



Service Manual

**JS130W
JS150W**

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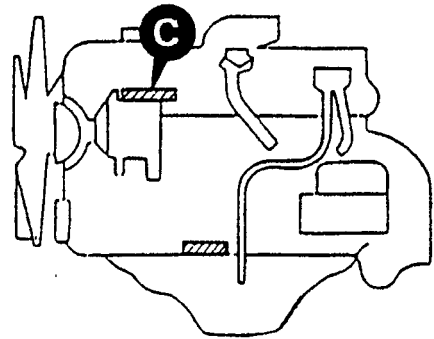
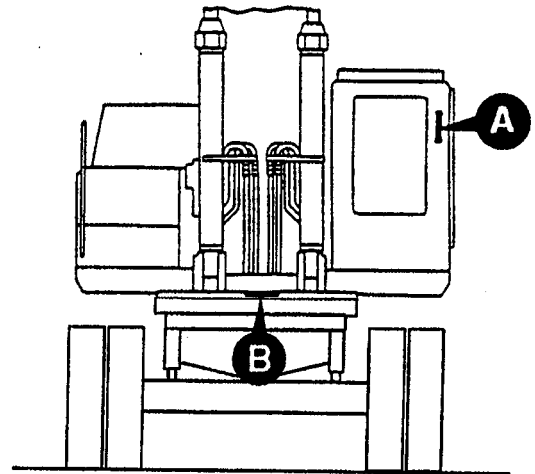
1 - 1

Machine Identification

1 - 1

Each machine has a Data Plate, located to the rear left, inside the cab as shown at **A**. The machine serial number is inscribed at **B** and the engine number at **C**.

If the engine is replaced by a new one, the data plate serial number will be wrong. Either stamp the new number on the plate or stamp out the old one. This will prevent the wrong number being quoted when ordering replacement parts.



Torque Settings

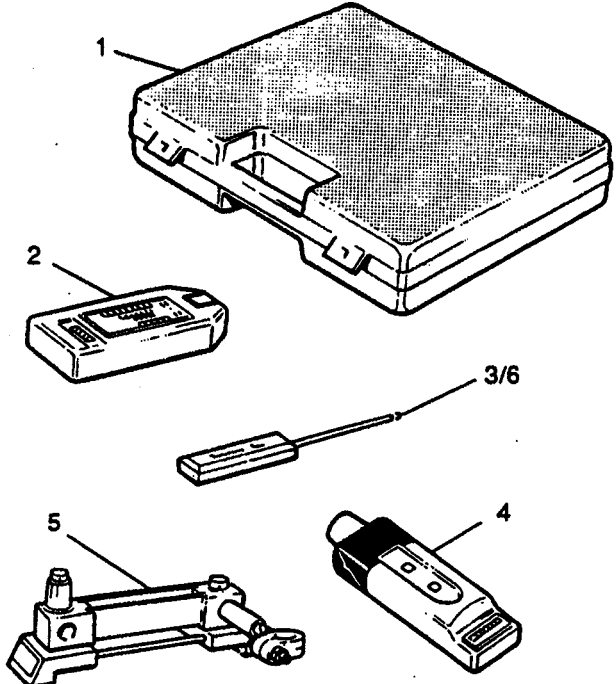
Note 1: The figures quoted are for non-plated fasteners and are to be used only when there is no torque setting specified in the relevant procedure in this service manual.

Note 2: The 4T grade settings DO NOT APPLY to fasteners used on the engine. If any 4T specification fasteners are found on the engine these must be tightened to the figure quoted in the relevant engine manual.

Bolt Size	Strength Grade of Bolt or Stud								
	4T			8.8			10.9		
	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
M3	0.39	0.04	0.28	-	-	-	-	-	-
M4	0.78	0.08	0.57	-	-	-	-	-	-
M5	1.67	0.17	1.2	-	-	-	-	-	-
M6	2.84	0.29	2.1	8.04	0.82	5.9	11.3	1.15	8.3
M8	7.06	0.72	5.2	19.6	2.00	14.5	27.7	2.82	20.4
M10	14.0	1.43	10.3	39.1	3.99	28.8	55.0	5.61	40.6
M12	24.6	2.51	18.1	68.5	6.98	50.5	96.2	9.81	71
M16	61.9	6.31	45.7	173	17.6	127.6	242	24.7	178.5
M20	122	12.4	90	337	34.4	249	475	48.4	350
M22	167	17.0	123	464	47.3	342	652	66.5	481
M24	210	21.4	155	584	59.5	431	821	83.7	606
M27	311	31.7	229	864	88.1	637	1220	124	900
M30	420	42.8	310	1170	119	863	1650	168	1217
M33	576	58.7	425	1600	163	1180	2260	230	1667
M36	736	75.1	543	2050	209	1512	2880	294	2124
M39	961	98.0	709	2680	273	1977	3760	383	2773
M42	1190	121	878	3300	336	2434	4640	473	3422
M45	1490	152	1099	4140	422	3054	5820	593	4293
M48	1780	182	1312	4960	506	3659	6970	711	5141

