



Service Manual

Teletruk

From M/c No. 788001

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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

Product: JCB Teletruk From M/c No.788001 Skid Steer Loader Service Repair Manual
Full Download: <https://www.arepairmanual.com/downloads/jcb-teletruk-from-mc-no-788001-skid-steer-loader-service-repair-manual/>

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Sample of manual. Download All 609 pages at:
<https://www.arepairmanual.com/downloads/jcb-teletruk-from-mc-no-788001-skid-steer-loader-service-repair-manual/>

Introduction

General

This Service Manual is designed for the benefit of JCB Distributor Service Engineers who are receiving or have received, training by JCB Technical Training Department.

These personnel have a sound knowledge of safe workshop practices, safety procedures, and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment.

The replacement of oil seals, gaskets and any other components showing obvious signs of wear or damage is expected as a matter of course. Components should be cleaned and lubricated where appropriate, and any open hose or pipe connection must be blanked off to prevent the loss of hydraulic fluid or allow an ingress of dirt. Finally, please remember **SAFETY COMES FIRST!**

Service Manual Layout

This Service manual is compiled in sections, the first three are numbered and contain information as follows:

- 1** **General Information**
- 2** **Care and Safety**
- 3** **Routine maintenance**

The remaining sections are alphabetically coded and deal with the overhaul and inspection of specific components, for example:

- A** **Attachments**
- B** **Body and Frameworketc.**

The page numbering in each alphabetically coded section is not continuous. This allows for the insertion of new information in later issues of this Service Manual.

Section contents, technical data, circuit descriptions, operation descriptions etc are inserted, where necessary, at the beginning of each alphabetically coded section.

Read the section contents to locate machine types, machine type identification is not listed on individual pages.

All sections are listed on the front cover; tabbed divider cards align directly with each individual section for quick 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. Torque figures for lubricated threads can be reduced by one third.

"Left Hand" and "Right Hand" are as viewed from the rear of the machine facing forwards.

This Service Manual covers the following machine type:

Teletruk

Product Identification Number (PIN) 0788001

Contents	Page No.
Identification	
- Vehicle Identification Number	1 - 1
- Unit Identification	1 - 1
* - Typical Engine Identification Number	1 - 1
Torque Settings	
* - Introduction - Zinc Plated Fasteners and Dacromet Fasteners	2 - 1
* - Metric Grade 8.8 Bolts	2 - 1
* - UNF Grade "S" Bolts	2 - 1
* - Hydraulic Fittings & Torque Settings	2 - 2
* - 'O' Ring Face Seal System	2 - 2
* - Torque Stop Hose System	2 - 3
Service Tools	
- Numerical List	3 - 1
- Body and Framework	3 - 2
- Electrics	3 - 5
- Hydraulics	3 - 6
Sealing and Retaining Compounds	4 - 1

Vehicle Identification Number (VIN)

The Product Identification Number (PIN), transmission pump serial number and engine serial number positively identify the type of Teletruk that you have. These numbers are stamped on the machine VIN plate as shown in the following Figure.

A typical VIN is a 17 digit number as follows:

SLP TLT25 V E 0788001

SLP Manufacturer (JCB)
TLT25 Machine Model (Teletruk)
V Year (1997)
E Country (England)
0788001 (PIN)

Unit Identification

To confirm the identity of your machine, check the VIN plate details against the serial numbers of each component.

Typical Engine Identification Number

This applies to the diesel engines only.

HR 51245 U
A B C

- A** Engine Type
 KR = 4 cylinder naturally aspirated - up to machine serial number 892816.
 HP = 4 cylinder naturally aspirated - low emission stage 2 - from machine serial number 892817.
 HR = 4 cylinder turbo - low emission stage 2 - 3.5 machines only.

Where the service procedure differ between the engine types, the text and or the illustration will specify.

- B** Build Number
- C** Country of Origin



JCB		J.C.BAMFORD EXCAVATORS LTD. ROCESTER, STAFFS, ENGLAND.			
CONSTRUCTOR			MADE IN UK		
Vehicle Identification No.			Product Identification No.		
ENGINE SERIAL No.			WEIGHT		
PUMP SERIAL No.			YEAR OF MANUFACTURE		
MODEL	80/1269/EEC		MODEL	80/1269/EEC	
	POWER KW	R.P.M.		POWER KW	R.P.M.

817/16599

* Introduction - Zinc Plated Fasteners and Dacromet Fasteners

JCB Teletruk's are assembled using an improved type of corrosion resistant finish. This type of finish is called Dacromet and replaces the original Zinc and Yellow plating used on earlier machines.

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

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

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.

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

Bolt size Diameter mm	Hexagon (A/F) mm	Zinc Plated Fasteners Torque Settings			Dacromet Fasteners Torque Settings		
		Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
M6 x 1.0	10	12	1.2	9	9	0.9	7
M8 x 1.25	13	28	3.0	21	22.5	2.3	17
M10 x 1.5	17	56	5.7	42	47.5	4.8	35
M12 x 1.75	19	98	10	72	80	8.2	59
M14 x 2	22				133	13.6	98
M16 x 2	24	244	25	180	200	20.4	148
M18 x 2.5	27	350	36	258	278	28.4	205
M20 x 2.5	30	476	48	352	392	40	289
M24 x 3	36	822	84	607	675	69	498
M30 x 3.5	46	1633	166	1205	1348	138	994

UNF Grade 'S' Bolts

Bolt Size in	Hexagon (A/F) in	Nm	Torque Settings	
			(mm)	lbf ft
1/4	7/16	14	1.4	10
5/16	1/2	28	2.8	20
3/8	9/16	49	5.0	36
7/16	5/8	78	8.0	58
1/2	3/4	117	12.0	87
9/16	13/16	170	17.3	125
5/8	15/16	238	24.3	175
3/4	1 1/8	407	41.5	300
7/8	1 5/16	650	66.3	480
1	1 1/2	970	99.0	715
1 1/4	1 7/8	1940	198.0	1430
1 1/2	2 1/4	3390	345.0	2500

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

'O' Ring Face Seal System

Adaptors screwed into valve blocks

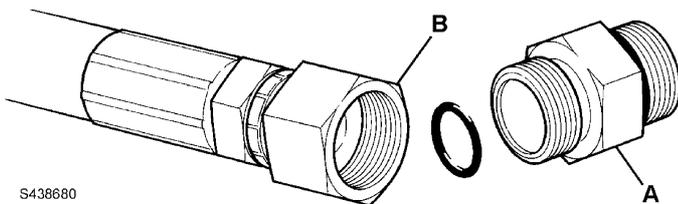
Adaptors screwed into valve blocks, etc. seal onto an 'O' ring which is compressed into a 45° seat machined in the face of the tapped port.

