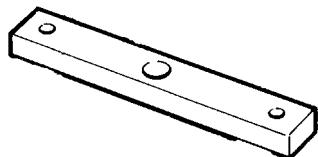
Bearing Adapter



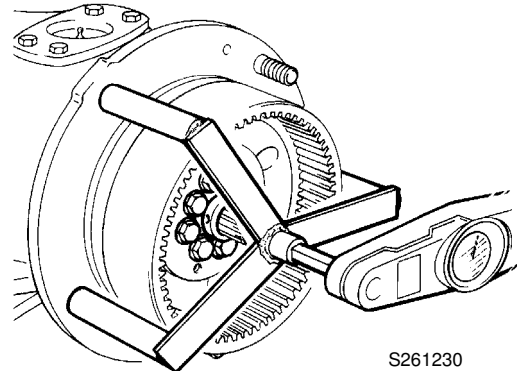
S188160

892/00922

12.2" Torque Converter Alignment Tool



S267260

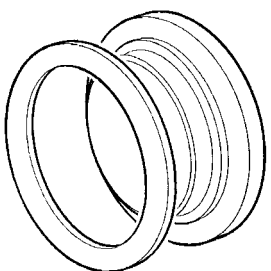


S261230

Torque Measuring Tool for Wheel Hub Seals

Manufacture locally, procedures in this manual show checking the wheel hub seal using a rolling force. However, the torque can be measured using above locally manufactured tool.

Bearing rolling torque is 12 to 22 Nm (9 to 16 lbf ft) excluding seal drag. Maximum permissible including seal drag is 40 Nm (29.5 lbf ft).



892/00891

Fitting Tool Assembly for Wheel Hub Seals

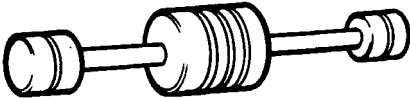
S227760

Service Tools (cont'd)

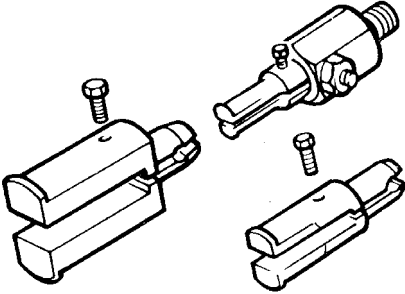
Section F - Transmission

892/00224

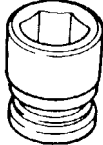
Impulse Extractor Set for Hub Bearing Seals



S197070



892/00225 Adapter - Impulse Extractor
Small 17mm to 25mm
Medium 25mm to 45mm
Large 45mm to 80mm
993/59500 Adapter - Impulse Extractor (syncro
 shuttle and powershift transmission)

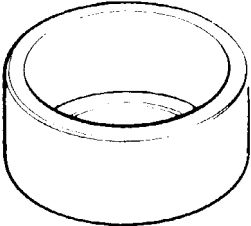


S216290

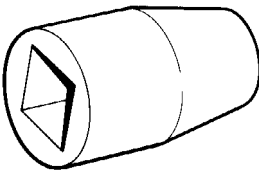
892/00817 17 mm A/F x 3/4in. square drive
892/00818 22 mm A/F x 3/4in. square drive
892/00819 15 mm A/F x 1/2in. square drive
892/00333 19 mm A/F x 3/4in. square drive