Service Tools

SECTION C - ELECTRICS



1 892/00283 Tool Kit Case

2 892/00281 AVO Meter

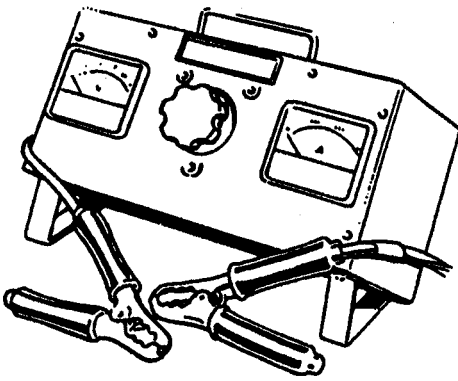
3 892/00286 Surface Temperature Probe

4 892/00284 Microtach Digital Tachometer

5 892/00282 Shunt - open type

6 892/00285 Hydraulic Oil Temperature Probe

7 892/00298 Fluke 85 Multimeter



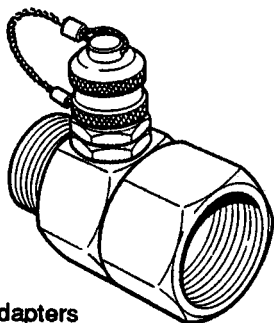
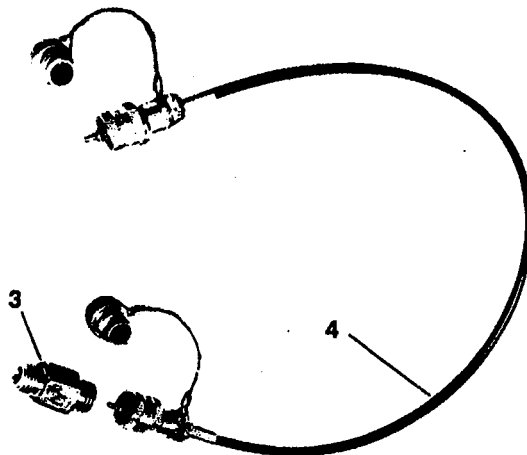
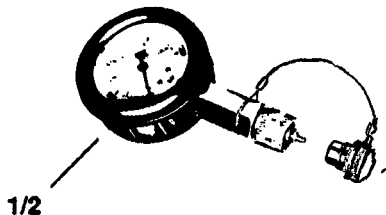
892/00121 High Rate Discharge Tester (400 Amps) for testing battery discharge condition

Service Tools (continued)

SECTION E - HYDRAULICS

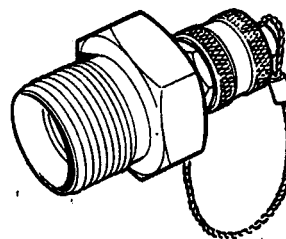
Hydraulic Pressure Test Gauges and Connections

- 1 892/00279 Pressure Gauge 0-400 bar (0-6000 lbf/in²)
- 2 892/00346 Pressure Gauge 0-70 bar (0-1000 lbf/in²)
- 3 892/00347 Connector
- 4 892/00254 Hose



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
- 892/00266 1,1/4 in M BSP x 1,1/4 in F BSP x Test Point
- 892/00267 1,1/2 in M BSP x 1,1/2 in F BSP x Test Point

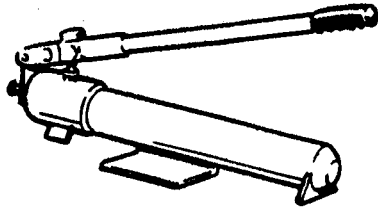


Pressure Test Adapters

- 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

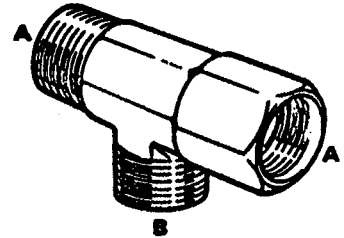
Service Tools (continued)

SECTION E - HYDRAULICS

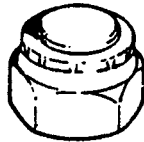


Hand Pump Equipment

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/in ²)
892/00279	Gauge 0 - 400 bar (0 - 6000 lbf/in ²)
892/00280	Gauge 0 - 600 bar (0 - 8500 lbf/in ²)