Adaptor Size	Common Spanner Size (A/F)		Tightening Torque	
	mm	in.	Nm	lbf ft
1/4" BSP	19	0.75	18	13
3/8" BSP	22	0.875	31	23
1/2" BSP	27	1	49	36
5/8" BSP	30		60	44
3/4" BSP	32	1.25	81	60
1" BSP	38	1.5	129	95
1 1/4" BSP			206	152

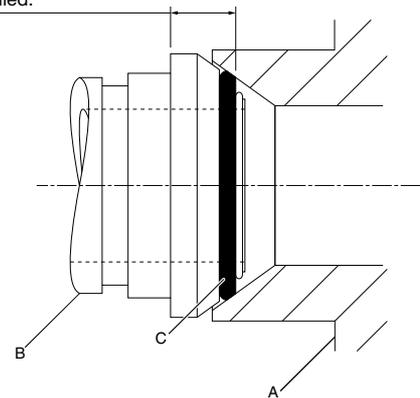
SAE Tube Size	SAE Port Thread Size	Common Spanner Size (A/F)		Tightening Torque	
		mm	in.	Nm	lbf ft
4	7/16 - 20	15.9	0.625	20 - 28	16.5 - 18.5
6	9/16 - 18	19.1	0.750	46 - 54	34 - 40
8	3/4 - 16	22.2	0.875	95 - 105	69 - 77
10	7/8 - 14	27.0	1.063	130 - 140	96 - 104
12	1.1/16 - 12	31.8	1.250	190 - 210	141 - 155
16	1.5/16 - 12	38.1	1.500	290 - 310	216 - 230
20	1.5/8 - 12	47.6	1.875	280 - 380	210 - 280

Hoses Screwed onto Adaptors

Hoses **B** screwed onto adaptors **A** etc. seal onto an 'O' ring **C** which is compressed into a 45° seat machined in the face of the adaptor port.



Dimension will vary depending on torque applied.

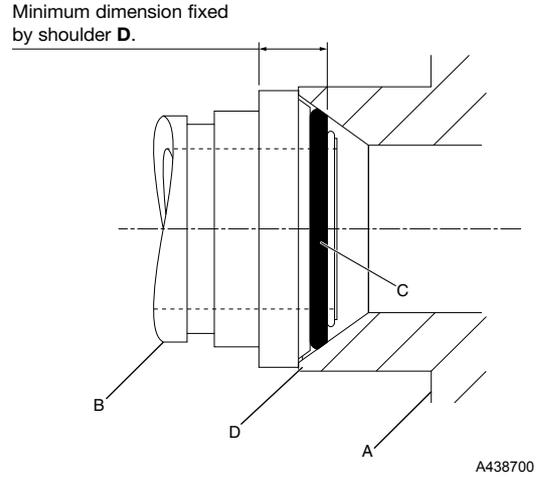
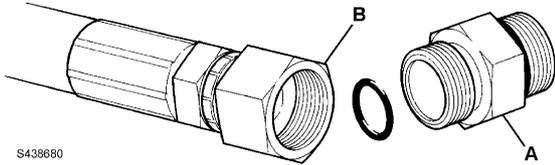


A438690

Hose Size	Common Spanner Size (A/F)		Tightening Torque	
	mm	in.	Nm	lbf ft
1/8" BSP	14		14	10
1/4" BSP	19	0.75	24	18
3/8" BSP	22	0.875	33	24
1/2" BSP	27	1	44	33
5/8" BSP	30		58	43
3/4" BSP	32	1.25	84	62
1" BSP	38	1.5	115	85
1 1/4" BSP			189	140
1 1/2" BSP			244	180

Torque Stop Hose System

'Torque Stop' Hoses **B** screwed onto adaptors **A** etc. seal onto an 'O' ring **C** which is compressed into a 45° seat machined in the face of the adaptor port. To prevent the 'O' ring being damaged as a result of over tightening, 'Torque Stop' Hoses have an additional shoulder, which acts as a physical stop.



Hose Size	Common Spanner Size (A/F)		Tightening Torque	
	mm	in.	Nm	lbf ft
1/8" BSP	14		14	10
1/4" BSP	19	0.75	27	20
3/8" BSP	22	0.875	40	30
1/2" BSP	27	1	55	40
5/8" BSP	30		65	48
3/4" BSP	32	1.25	95	70
1" BSP	38	1.5	120	89
1 1/4" BSP			189	140
1 1/2" BSP			244	180