892/00174

Measuring Cup - Pinion Head Bearing



S190770



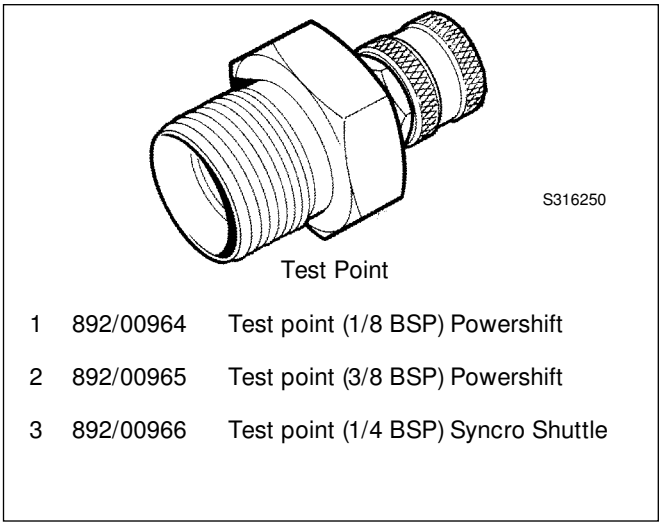
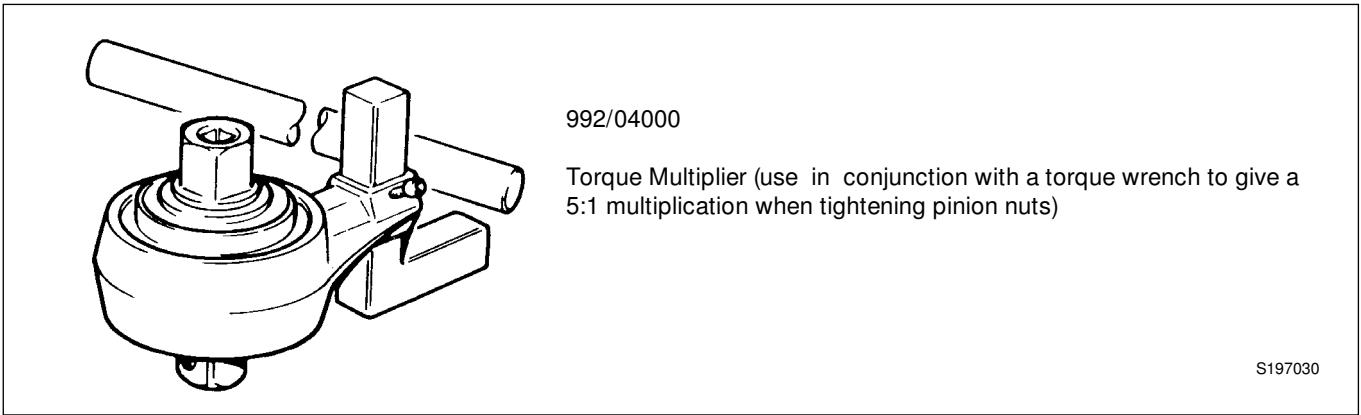
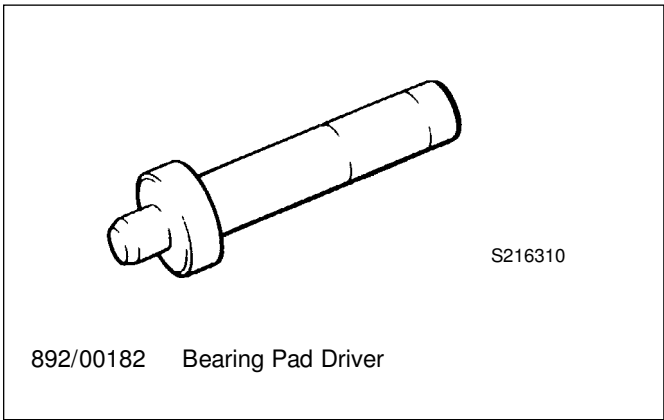
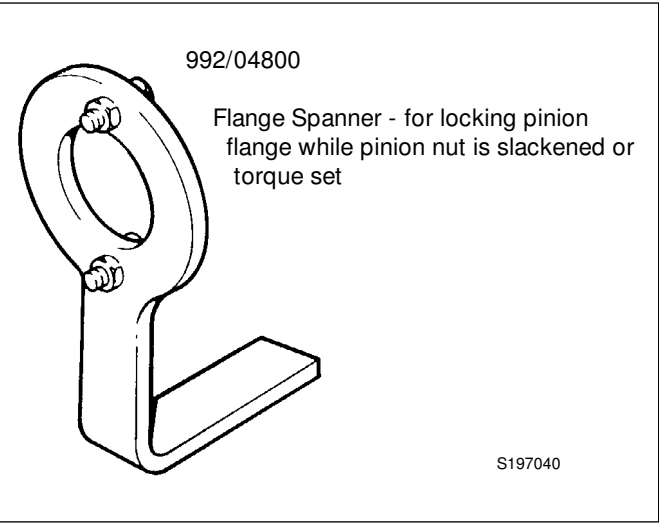
892/00822