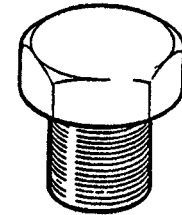


816/50005	1/2 in. BSP (A) x 1/2 in. BSP (B)
816/60096	3/4 in. BSP (A) x 3/4 in. BSP (B)
816/00018	1 in. BSP (A) x 1 in. BSP (B)



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



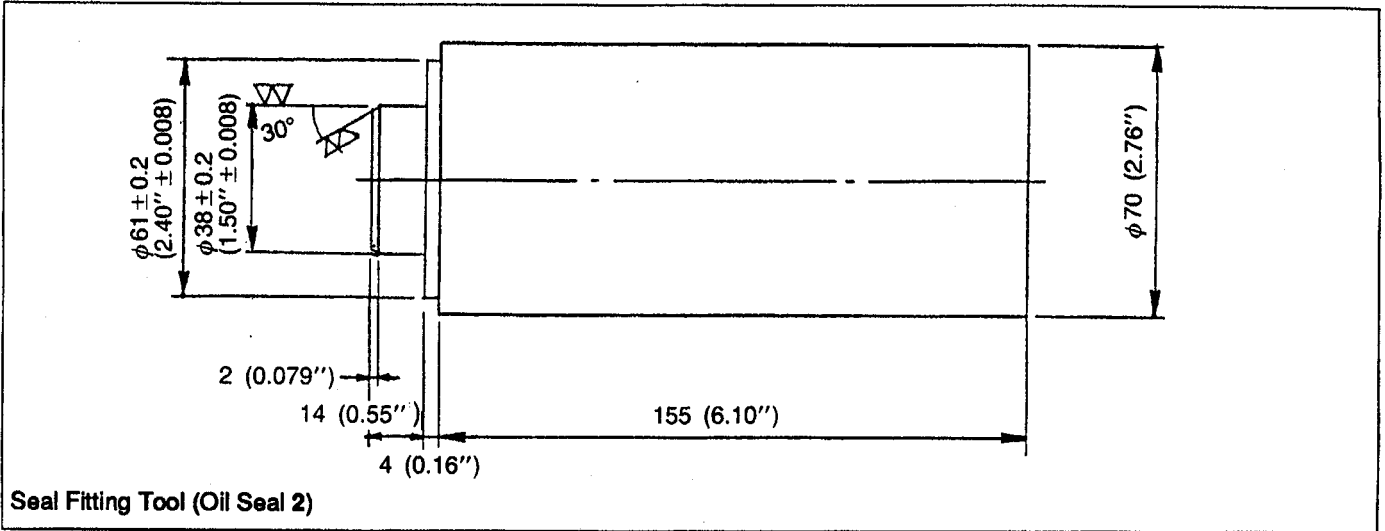
Male Cone Blanking Cap

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

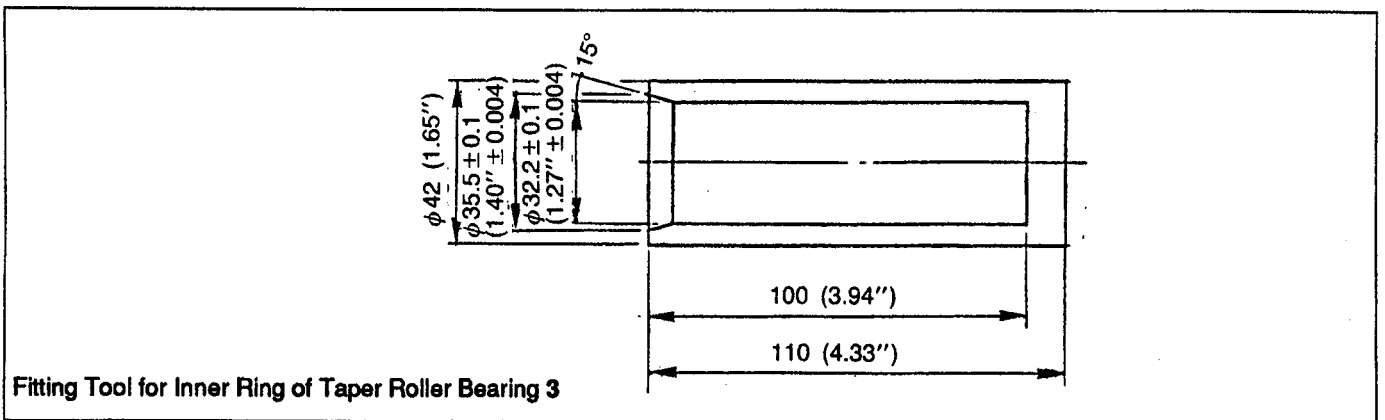
Service Tools (continued)

