

530-70, 530-110

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General Information

Service Manual - 530-70, 530-110

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Introduction

Identifying Your Machine

For information about identifying your machine and its main components, refer to ***Operator's Manual, Introduction, Identifying Your Machine.***



Section 1 - General Information

Introduction

Identifying Your Machine

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Safety

Introduction

In this manual and on the machine there are safety notices.

The safety notices have different signal words as follows:

- DANGER
- WARNING
- CAUTION
- Notice

For an explanation of the safety notice signal words, refer to **Section 2, Introduction, Safety**.

For general safety notices, refer to **Section 2, Introduction, Safety Check List**.

For maintenance safety notices, refer to **Section 2, Routine Maintenance, Health and Safety**.

For safety notices specific to maintenance procedures, refer to the relevant procedure.

If you do not fully understand a safety notice ask your employer to explain it.



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Use

Introduction

This topic contains information about the structure of the manual and how to use the manual.

⇒ [Scope \(□ 1-6\)](#)

⇒ [Personnel \(□ 1-6\)](#)

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Scope

Personnel

This 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 should have a sound knowledge of workshop practice, safety procedures, and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment. Finally, please remember above all else SAFETY MUST COME FIRST!

Newest Data

From time to time new machines, systems or devices require the manual to be re-issued. Make sure you have the newest issue.

Always check the on-line JCB data system for relevant technical information.

Format

The manual is compiled in sections, the first two are numbered and contain information as follows:

- 1 **General Information** - The section includes general information such as torque settings and service tools.
- 2 **Operator Manual** - The section contains a copy of the applicable machine Operator Manual. Refer to this section when necessary for information about the main machine components and controls. Refer also to the safety and daily / weekly maintenance information.

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

A Attachments

B Body and Framework...etc.

Each section contains data such as technical data, descriptions, fault finding and test procedures.

Some sections contain procedures and **specifications for different variants**. This happens because of market requirements, or when the machine specification changes after a period of time. Where applicable, a table contains information to help you identify the correct data and procedures.

Left Side, Right Side

In this manual, 'left' A and 'right' B mean your left and right when you are seated correctly in the machine.

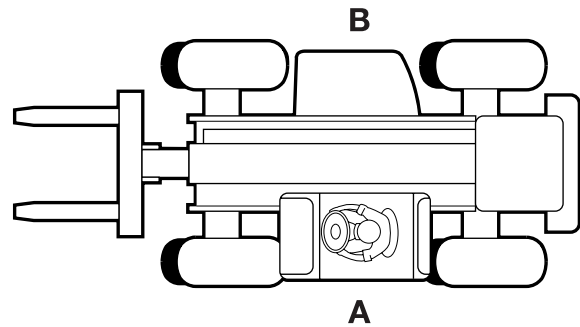









Fig 1.

D071040-52

Hydraulic Schematic Codes

Colour Codes

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

	Red	Full Pressure: Pressure generated from operation of a service. Depending on application this may be anything between neutral circuit pressure and LSRV operating pressure.
	Pink	Pressure: Pressure that is above neutral circuit pressure but lower than that denoted by Red.
	Orange	Pilot: Oil pressure used in controlling a device (Pilot).
	Blue	Neural: Neutral circuit pressure.
	Green	Exhaust:
	Light Green	Cavitation: Oil subjected to a partial vacuum due to a drop in pressure (cavitation).
	Yellow	Lock Up: Oil trapped within a chamber or line, preventing movement of components (lock up).

Routine Maintenance

Maintenance Schedules

This publication contains procedures for carrying out the routine maintenance tasks listed on the maintenance schedules. Refer to ***Operator's Manual, Maintenance Schedules***.

The procedures for the daily and weekly (10 and 50 hour) tasks are given in ***Operator's Manual, Maintenance***.

The procedures for the 100 hour and above tasks are given in the related sections of this publication. For example the procedures for engine related tasks are given in Section K.



Section 1 - General Information

Routine Maintenance

Maintenance Schedules

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Service Tools

Numerical List

The tools listed in the table are special tools required for carrying out the procedures described in this manual. These tools are available from JCB Service.

details of all tools, including the content of kits and sets, see the relevant section in this manual.