Numerical List

		Page No.		Page No.	
1406/0011	Bonded Washer	3 - 7	892/00260	Pressure Test Adapter	3 - 6
1406/0018	Bonded Washer	3 - 7	892/00261	Pressure Test Adapter	3 - 6
1406/0021	Bonded Washer	3 - 6/3 - 7	892/00262	Pressure Test 'T' Adapter	3 - 6/3 - 7
1406/0029	Bonded Washer	3 - 7	892/00263	Pressure Test 'T' Adapter	3 - 6
1604/0003	Adapter	3 - 7	892/00264	Pressure Test 'T' Adapter	3 - 6
1604/0004	Adapter	3 - 7	892/00265	Pressure Test 'T' Adapter	3 - 6
1604/0006	Adapter	3 - 6/3 - 7	892/00268	Flow Monitoring Unit	3 - 6
1606/0003	Adapter	3 - 7	892/00269	Sensor Head	3 - 6
1606/0004	Adapter	3 - 7	892/00270	Load Valve	3 - 6
1606/0007	Adapter	3 - 7	892/00271	Adapter	3 - 6
1606/0008	Adapter	3 - 7	892/00272	Adapter	3 - 6
1606/0009	Adapter	3 - 7	892/00274	Adapter	3 - 7
1612/0006	Adapter	3 - 6	892/00275	Adapter	3 - 6
4101/0251	JCB Threadlocker and sealer	4 - 1	892/00276	Adapter	3 - 6
4101/0451	JCB Threadlocker	4 - 1	892/00277	Adapter	3 - 6
4101/0552	JCB Threadlocker and Sealer (HS)	4 - 1	892/00278	Gauge	3 - 7
4101/0651	JCB Retainer (High Strength)	4 - 1	892/00279	Gauge	3 - 7
4102/0551	JCB High Strength Threadlocker	4 - 1	892/00281	AVO Meter	3 - 5
4102/1201	JCB Multi-Gasket	4 - 1	892/00282	Shunt	3 - 5
4104/0251	JCB Activator (Aerosol)	4 - 1	892/00283	Tool Kit Case	3 - 5
4104/0253	JCB Activator (Bottle)	4 - 1	892/00284	Tachometer	3 - 5
4104/1310	Hand Cleaner	3 - 2	892/00285	Hydraulic Oil Temperature Probe	3 - 5
* 331/27987	Flank Drive Socket	3 - 5	892/00286	Surface Temperature Probe	3 - 5
* 721/11069	Speed Sensor Test Lead	3 - 5	892/00706	Test Probe	3 - 7
816/00189	Blanking Cap	3 - 8	892/00842	Glass Lifter	3 - 3
816/00190	Blanking Cap	3 - 8	892/00843	Folding Stand for Holding Glass	3 - 2
816/00193	Blanking Cap	3 - 8	892/00844	Long Knife	3 - 4
816/00196	Blanking Cap	3 - 8	892//00845	Cartridge Gun	3 - 2
816/00197	Blanking Cap	3 - 8	892/00846	Glass Extractor (Handles)	3 - 3
816/00294	Blanking Cap	3 - 8	892/00847	Nylon Spatula	3 - 4
816/15118	Pressure Test Adapter	3 - 6	892/00848	Wire Starter	3 - 3
816/20008	Adapter	3 - 6	892/00849	Braided Cutting Wire	3 - 4
816/50043	'T' Adapter	3 - 8	892/00923	A.R.V Test Block - Commercial Hyd.	3 - 7
816/55038	Pressure Test 'T' Adapter	3 - 6	* 892/00924	Psion Walkabout	3 - 5
816/55040	Pressure Test 'T' Adapter	3 - 6	926/15500	Rubber Spacer Blocks	3 - 4
816/60096	'T' Adapter	3 - 8	992/09300	Spanner	3 - 7
826/01099	M6 x 16mm Rivet Nut	3 - 2	992/09400	Spanner	3 - 7
826/01101	M6 x 19mm Rivet Nut	3 - 2	992/09500	Spanner	3 - 7
826/01102	M8 x 21mm Rivet Nut	3 - 2	992/09600	Spanner	3 - 7
826/01103	M8 x 18mm Rivet Nut	3 - 2	992/12300	12V Mobile Oven	3 - 2
826/01104	M10 x 23mm Rivet Nut	3 - 2	992/12400	240V Static Oven -2 Cartridge	3 - 3
826/01105	M10 x 26mm Rivet Nut	3 - 2	992/12600	240V Static Oven -6 Cartridge	3 - 3
892/00047	'T' Adapter	3 - 8	992/12800	Cut-Out Knife	3 - 3
892/00048	'T' Adapter	3 - 8	992/12801	'L' Blades	3 - 3
892/00055	Blanking Plug	3 - 8	993/68100	Slide Hammer Kit	3 - 4
892/00056	Blanking Plug	3 - 8	993/85700	Battery tester	3 - 5
892/00057	Blanking Plug	3 - 8			
892/00059	Blanking Plug	3 - 8			
892/00060	Blanking Plug	3 - 8			
892/00074	Female Connector	3 - 8			
892/00075	Female Connector	3 - 8			
892/00077	Female Connector	3 - 8			
892/00137	Hose	3 - 7			
892/00223	Hand Pump	3 - 7			
892/00252	A.R.V Test Block - Husco	3 - 7			
892/00253	Pressure Test Kit	3 - 6			
892/00255	Pressure Test Adapter	3 - 6			
892/00256	Pressure Test Adapter	3 - 6			
892/00257	Pressure Test Adapter	3 - 6			
892/00258	Pressure Test Adapter	3 - 6			
892/00259	Pressure Test Adapter	3 - 6			

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

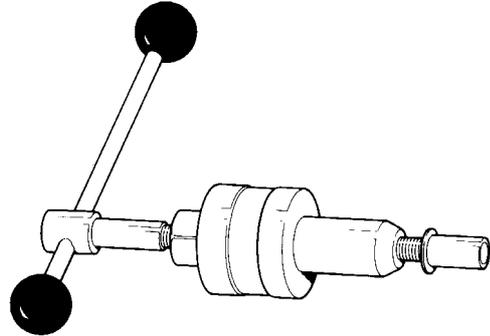
Replacement items for kit no. 892/00253

892/00201	Replacement Gauge	3 - 6
892/00202	Replacement Gauge	3 - 6
892/00203	Replacement Gauge	3 - 6
892/00254	Replacement Hose	3 - 6

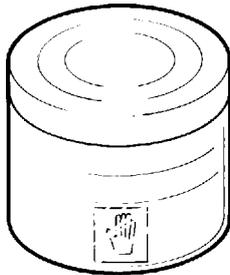
Section B - Body & Framework

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



S1261210



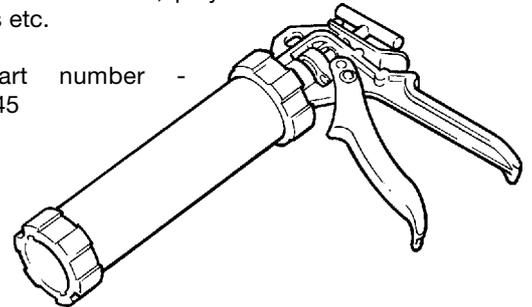
Hand Cleaner - special blend for the removal of polyurethane adhesives.

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

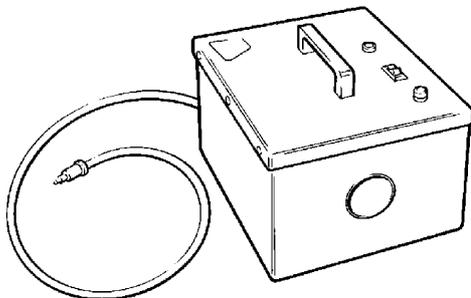
S186240

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

JCB part number -
 892/00845



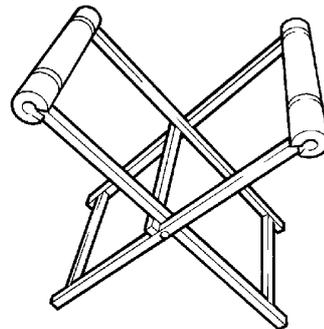
S186270



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.

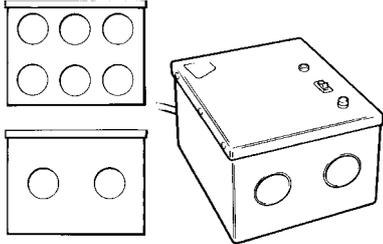
JCB part number -
 892/00843

S186280

Section B - Body & Framework (cont'd)

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.