SECTION E - HYDRAULICS

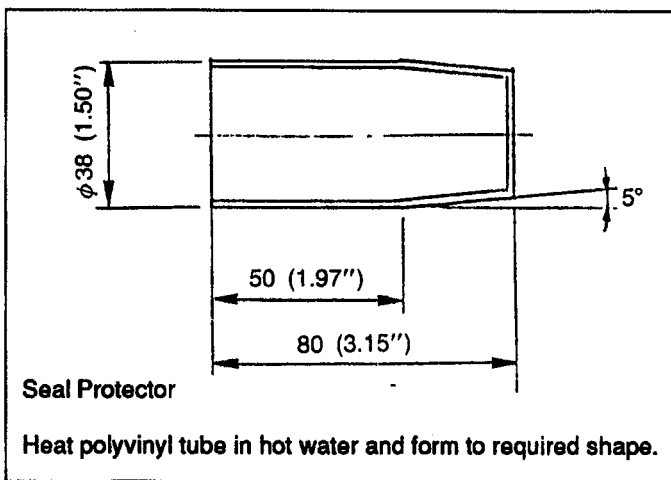
Swing Motor Unit - JS 130W



Seal Fitting Tool (Oil Seal 2)

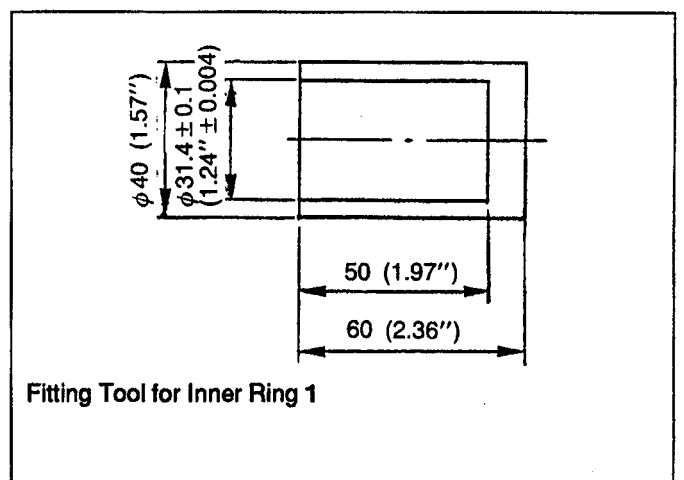


Fitting Tool for Inner Ring of Taper Roller Bearing 3



Seal Protector

Heat polyvinyl tube in hot water and form to required shape.