Splined Bolt Socket for driveshafts

S197060

Service Tools (cont'd)

Section F - Transmission

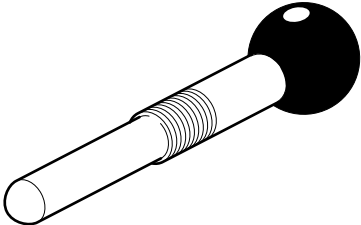


Service Tools (cont'd)

Section F - Transmission

892/01077

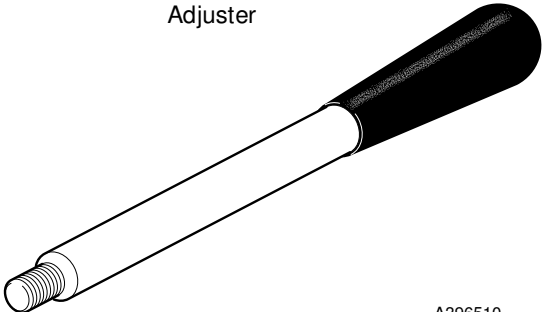
Synchro Shuttle Gearbox - Selector
Shaft Lock Screw



A395350

892/01078

Synchro Shuttle Gearbox - Mainshaft
Adjuster



A396510

Powershift Gearbox Flow Test Adaptor

1

460/15708

Flow Test Adaptor

2

460/15707

Banjo Bolt

3

2401/0222

O-ring

4

2403/0110

O-ring

5

2403/0108

O-ring

6

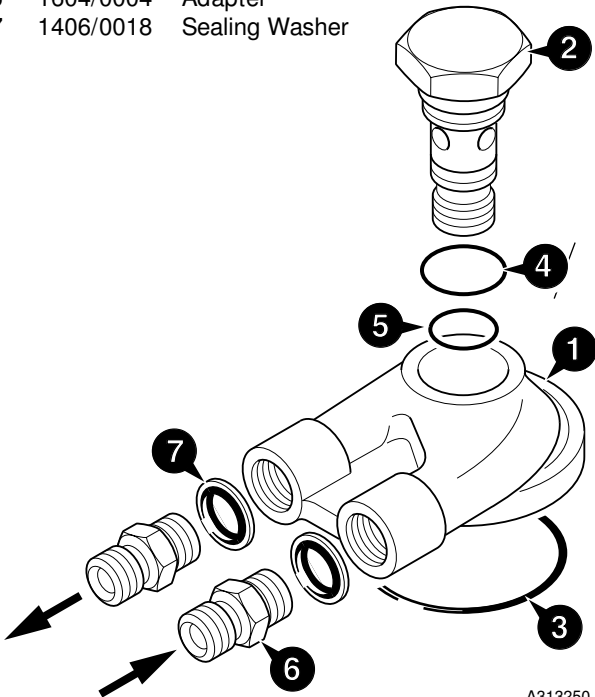
1604/0004

Adapter

7

1406/0018

Sealing Washer

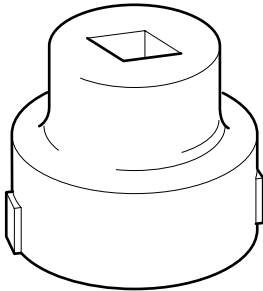


A313250

Synchro Shuttle Gearbox - Setting ring socket
spanners

892/01079

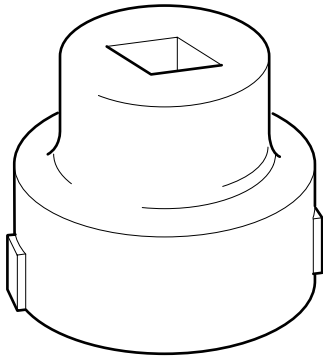
(Mainshaft setting ring)