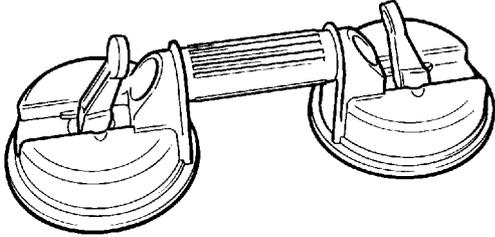
JCB part number:
 992/12400 - 2 Cartridge x 240V
 992/12600 - 6 Cartridge x 240V



S186260

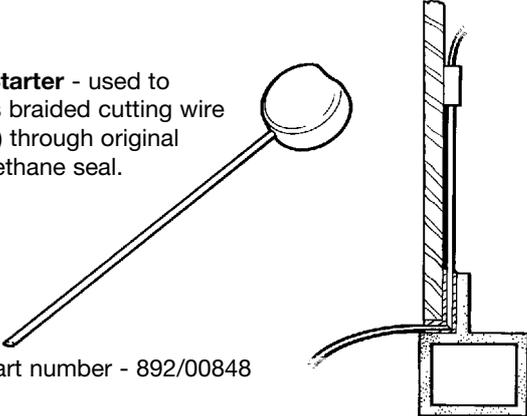
Glass Lifter - minimum 2 off - essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

JCB part number - 892/00842



S186300

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

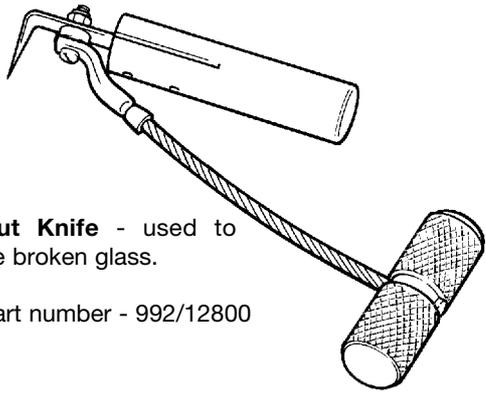


JCB part number - 892/00848

S186310

Cut-Out Knife - used to remove broken glass.

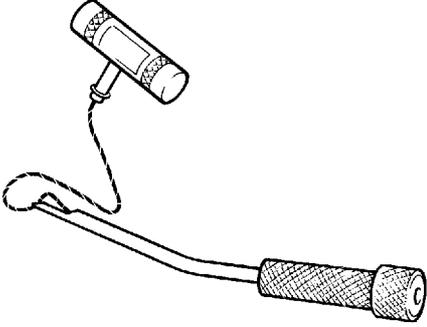
JCB part number - 992/12800



S186340

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

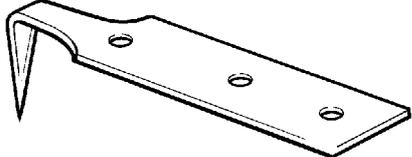
JCB part number - 892/00846



S186320

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

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

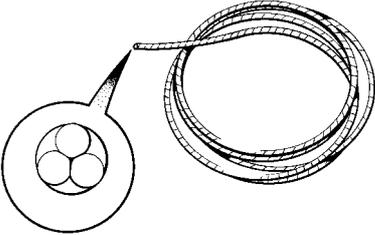


S186350

Section B - Body & Framework (cont'd)

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

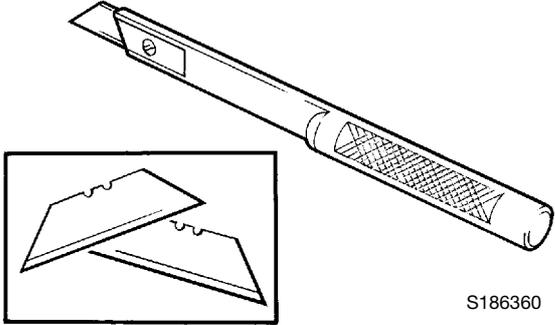
JCB part number - 892/00849
(approx 25 m length)



S186330

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

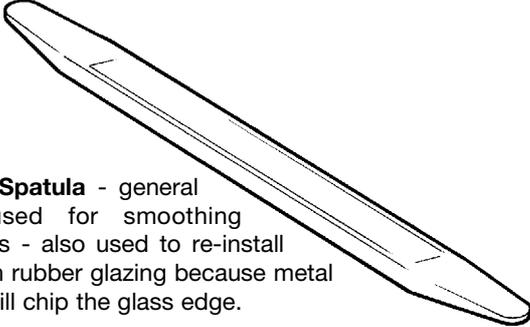
JCB part number - 892/00844



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.

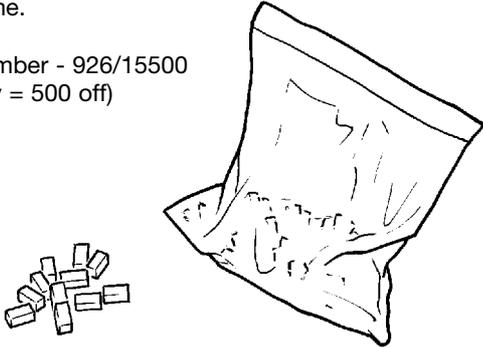
JCB part number - 892/00847



* S186470-V1

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

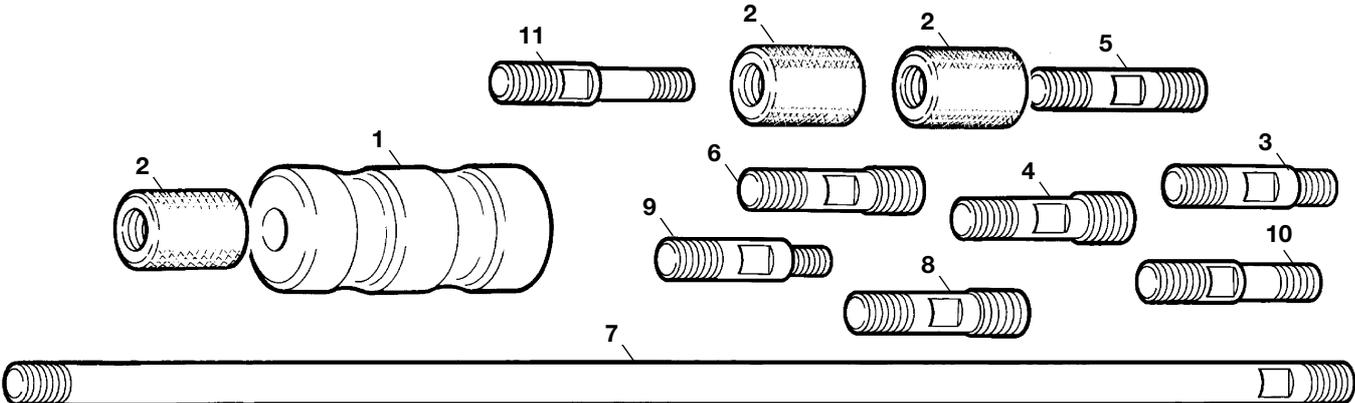
JCB part number - 926/15500
(unit quantity = 500 off)