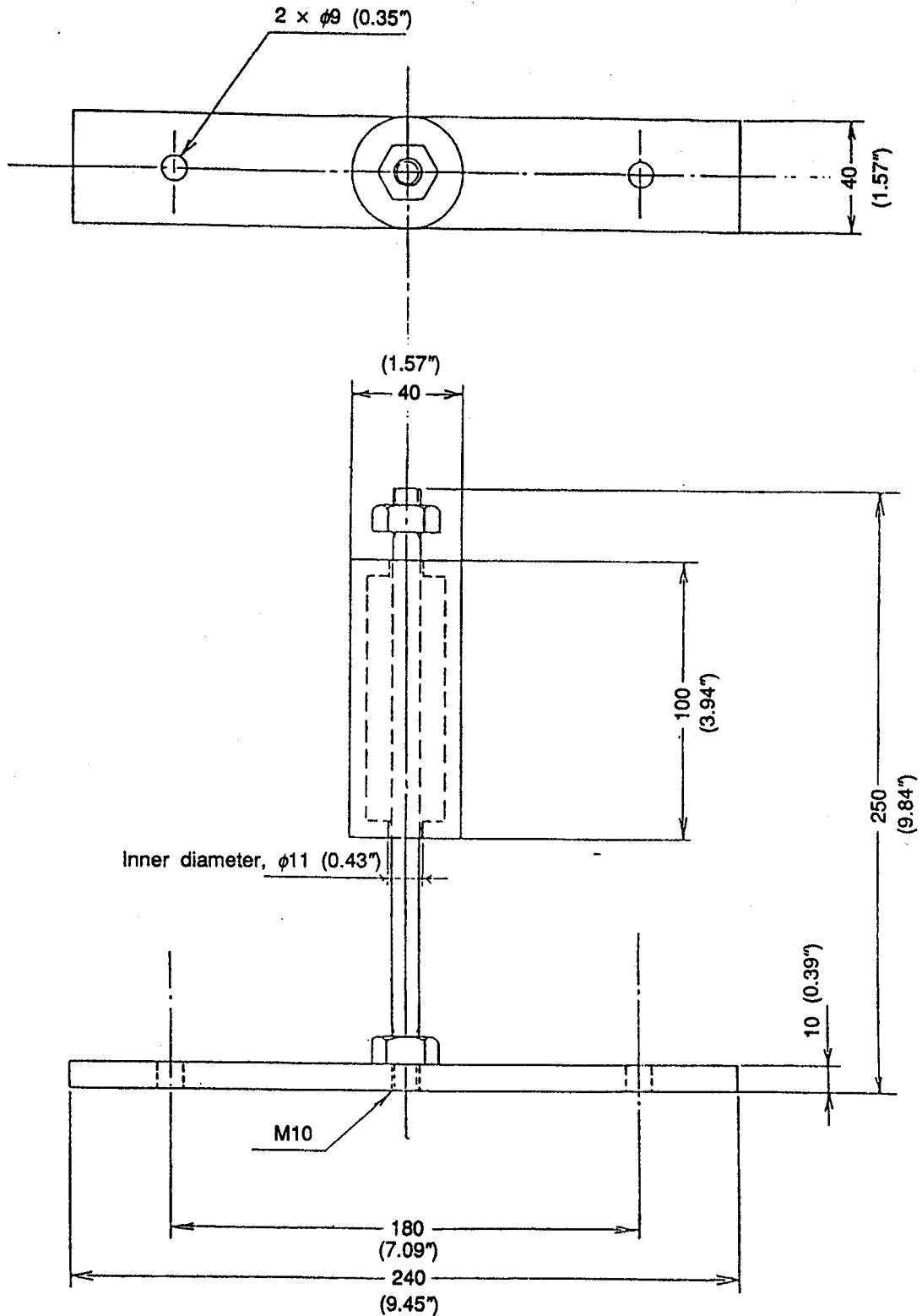


Fitting Tool for Inner Ring 1

Service Tools (continued)

SECTION E - HYDRAULICS

Swing Motor Unit - JS 150W



Puller for Brake Piston

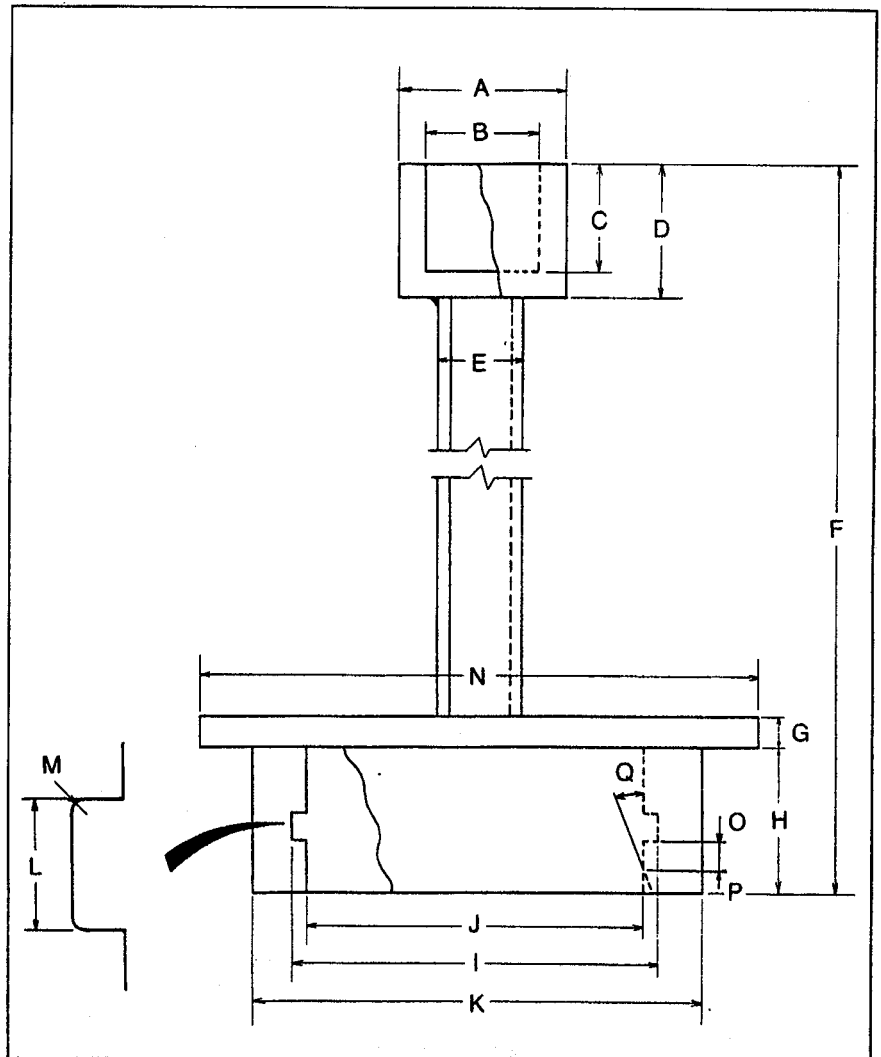
Stud is threaded M10 on both ends for 20 mm (0.8 in) and fitted with two M10 nuts.