Some tools are available as kits or sets, the part numbers for parts within such kits or sets are not listed here. For full

Note: *Tools other than those listed will be required. It is expected that such general tools will be available in any well equipped workshop or be available locally from any good tool supplier.*

Part Number	Description	Tool Detail Reference - see Section:
-	AVO Test Kit - see tool detail reference for content	C
-	Bonded Washers - see tool detail reference for content	E
-	Female Cone Blanking Plugs - see tool detail reference for content	E
-	Female Connectors - see tool detail reference for content	E
-	Hydraulic Flow Test Equipment - see tool detail reference for content	E
-	Hydraulic Hand Pump Equipment - see tool detail reference for content	E
-	Male Adaptors - BSP x BSP - see tool detail reference for content	E
-	Male Adaptors - BSP x NPT (USA only) - see tool detail reference for content	E
-	Male Cone Blanking Caps - see tool detail reference for content	E
-	Pressure Test Points - `T' Adaptors - see tool detail reference for content	E
-	Pressure Test Points - Adaptors - see tool detail reference for content	E
-	Rivet Nut Tool - see tool detail reference for content	B
825/10053	Pilot hose release tool - for quick-connect hose fittings	E
892/01160	Engine lifting bracket (2-off)	K
4104/1310	Hand Cleaner	B
460/15708	Flow test adaptor - Powershift - Other components required, see tool detail	F
716/30313	Test relay - with LED indicator	L
721/10885	Interconnecting cable - use with 892/01033	F
825/10035	Adaptor plate spanner - viscous cooling fan	K
825/10036	Fan coupling spanner - viscous cooling fan	K
892/00011	Spool Clamp	E
892/00167	Ram Protection Sleeve for 90 mm Rod Diameter	E
892/00180	Seal Fitting Tool - Hydraulic Steer Unit	H
892/00181	Replacement Plastic Boss for 892/00180	H
892/00252	Test Block for Loader Valve A.R.V. (214e & 3C Machines Only)	E
892/00253	Hydraulic Pressure Test Kit - see tool detail reference for content	E, F



Section 1 - General Information Service Tools

Numerical List

Part Number	Description	Tool Detail Reference - see Section:
892/00268	Flow monitoring unit - Other components required, see tool detail	F
892/00301	Flow test adaptor - Synchro Shuttle - Other components required, see tool detail	F
892/00309	A.R.V. Pressure Test Kit - see tool detail reference for content	E
892/00334	Ram Seal Fitting Tool	E
892/00812	Drive coupling spanner	F
892/00822	Splined bolt socket	F
892/00842	Glass Lifter	B
892/00843	Folding Stand for Holding Glass	B
892/00844	Long Knife	B
892/00845	Cartridge Gun	B
892/00846	Glass Extractor (Handles)	B
892/00847	Nylon Spatula	B
892/00848	Wire Starter	B
892/00849	Braided Cutting Wire	B
892/00881	Valve Spool Seal Fitting Tool	E
892/00913	Grease gun attachment - Use where access to the grease nipple is restricted E.g. Axle driveshaft universal joints	F
892/00964	Test point 1/8 BSP Powershift	F
892/00965	Test point 3/8 BSP Powershift	F
892/00966	Test point 1/4 BSP Synchro Shuttle	F
892/01016	Ram Protection Sleeve for 25 mm Rod Diameter	E
892/01017	Ram Protection Sleeve for 30 mm Rod Diameter	E
892/01018	Ram Protection Sleeve for 40 mm Rod Diameter	E
892/01019	Ram Protection Sleeve for 50 mm Rod Diameter	E
892/01020	Ram Protection Sleeve for 50 mm Rod Diameter (slew ram)	E
892/01021	Ram Protection Sleeve for 60 mm Rod Diameter	E
892/01022	Ram Protection Sleeve for 60 mm Rod Diameter (slew ram)	E
892/01023	Ram Protection Sleeve for 65 mm Rod Diameter	E
892/01024	Ram Protection Sleeve for 70 mm Rod Diameter	E
892/01025	Ram Protection Sleeve for 75 mm Rod Diameter	E
892/01026	Ram Protection Sleeve for 80 mm Rod Diameter	E
892/01027	Piston Seal Assembly Tool	E
892/01033	Electronic service tool kit - also requires 721/10885	F
892/01042	Nitrogen Charging Tool Kit	E
892/01094	Transmission jack - support plates also required, see tool detail	F
892/01096	Speed sensor test harness - Powershift	F
892/01110	Torque converter alignment tool	F