A396590

892/01080

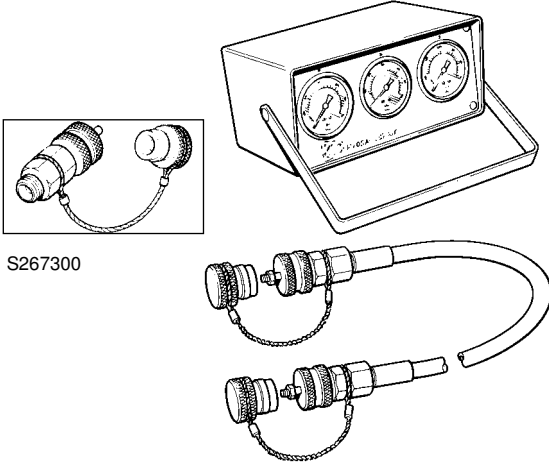
(Layshaft setting ring)



A396600

Service Tools (cont'd)

Section F - Transmission



S267300

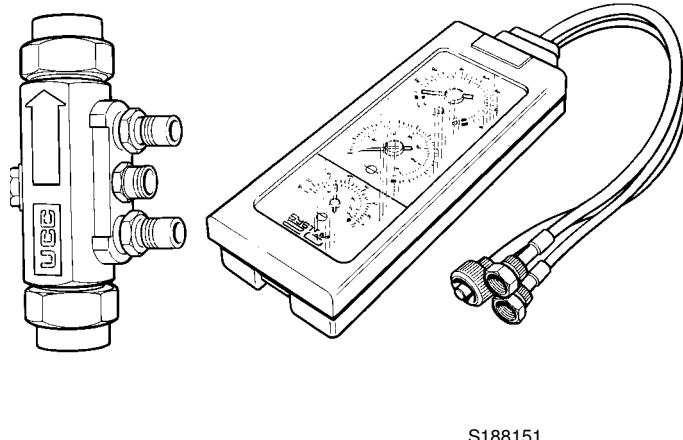
Hydraulic Circuit Pressure Test Kit (also used for main hydraulic system tests)

892/00253	Pressure Test Kit
:892/00201	Replacement Gauge 0-20 bar (0-300 lbf/in ²)
:892/00202	Replacement Gauge 0-40 bar (0-600 lbf/in ²)
:892/00203	Replacement Gauge 0-400 bar (0-6000 lbf/in ²)
:892/00254	Replacement Hose
993/69800	Seal Kit for 892/00254 (can also be used with probe 892/00706)
892/00706	Test Probe

S188121

Flow Test Equipment (also used for main hydraulic system tests)

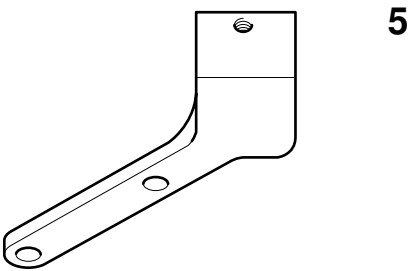
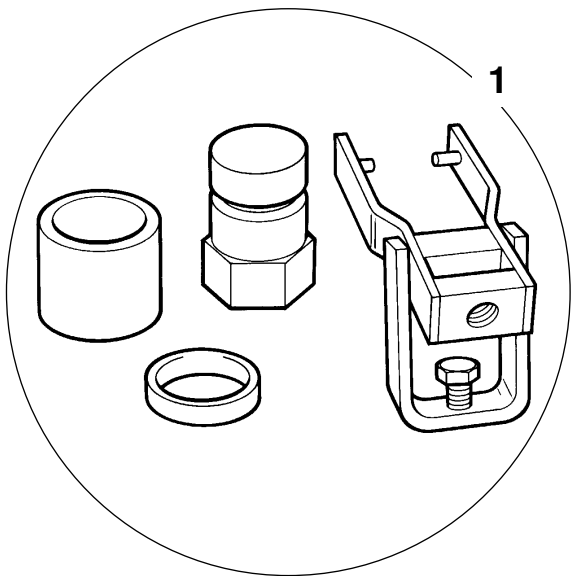
892/00268	Flow Monitoring Unit
892/00269	Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)
892/00293	Connector Pipe
892/00270	Load Valve
1406/0021	Bonded Washer
1604/0006	Adapter 3/4 in M x 3/4 in M BSP
1612/0006	Adapter 3/4 in F x 3/4 in M BSP
892/00271	Adapter 3/4 in F x 5/8 in M BSP
892/00272	Adapter 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 l/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