Service Tools (continued)

SECTION E - HYDRAULICS

Hydraulic Tank - JS 130W, JS150W

A	Dia. 40mm (1.57in)
B	Dia. 26mm (1.02in)
C	40mm (1.57in)
D	50mm (1.97in)
E	Dia. 10mm (0.39in)
F	550mm (21.7in)
G	9mm (0.35in)
H	24mm (0.94in)
I	Dia. 81mm ⁺⁰ / _{-0.1} (3.19in ⁺⁰ / _{-0.004})
J	Dia. 76mm ⁺⁰ / _{-0.1} (2.99in ⁺⁰ / _{-0.004})
K	24mm (0.94in)
L	95mm (3.74in)
M	Radius 0.7mm (0.028in)
N	120mm (16.5in)
O	4.0mm (0.157in)
P	3.0mm (0.118in)
Q	15°
O-ring	G75

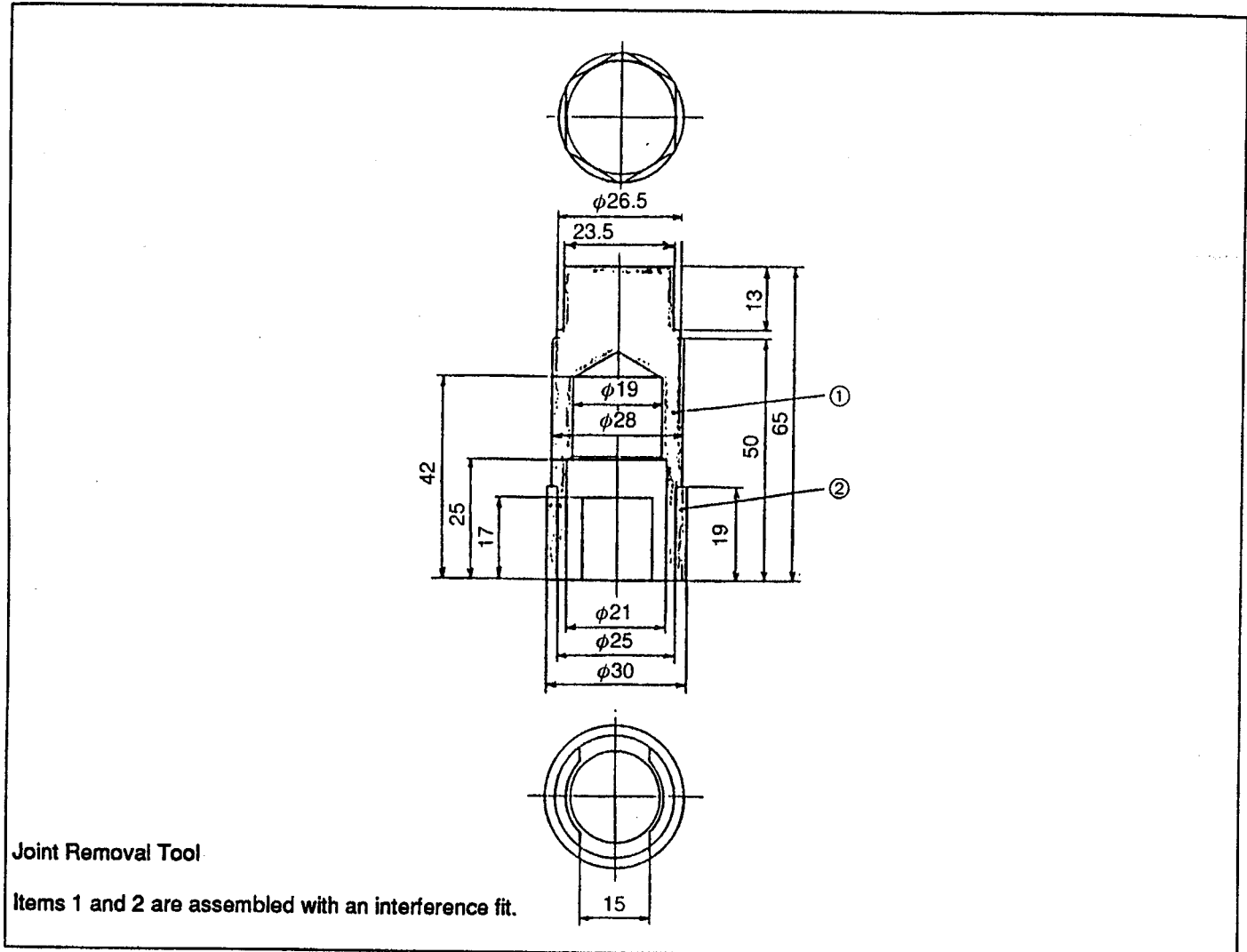


Blank for Suction Strainer

Service Tools (continued)