Section 1 - General Information Service Tools

Numerical List

Part Number	Description	Tool Detail Reference - see Section:
926/15500	Rubber Spacer Blocks	B
992/04000	Torque Multiplier	F
992/09100	Excavator Spool Clamp	E
992/09300	Hexagon Spanner 55mm A/F	E, H
992/09400	Hexagon Spanner 65mm A/F	E, H
992/09500	Hexagon Spanner 75mm A/F	E, H
992/09600	Hexagon Spanner 85mm A/F	E, H
992/09700	Hexagon Spanner 95mm A/F	E, H
992/09900	Hexagon Spanner 115mm A/F	E, H
992/10000	Hexagon Spanner 125mm A/F	E, H
992/12300	12V Mobile Oven	B
992/12400	24V Static Oven (2 Cartridge)	B
992/12600	24V Static Oven (6 Cartridge)	B
992/12800	Cut-Out Knife	B
992/12801	`L' Blades	B
993/68100	Slide Hammer Kit - see tool detail reference for content	B
993/85700	Battery Tester	C
998/11051	Digital Pressure Test Set ⁽¹⁾	C
332/F1311	Gear shift cable tool	F
332/H1950	LMI transducer tester	B

(1) Only required for Joystick Control (Servo) machines.

Section B

Note: Not all service tools are illustrated.