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 M16
		11 :993/68111	Adaptor - M20 x 1/2" UNF



S196910

Section C - Electrics

AVO Test Kit

1	892/00283	Tool Kit Case
2	892/00281	AVO Meter
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

* S188231

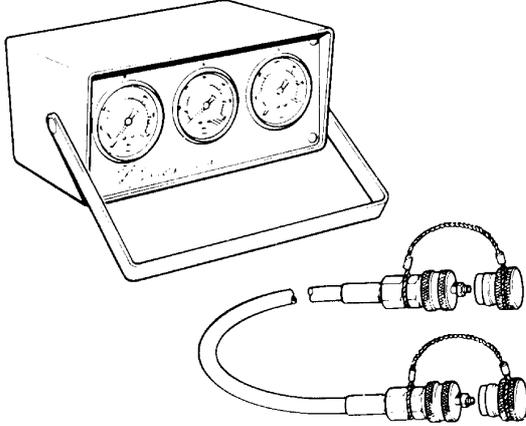
993/85700 Battery Tester 239510

331/27987 Flank Drive Socket A437530

1	892/00924	Psion Walkabout
2	892/00931	Psion Service Software Lead

721/11069 Speed Sensor Test Lead A437560

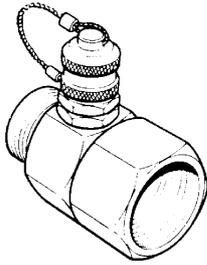
Section E - Hydraulics



188120

Hydraulic Circuit Pressure Test Kit

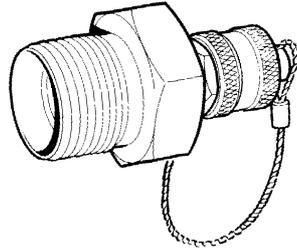
892/00253	Pressure Test Kit
892/00201	Replacement Gauge 0-20 bar (0-300 lbf/in ²)
892/00202	Replacement Gauge 0-40 bar (0-600 lbf/in ²)
892/00203	Replacement Gauge 0-400 bar (0-400 lbf/in ²)
892/00254	Replacement Hose



188130

Pressure Test 'T' Adapters

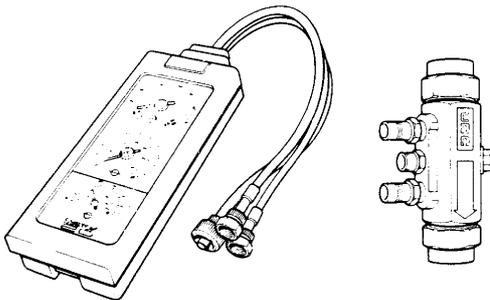
892/00262	1/4 in M BSP x 1/4 in F BSP x Test Point
816/55038	3/8 in M BSP x 3/8 in F BSP x Test Point
816/55040	1/2 in M BSP x 1/2 in F BSP x Test Point
892/00263	5/8 in M BSP x 5/8 in F BSP x Test Point
892/00264	3/4 in M BSP x 3/4 in F BSP x Test Point
892/00265	1 in M BSP x 1 in F BSPP x Test Point



200140

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

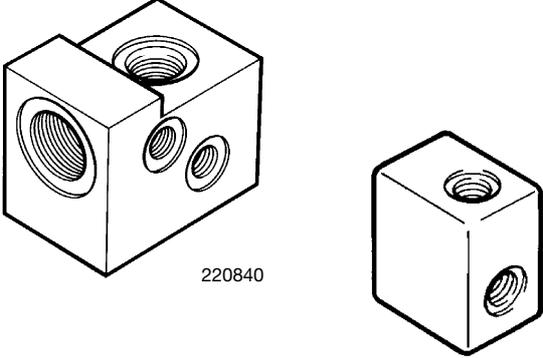


188150

Flow Test Equipment

892/00268	Flow Monitoring Unit
892/00269	Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)
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

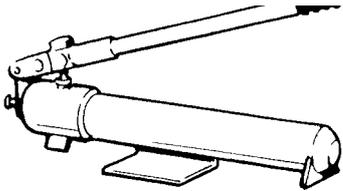
Section E - Hydraulics



220840

S270650

892/00252 Test Block for A. R. V. - Husco valves
 892/00923 Test Block for A. R. V.
 - Commercial Hydraulic valves



193850

Hand Pump Equipment

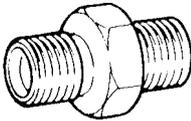
892/00223 Hand Pump
 892/00137 Micro-bore Hose 1/4 in BSP x 5 metres
 892/00274 Adapter 1/4 in M BSP x 3/8 in M BSP Taper
 892/00262 1/4 in M BSP x 1/4 in F BSP x Test Point
 892/00706 Test Probe
 892/00278 Gauge 0 - 40 bar (0 - 600 lbf/in²)
 892/00279 Gauge 0 - 400 bar (0 - 6000 lbf/in²)



188140

Bonded Washers

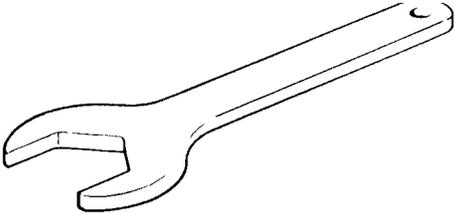
1406/0011 1/4 in BSP
 1406/0018 1/2 in BSP
 1406/0021 3/4 in BSP
 1406/0029 1.1/4 in BSP



193860

Male Adapters - BSP x BSP

1606/0003 3/8 in x 1/4 in
 1604/0003 3/8 in x 3/8 in
 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
 1606/0008 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