SECTION E - HYDRAULICS

Servo Hand Control Valve - JS 130W, 150W



Ram Pliston Nut Removal/Fitting Rig

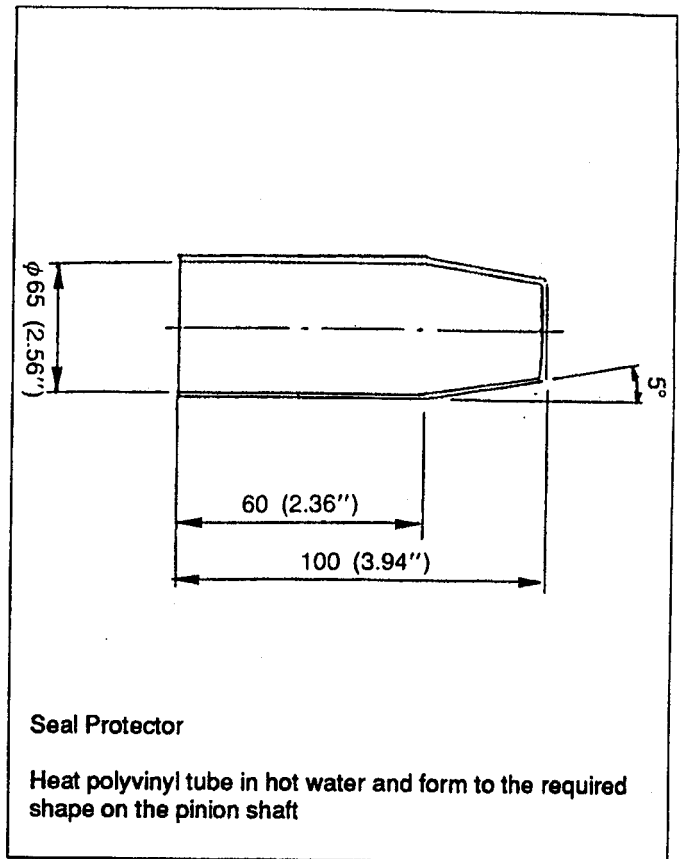
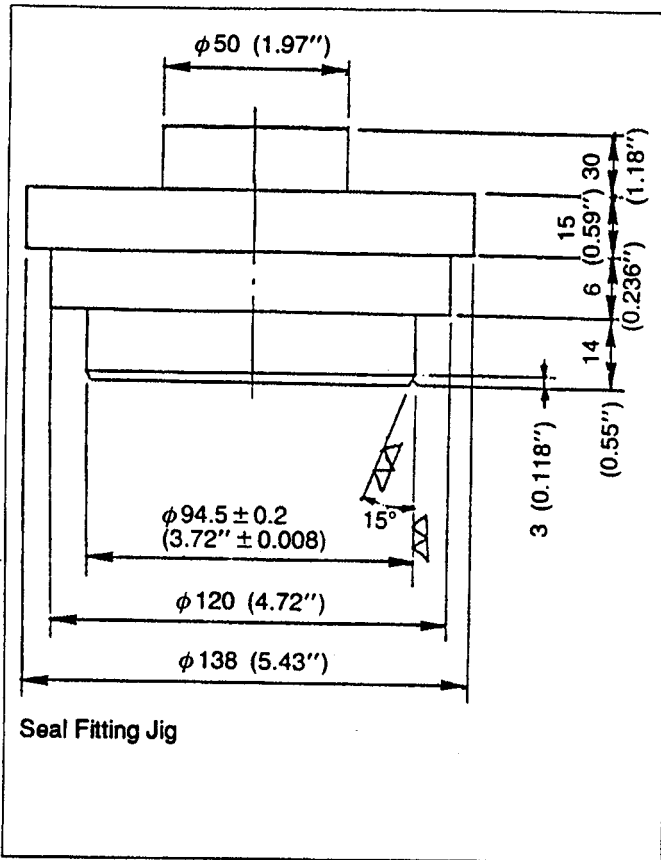
The rig, illustrated on page 45 - 9 of Section E, is made up of the following individual parts:

993/99525	Rig Assembly (not inc. spanners and ram)
993/99522	Anchor Side Plate (supplied loose unwelded)
993/99523	Anchor Cross Member (supplied loose unwelded)
993/99516	Spanner 75 mm A/F Nut
993/99517	Spanner 85 mm A/F Nut
993/99518	Spanner 90 mm A/F Nut
993/99524	Ram Eye End Modification Plate Assembly
556/43400	Lift Ram
545/18000	Lynch Pin
811/50232	1 1/4 in. Pivot Pin