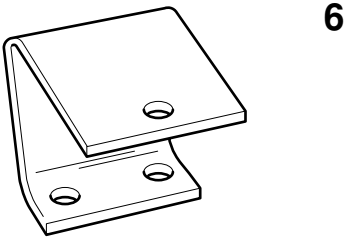
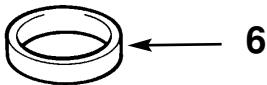
S188151

Service Tools (cont'd)

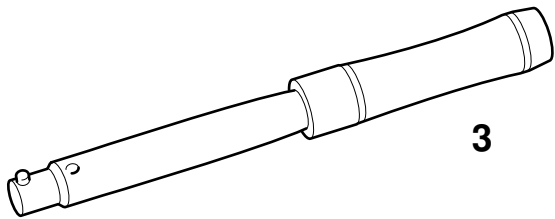
Section F - Transmission



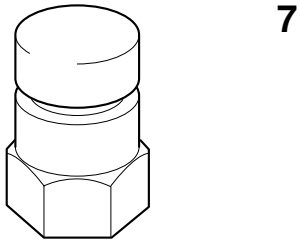
A396960



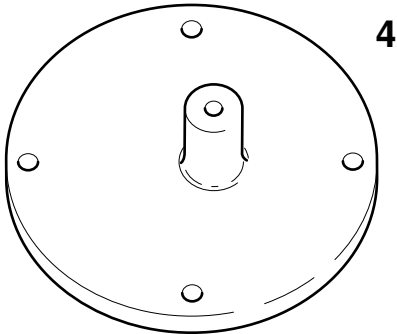
A396930



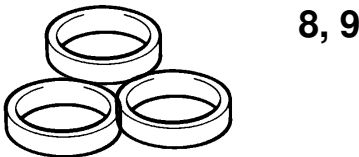
A396950



A396940



A396580



Service Tools (cont'd)

Section F - Transmission

Solid Spacer Setting Kit

Synchro Shuttle Gearbox, SD70, SD80 Axles

1	892/00918	Setting Tool Kit
2	921/52627	Spacer 14.20 Service use
3	993/70111	Breakback Torque Wrench
4	892/01076	Support Bracket - Synchro Shuttle Gearbox
5	892/01075	Support Bracket PD70, SD80 Rear Axles
6	997/11000	Support Bracket SD55, SD70 Front Axles
7	998/10567	SD80 Pinion Shaft Adaptor
8	921/53300	Spacer Kit - SD55 Axles

Comprises of:

	Spacer thickness mm
921/53322	13.550
921/53323	13.575
921/53324	13.600
921/53325	13.625
921/53301	13.650
921/53302	13.675
921/53303	13.700
921/53304	13.725
921/53305	13.750
921/53306	13.775
921/53307	13.800
921/53308	13.825
921/53309	13.850
921/53310	13.875
921/53311	13.900
921/53312	13.925
921/53313	13.950
921/53314	13.975
921/53315	14.000
921/53316	14.025
921/53317	14.050
921/53318	14.075
921/53319	14.100
921/53320	14.125
921/53321	14.150

9 921/53400

Spacer Kit - Synchro Shuttle Gearbox,
SD70, SD80 Axles

Comprises of:

	Spacer thickness mm
921/52628	12.600
829/30405	12.625
921/52629	12.650
829/30406	12.675
921/52630	12.700
829/30407	12.725
921/52601	12.750
829/30408	12.775
921/52602	12.800
829/30409	12.825
921/52603	12.850
829/30410	12.875
921/52604	12.900
829/30411	12.925
921/52605	12.950
829/30412	12.975
921/52606	13.000
829/30413	13.025
921/52607	13.050
829/30414	13.075
921/52608	13.100
829/30415	13.125
921/52609	13.150
829/30416	13.175
921/52610	13.200
829/30417	13.225
921/52611	13.250
921/53424	13.275
921/53425	13.300
921/53426	13.325
921/53427	13.350
921/53428	13.375
921/53401	13.400
921/53402	13.425
921/53403	13.450
921/53404	13.475
921/53405	13.500
921/53406	13.525
921/53407	13.550
921/53408	13.575
921/53409	13.600
921/53410	13.625
921/53411	13.650
921/53412	13.675
921/53413	13.700
921/53414	13.725
921/53415	13.750
921/53416	13.775
921/53417	13.800
921/53418	13.825
921/53419	13.850
921/53420	13.875
921/53421	13.900
921/53422	13.925
921/53423	13.950
921/52626	14.000

Note: After using a spacer, obtain a replacement to keep the set complete.

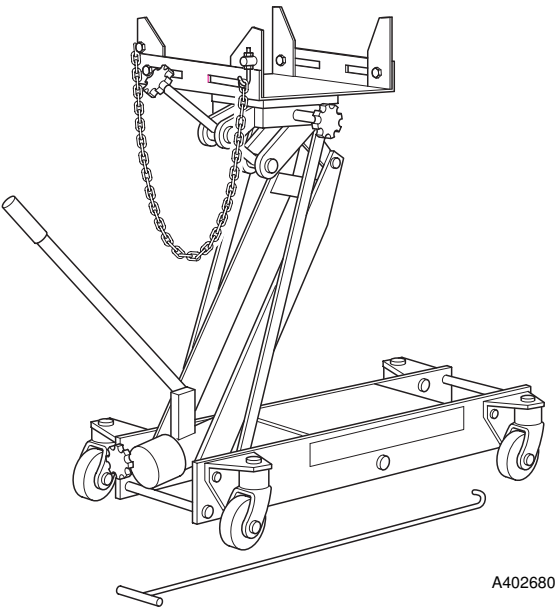
Service Tools (cont'd)

Section F - Transmission

- 892/01083 Powershift - Assembly tool, transfer gear.
- 892/01084 Powershift - Transfer gear, bearing assembly.
- 892/01085 Powershift - Seal fitting tool

892/01094 Transmission Jack

When removing the Powershift gearbox use of a special transmission jack is strongly recommended. This jack can also be used when removing Synchro Shuttle gearboxes.
Note that the jack must be used with special support plates, see below.

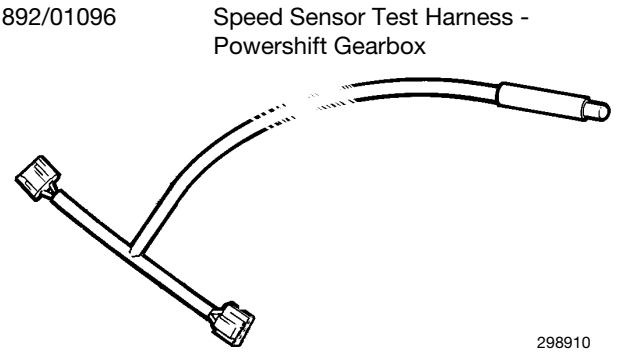


* Powershift - Support plates, for use with transmission jack, Manufacture locally, for details see **Section F, Service Tools.**

892/01082 - Powershift - Assembly Cradle, for details see **Section F, Service Tools.**

* Powershift - Gearbox hydraulic pump removal tools, allow pump to be removed with torque converter housing fitted to gearbox. Manufacture locally, for details see **Section F, Service Tools.**

823/10420	Thrust Washer Kit - Powershift gearbox - Layshaft clutch
Comprises of:	
	Washer thickness mm
823/10421	4.3
823/10422	4.4
823/10423	4.5
823/10424	4.6
823/10425	4.7
823/10426	4.8