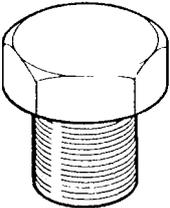


193930

Hexagon Spanners for Ram Pistons and End Caps

992/09300 55 mm A/F
 992/09400 65 mm A/F
 992/09500 75 mm A/F
 992/09600 85 mm A/F

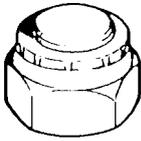
Section E - Hydraulics



193870

Female Cone Blanking Plug

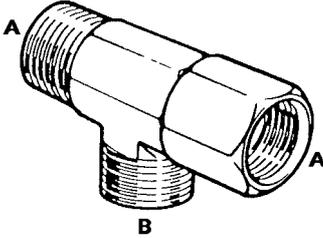
892/00055	1/4 in BSP
892/00056	3/8 in BSP
892/00057	1/2 in BSP
892/00059	3/4 in BSP
892/00060	1 in BSP 'T'



193880

Male Cone Blanking Plug

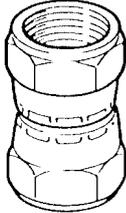
816/00294	1/4 in BSP
816/00189	3/8 in BSP
816/00190	1/2 in BSP
816/00197	5/8 in BSP
816/00196	3/4 in BSP
816/00193	1 in BSP



193890

'T' Adapters

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)
816/50043	3/4 in BSP (A) x 1/4 in BSP (B)
816/60096	3/4 in BSP (A) x 3/4 in BSP (B)



193900

Female Connectors

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

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. (200ml)	4104/0251 4104/0253	(1ltr) Bottle
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

Contents	Page No.
Safety Notices	1 - 1
General	2 - 1
General Safety	3 - 1
Operating Safety	4 - 1
Maintenance Safety	5 - 1

In this manual and on the machine there are safety notices. Each notice starts with a signal word. The meanings of the signal words are given below.

 **DANGER**

Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

 **WARNING**

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

 **CAUTION**

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

 **WARNING**

Study this Service Manual before carrying out any maintenance work on the machine. You must always understand and observe the relevant laws and regulations. If you are unsure about anything, ask your JCB Distributor.

Introduction

This section of the Manual is intended to REMIND the operator of basic safety requirements when operating industrial machinery. It is not a complete list of hazards that may exist when operating or maintaining the Teletruk.

SPECIFIC HAZARDS RELATING TO MAINTENANCE INSTRUCTIONS ARE DETAILED IN THE RELEVANT SECTIONS OF THIS MANUAL.

Safety First - Yours And Other People's

All industrial equipment can be hazardous. When a machine is properly maintained, it is a safe machine to work with. But when it is poorly maintained it can become a danger to you (the operator) and others.

In this Manual and on the machine you will find warning messages. Read and understand them. They tell you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your supervisor or JCB Distributor to explain them.

But safety is not just a matter of responding to the warnings. All the time you are working on or with the machine you must be thinking what hazards there might be and how to avoid them.

Do not work with the machine until you are sure you can control it. Do not start any job until you are sure that you and those around you will be safe. If you are unsure of anything, about the machine or the job, ask someone who knows. Do not assume anything.

**Remember
BE CAREFUL
BE ALERT
BE SAFE**

INT-1-3-1/1

⚠ WARNING

Manual. You and others can be injured if you maintain the machine without first studying this Manual. Read the safety instructions before maintaining the machine. If you do not understand anything, ask your supervisor or JCB Distributor to explain it. Keep this Manual clean and in good condition.

GEN 10-1

⚠ WARNING

Clothing. You can be injured if you do not wear the proper clothing. Loose clothing can get caught in the machinery. Wear protective clothing to suit the job. Examples of protective clothing are: a hard hat, safety shoes, safety glasses, a well fitting overall, ear protectors and industrial gloves. Keep cuffs fastened. Do not wear a necktie or scarf. Keep long hair restrained.

INT-1-3-6

⚠ WARNING

Care and Alertness. All the time you are working with or on the machine, take care and stay alert. Always be careful. Always be alert for hazards.

INT-1-3-5

⚠ WARNING

Fires. If your machine is equipped with a fire extinguisher, make sure it is checked regularly. Keep it in the correct machine location until you need to use it.

Do not use water to put out a machine fire, you could spread an oil fire or get a shock from an electrical fire. Use carbon dioxide, dry chemical or foam extinguishers. Contact your nearest fire department as quickly as possible. Firefighters should use self-contained breathing apparatus.

INT-3-2-7/1

⚠ WARNING

Alcohol and Drugs. It is extremely dangerous to operate machinery when under the influence of alcohol or drugs. Do not consume alcoholic drinks or take drugs before or whilst operating the machine or attachments. Be aware of medicines which can cause drowsiness.

INT-1-3-9

⚠ CAUTION

Regulations. Obey all laws, work site and local regulations which affect you and your machine.

INT-1-3-3

⚠ WARNING

Decals. You can be injured if you do not obey the decal safety instructions. Keep decals clean. Replace unreadable or missing decals with new ones before operating the machine. Make sure replacement parts include warning decals where necessary.

INT-1-3-4

⚠ WARNING

Machine Condition. A defective machine can injure you or others. Do not operate a machine which is defective or has missing parts. Make sure the maintenance procedures in this Manual are completed before using the machine.

INT-2-1-2

⚠ WARNING

Practice. You or others can be killed or seriously injured if you do unfamiliar operations without first practising them. Practice away from the work site on a clear area. Keep other people away. Do not perform new operations until you are sure you can do them safely.

INT-2-1-1

⚠ WARNING

Seat Belts. The operator's enclosure is designed to give you protection in an accident. If you do not wear your seat belt, you could be thrown out of the machine and crushed. You must wear a seat belt when using the machine. Fasten the seat belt before starting the engine.

12-1-1-4

⚠ WARNING

Controls. You or others can be killed or seriously injured if you operate the control levers from outside the cab. Operate the control levers only when you are correctly seated inside the cab.

INT-2-1-3

⚠ WARNING

Visibility. Accidents can be caused by working in poor visibility. Keep windows clean and use your lights to improve visibility. Do not operate the machine if you cannot see properly.

INT-2-1-11

⚠ WARNING

Passengers. Passengers in or on the machine can cause accidents. The Teletruk is a one man machine. Do not carry passengers.

INT-2-2-2

⚠ DANGER

The Teletruk is installed with a Roll Over Protection Structure (ROPS) to ISO 3471 1994, and an Over Head Guard (OHG) to ISO 6055 1979. You could be killed or seriously injured if you operate this machine with a damaged or missing ROPS/OHG. If the ROPS/OHG has been in an accident, do not use the machine until the structure has been renewed. Modifications and repairs that are not approved by the manufacturer may be dangerous and will invalidate the ROPS/OHG certification.