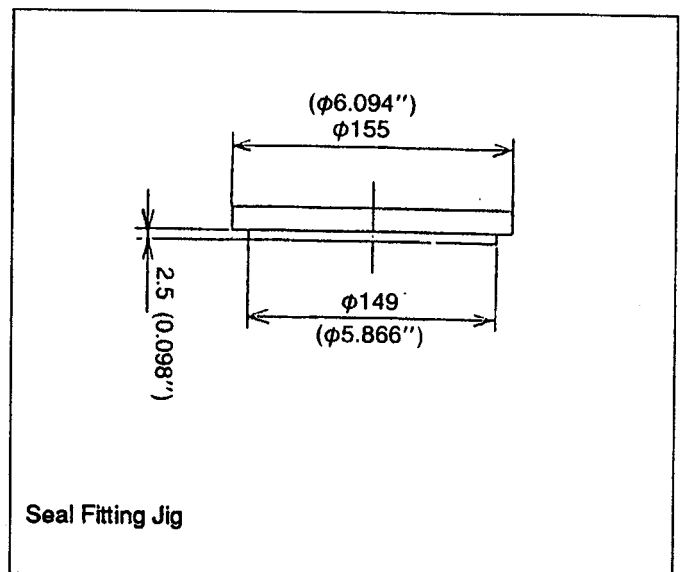
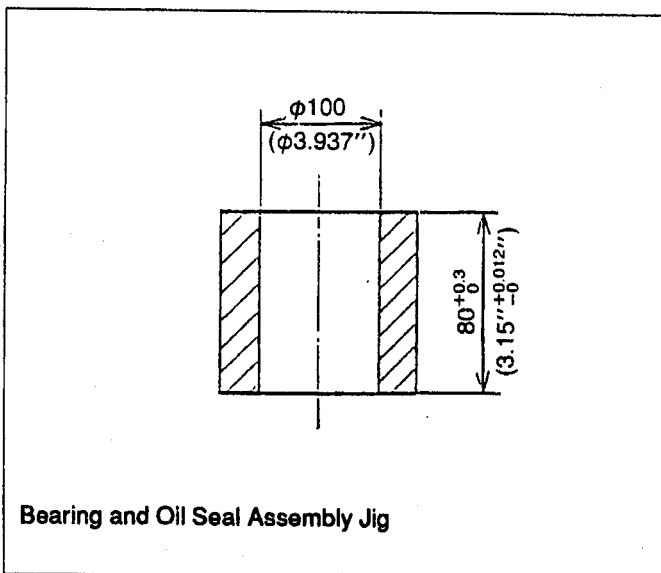
Service Tools (continued)

SECTION F - TRANSMISSION

Swing Gearbox - JS 130W



Swing Gearbox - JS 150W



Service Tools (continued)**SECTION F - TRANSMISSION****Drive Gearbox**

*Striker/internal puller	SSP0027/SSP0028
Clutch jig	SST0020
*Puller assembly	SSP0029/SSP0030/SSP0031
Centring piece (2 off)	SST0009
Measuring pin	SST0010
Measuring shaft	SST0014
*Driver	SSP0032
Hydraulic connector	SST0018
Measuring cover	SST0011
*Installer	SSP0035
Installer sleeve	SST0013
Pressure sleeve	SST0019

Front Axle

*Striker	SSP0027
*Wheel stud puller	SSP0033
Driver	SST0006
Brake piston installer	SST0007
Measuring ring	SST0017
*Measuring cover/spacer	SSP0034/SST0004
Gauge ring	SST0005
Bearing installer	SST0008

Rear Axle

Spanner/centring disc	SST0001/SST0002
*Wheel stud puller	SST0033
Driver	SST0006
Brake piston installer	SST0003

Sealing and Retaining Compounds

JCB Multi-Gasket	A medium strength sealant suitable for all sizes of gasket flanges, and for hydraulic fittings of 25-65 mm diameter.	4102/1201	
*JCB High Strength Threadlocker	A high strength locking fluid for use with threaded components.	4102/0502	
*JCB High Strength Retainer	For all retaining parts which are unlikely to be dismantled.	4101/0602	
JCB Lock and Seal	A medium strength locking fluid for sealing and retaining nuts, bolts, and screws up to 50 mm diameter, and for hydraulic fittings up to 25 mm diameter.	4101/0202	
Loctite Activator N	A cleaning primer which speeds the curing rate of anaerobic products.	4104/0101 4104/0102	Aerosol Bottle
*JCB Cleaner and Degreaser	For degreasing components prior to use of anaerobic adhesives and sealants.	4104/1538	Aerosol

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