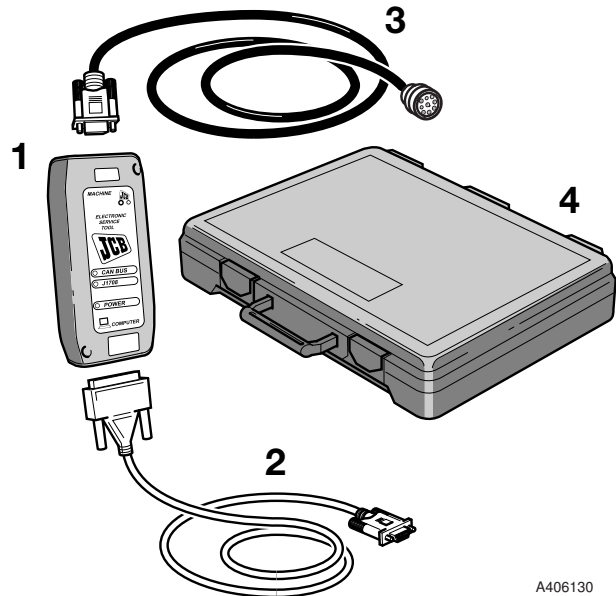
Service Tools (cont'd)

Section F - Transmission

Powershift Gearbox - 6 Speed (ShiftMaster) Electronic Service Tool Kit

892/01033 Kit comprises:

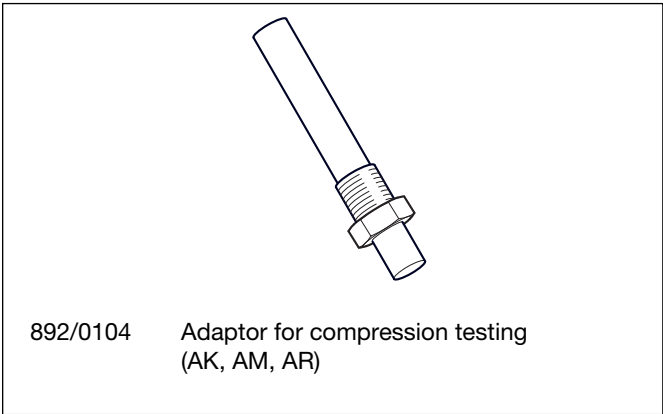
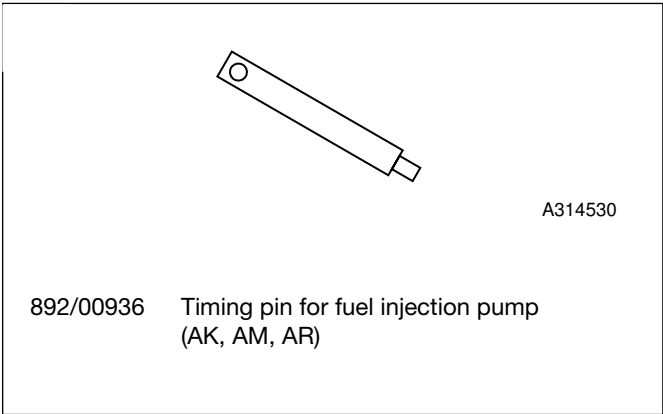
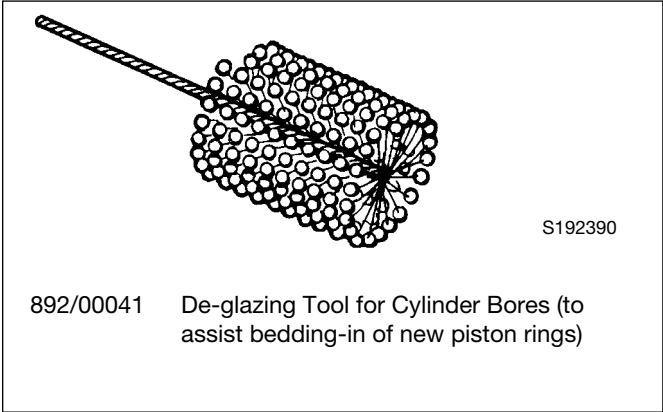
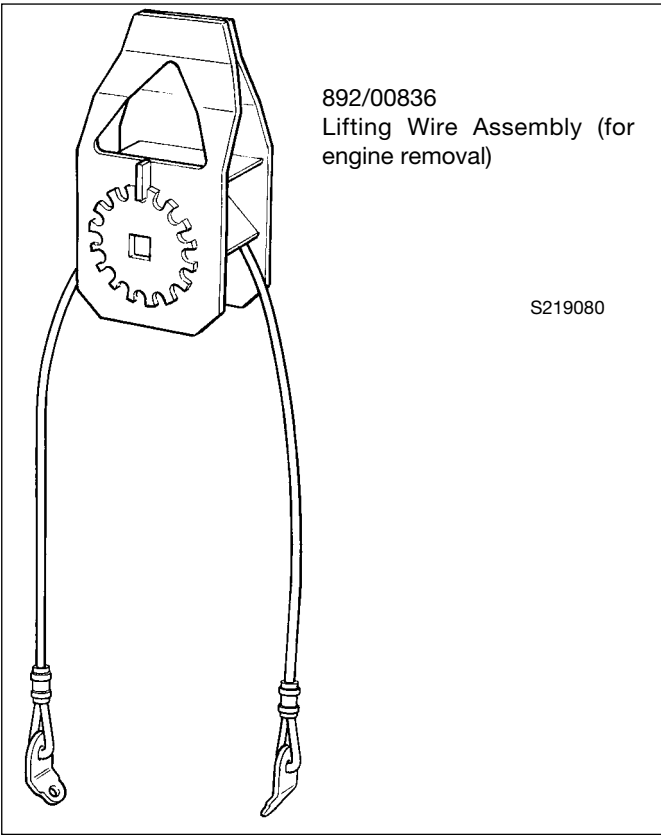
- 1** Data Link Adaptor (DLA), enables data exchange between the machine ECU (Electronic Control Unit) and a laptop PC loaded with the applicable ShiftMaster diagnostics software.
- 2** Interconnecting cable, DLA to laptop PC. Several cables are included to enable compatibility with different PC port types.
- 3** Interconnecting cable, DLA to machine ECU diagnostics socket.
- 4** Kit carrying case.