12-5-1-2

⚠ WARNING

Training. Operators and Service Staff should be trained in the Safety Guidelines for the normal use of Telescopic Lift Trucks.

12-1-1-5

⚠ WARNING

Raised Attachments. Raised attachments can fall and injure you. Do not walk or work under raised attachments unless they are safely blocked.

INT-1-3-8

⚠ WARNING

Raised Machine. NEVER position yourself or any part of your body under a raised machine which is not properly supported. If the machine moves unexpectedly you could become trapped and suffer serious injury or be killed.

INT-3-3-7/1

⚠ WARNING

Soft Ground. A machine can sink into soft ground. Never work under a machine on soft ground.

INT-3-2-4

⚠ WARNING

Lifting Equipment. You can be injured if you use faulty lifting equipment. Make sure that lifting equipment is in good condition. Make sure that lifting tackle complies with all local regulations and is suitable for the job. Make sure that lifting equipment is strong enough for the job.

INT-1-3-7

⚠ WARNING

Repairs. Do not try to do repairs or any other type of maintenance work you do not understand. JCB Distributor Engineers have been trained in all aspects of the Teletruk.

12-1-1-1

⚠ WARNING

Modifications and Welding. Non-approved modifications can cause injury and damage. Parts of the machine are made from cast iron; welds on cast iron can weaken the structure and break. Do not weld cast iron. Contact your JCB Distributor for advice before modifying the machine.

INT-3-1-2/1

⚠ WARNING

Hydraulic Fluid. Fine jets of hydraulic fluid at high pressure can penetrate the skin. Do not use your fingers to check for hydraulic fluid leaks. Do not put your face close to suspected leaks. Hold a piece of cardboard close to suspected leaks and then inspect the cardboard for signs of hydraulic fluid. If hydraulic fluid penetrates your skin, get medical help immediately.

INT-3-1-10/1

⚠ WARNING

Hydraulic Pressure. Hydraulic fluid at pressure can injure you. Make the machine safe before connecting or disconnecting couplings; lower the payload to the ground, stop the engine then operate the hydraulic controls a few times to vent residual hydraulic pressure from the system.

12-1-1-2

⚠ WARNING

Hydraulic Hoses. Damaged hoses can cause fatal accidents. Inspect the hoses regularly for:

- Damaged end fittings
- Chafed outer covers
- Ballooned outer covers

Kinked or crushed hoses
 Embedded armouring in outer covers
 Displaced end fittings.
 INT-3-3-2

⚠ WARNING

Metal Splinters. You can be injured by flying metal splinters when driving pins in or out. Use a soft faced hammer or drift to remove and fit metal pins. Always wear safety glasses.

INT-3-1-3

⚠ WARNING

Electrical Circuits. Understand the electrical circuit before connecting or disconnecting an electrical component. A wrong connection can cause injury and/or damage.

INT-3-1-4

Do not disconnect the battery while the engine is running otherwise the electrical circuits may be damaged.

INT-3-1-14

⚠ WARNING

Communications. Bad communications can cause accidents. If two or more people are working on the machine, make sure each is aware of what the others are doing. Before starting the engine make sure the others are clear of the danger areas; examples of danger areas are: the rotating blades and belt on the engine, the attachments and linkages, and anywhere beneath or behind the machine. People can be killed or injured if these precautions are not taken.

INT-3-1-5

⚠ CAUTION

'O' rings, Seals and Gaskets. Badly fitted, damaged or rotted 'O' rings, seals and gaskets can cause leakages and possible accidents. Renew whenever disturbed, unless otherwise instructed. Do not use Trichloroethane or paint thinners near 'O' rings and seals.

INT-3-2-12

⚠ CAUTION

Cleaning. Cleaning metal parts with incorrect solvents can cause corrosion. Use only recommended cleaning agents and solvents.

INT-3-2-11

⚠ CAUTION

Machine Modifications. This machine is manufactured in compliance with legislative and other requirements. It should not be altered in any way which could affect or invalidate any of the requirements. For advice consult your JCB Distributor.

12-1-1-3

 **CAUTION**

Arc Welding. Before carrying out arc welding on the machine, disconnect the battery and alternator to protect the circuits and components.

The battery must still be disconnected even if a battery isolator is fitted.

Make sure that the welding earth return path is kept as short as possible. This prevents high currents being induced in the machine chassis or wiring harnesses.

If the machine is equipped with electronic control units (E.C.U.s), then disconnect them before welding. Failure to disconnect the E.C.U.s could result in irreparable damage to the electronic components.

INT-3-1-15

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Contents	Page No.
Fluids, Capacities and Lubricants	1 - 1
Lubricants	
Health and Safety	1 - 2
Service Schedules	2 - 1
Operator's Enclosure and Seat Belt	3 - 1
* Cleaning the Machine	3 - 2
Greasing	4 - 1
Electrics	
Battery Safety	5 - 1
Checking the Electrolyte Level	5 - 2
Checking the Battery Terminals	5 - 2
Warning Symbols	5 - 2
Hydraulic System	
Checking the Fluid Level	6 - 1
Checking for Leaks	6 - 1
Checking the Hoses and Pipework	6 - 1
Filter - Removal and Replacement	6 - 2
Air Filter	
Changing the Elements	7 - 1
Cooling System	
Coolant Mixture	8 - 1
* Checking the Coolant Level - Diesel Engine	8 - 2
Engine Oil	
Checking the Oil Level (Diesel)	9 - 1
Changing the Oil and Filter (Diesel)	9 - 2
Fuel System - Diesel	
Types of Fuel	10 - 1
Filling the Tank	10 - 1
Draining the Sedimenter	10 - 2
Bleeding the Diesel Fuel System (if required)	10 - 3
Fuel System - LPG	
General	11 - 1
Type of LPG	11 - 1
Filling the LPG Tank	11 - 2
Fan Belt (Diesel and LPG Engine)	
Checking the Fan Belt Tension	12 - 1
Transmission	
Steer Spindle (4x4 Option Only)	13 - 1