A406130

Service Tools (cont'd)

Section K - Engine



For details of other engine service tools refer to Engine Service Manual, Publication No. 9806/0100 or 9806/2140 for low emission engines.

Sealing and Retaining Compounds

JCB Multi-Gasket	A medium strength sealant suitable for all sizes of gasket flanges, and for hydraulic fittings of 25-65mm diameter.	4102/1212	50ml
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	50ml
JCB Retainer (High Strength)	For all retaining parts which are unlikely to be dismantled.	4101/0651	50ml
JCB Threadlocker and Sealer	A high strength locking fluid for sealing and retaining nuts, bolts, and screws up to 50mm diameter, and for hydraulic fittings up to 25mm diameter.	4101/0250 4101/0251	10ml 50ml
Threadseal	A medium strength thread sealing compound.	4102/1951	50ml
Threadlocker	A locking fluid for use on threads larger than 50mm dia.	4101/0451	50ml
Activator	A cleaning primer which speeds the curing rate of anaerobic products.	4104/0251 4104/0253	(1ltr) Bottle (200ml)
Cleaner / Degreaser	For degreasing components prior to use of anaerobic adhesives and sealants.	4104/1557	400ml
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	4104/1206 4104/1203	30 ml 250 g
† Black Primer 206J	For direct glazing	4201/4906	30 ml
Clear Silicone Sealant	To seal butt jointed glass	4102/0933	
Black Polyurethane Sealant	To finish exposed edges of laminated glass	4102/2309	310 ml
JCB Cleaner & Degreaser	For degreasing components prior to use of anaerobic adhesives and sealants.	4104/1538	Aerosol