Fluids, Capacities and Lubricants

ITEM	CAPACITY	FLUID/LUBRICANT	SPECIFICATION
Engine Oil NAT ASP * Up to SN892816	8.2 litres	JCB 10W/30 Multigrade	SAE10W/30 API CF4/SG
From SN892817	10 litres	JCB Extreme Performance Engine Oil 15W/40	CH4/SJ (ACES E5-B3-A3)
Turbo	10 litres	JCB Extreme Performance Engine Oil 15W/40	CH4/SJ (ACES E5-B3-A3)
LPG	8.2 litres	JCB 10W/30 Multigrade	SAE10W/30 API CF4/SG
Hydraulic System	55 litres	JCB 15W/40 Multigrade JCB 10W/30 Multigrade	API CF4/SG 15W/40 API CF4/SG 10W/30
Cooling System	5.5 litres Antifreeze 11 litres total coolant mixture	JCB Universal Antifreeze/water (see Coolant Mixtures)	ASTM D3306-74
Fuel System	90 litres	Diesel oil (see Types of Fuel) Liquid Petroleum Gas (LPG) (see LPG Fuel System)	ASTM D975-66T Nos. 1D, 2D
Grease Points	-	JCB Special HP or MPL Grease	Lithium based, No. 2 consistency
Boom Runways	-	Waxoyl	-

It is most important that you read and understand this information and the publications referred to. Make sure that all of your colleagues who are concerned with lubricants read it too.

Lubricants - Health and Safety

Hygiene

JCB lubricants are not a health risk when used properly for their intended purposes.

However, excessive or prolonged skin contact can remove the natural fats from your skin, causing dryness and irritation.

Low viscosity oils are more likely to do this, therefore particular care is necessary in handling used oils which can be diluted with fuel contamination.

Whenever you are handling oil products you should maintain good standards of care and personal and plant hygiene. For details of these precautions we advise you to read the relevant publications issued by your local health authority, and note the following:

Storage

Always keep lubricants out of the reach of children.

Never store lubricants in open or unlabelled containers.

Waste Disposal

All waste products should be disposed of in accordance with all the relevant regulations.

The collection and disposal of used engine oil should be in accordance with any local regulations. Never pour used engine oil into sewers, drains or on the ground.

Handling

New Oil

There are no special precautions needed for the handling or use of new oil, beside normal care and hygiene practices.

Used Oil

Used engine crankcase lubricants contain harmful contaminants. In laboratory tests it was shown that used engine oils can cause skin cancer.

Here are precautions to protect your health when handling used engine oil:

- 1 Avoid prolonged, excessive or repeated skin contact with used engine oils.
- 2 Apply a barrier cream to the skin before handling used engine oil.

3 Note the following when removing engine oil from skin:

- a Wash your skin thoroughly with soap and water.
- b Using a nail brush will help.
- c Use special hand cleansers to help clean dirty hands.
- d Never use petrol, diesel fuel or paraffin for washing.
- e Avoid skin contact with oil soaked clothing.
- f Don't keep oily rags in pockets.
- g Wash dirty clothing before re-use.
- h Throw away oil-soaked shoes.

First Aid - Oil

Swallowing.

If oil is swallowed you should not induce vomiting. Get medical advice.

Skin

In the case of excessive skin contact you should wash with soap and water.

Eyes

In the case of eye contact, flush with water for 15 minutes. If irritation persists, get medical attention.

Spillage

Absorb on sand or a locally approved brand of absorbent granules. Scrape up and remove to a chemical disposal area.

Fires

Extinguish with carbon dioxide, dry chemical or foam. Firefighters should use self contained breathing apparatus.

WARNING

Do not use water to put out an oil fire. This will only spread it because oil floats on water.

Extinguish oil and lubricant fires with carbon dioxide, dry chemical or foam. Fire fighters should use self contained breathing apparatus.

7-3-1-3/1

A badly maintained machine is a danger to the operator and the people working around him. Make sure that the regular maintenance and lubrication jobs listed in the schedules are done to keep the machine in a safe and efficient working condition.

The schedules are based on machine running hours. Keep a regular check on the hourmeter readings. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

● = Initial 250 Hour Check Only

■ = Regular Maintenance Check

Pre-start Cold Checks Service Points and Fluid Levels	Operation	250 Hr	500 Hr	1000 Hr	2000 Hr
ENGINE (LPG and Diesel)					
Oil and Filter (see note)	- Change	●	■	■	■
Air Cleaner Dust Valve	- Clean		■	■	■
Air Cleaner Outer Element	- Change		■	■	■
Air Cleaner Inner Element	- Change			■	■
Fuel Filter (Diesel only)	- Change	●	■	■	■
Coolant Level	- Check	●	■	■	■
Antifreeze Strength	- Check	●	■	■	■
Air Cleaner Hose	- Security	●	■	■	■
Fuel Sedimenter (Diesel only)	- Drain	●	■	■	■
Fan Belt Tension/Condition	- Check	●	■	■	■
Valve Clearances (Diesel only)	- Check and Adjust			■	■
Engine Mount Security	- Check	●			■
Radiator Matrix	- Clean	●	■	■	■
Radiator Hose	- Condition	●	■	■	■
Spark Plugs (LPG only)	- Clean/Replace		■	■	■
Clean turbo charger impeller casing and turbo charger compressor casing			■	■	■
Fit new engine breather (HR build only)				■	■
Note: If operating under arduous conditions change the engine oil filter every 250 hours					
TRANSMISSION AND AXLES					
Wheel Nuts Security	- Check	●	■	■	■
Tyre Pressures and Condition	- Check	●	■	■	■
Rear Wheel Hub Bearings and Pins	- Check		■		■
Steer Linkage for Wear	- Check		■	■	■
Steer Spindle (4 Wheel Drive Option Only)	- Check			■	■
HYDRAULICS					
Suction Strainer Oil Sample/Change	- Clean				■
Oil Level	- Check	●	■	■	■
Oil Filter	- Change	●	■	■	■
Ram Piston Rods for Damage or Leakage	- Check	●	■	■	■
Hoses & Pipework - Damage or Leaks	- Check	●	■	■	■
Motor Mounting Bolts Security	- Check	●	■		■
Hydraulic Oil	- Change				■
ELECTRICS					
Wiring for Chafing	- Check	●	■	■	■
Battery Terminals for Condition and Tightness	- Check	●	■	■	■
BODY AND FRAMEWORK					
All Pivot Pins	- Check and Grease	●	■	■	■
All Hinges	- Grease	●	■	■	■
* Wear Pad Runways	- Waxoyl	●	■	■	■
Seat/Seat Belt Security and Condition	- Check	●	■	■	■
Bodywork for Damage	- Check	●	■	■	■
* Windscreen Washer Fluid Level	- Fill	●	■	■	■
Check boom rear wear pad mounting bolts for tightness (56Nm, 41lbf ft)		●	■	■	■

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