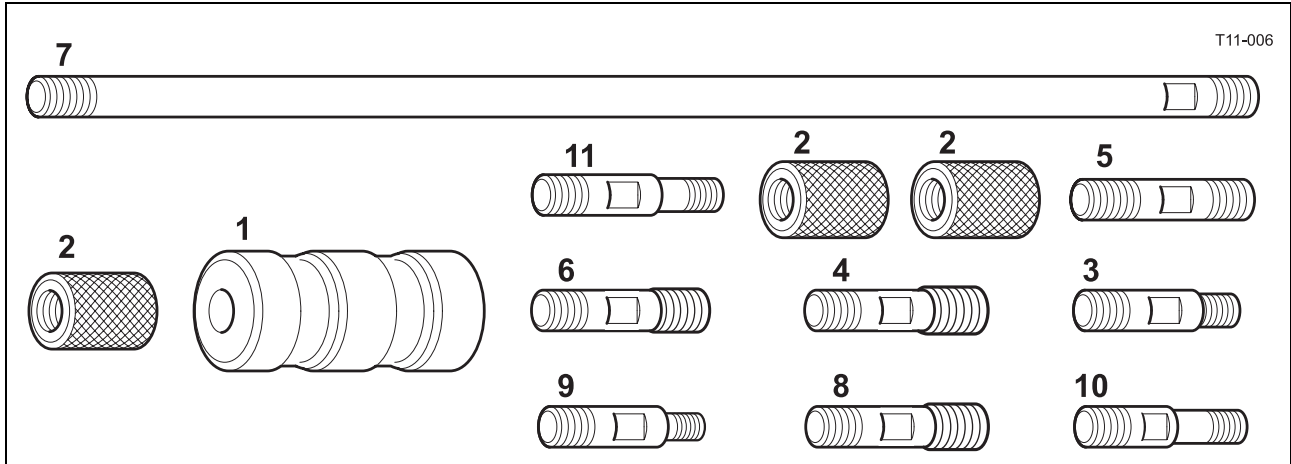


Fig 2. 993/68100 Slide Hammer Kit

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

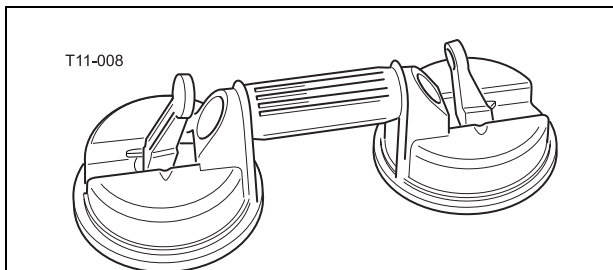


Fig 3. 892/00842 Glass Lifter

Minimum 2 off - Essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

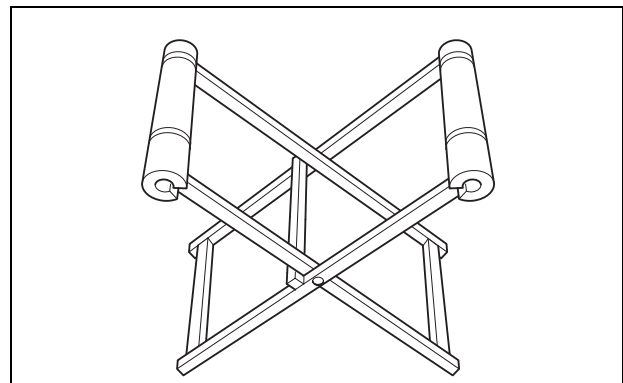
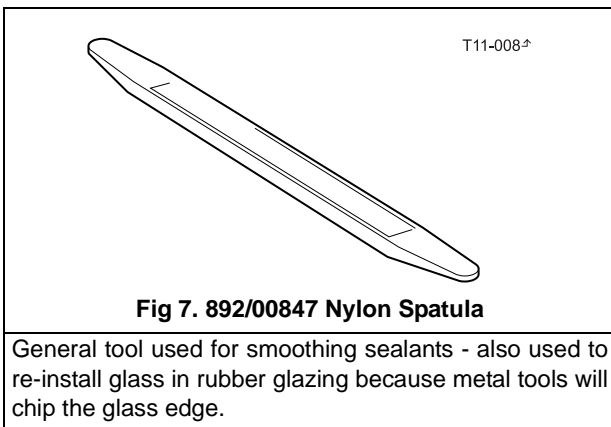
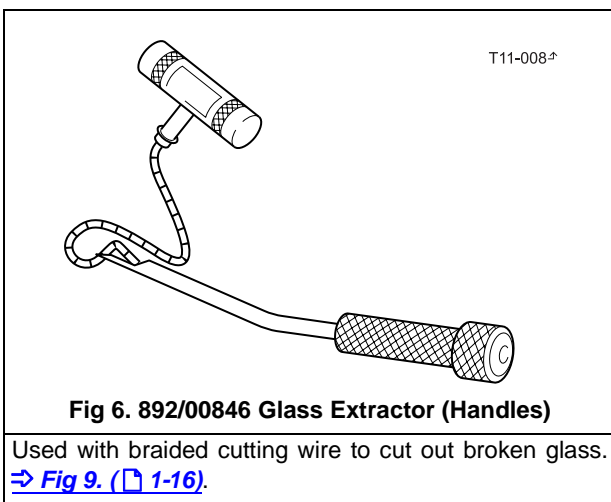
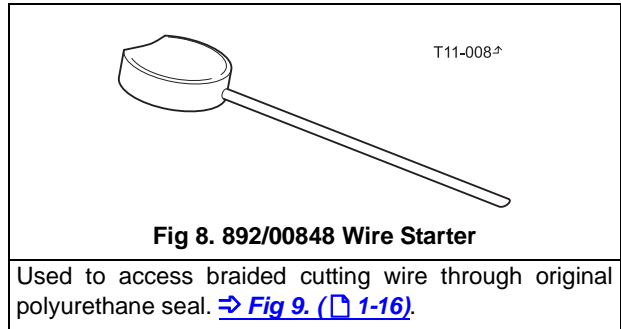
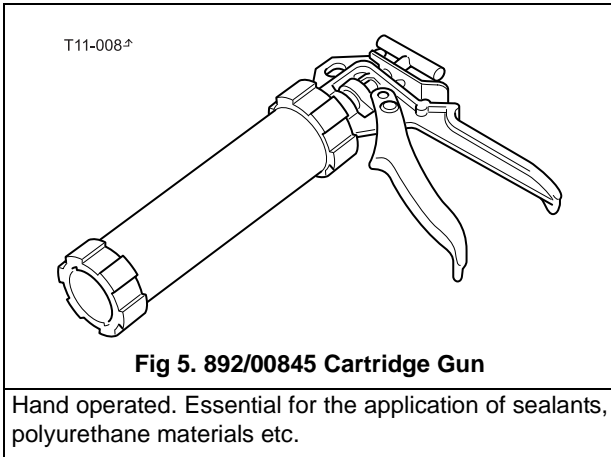
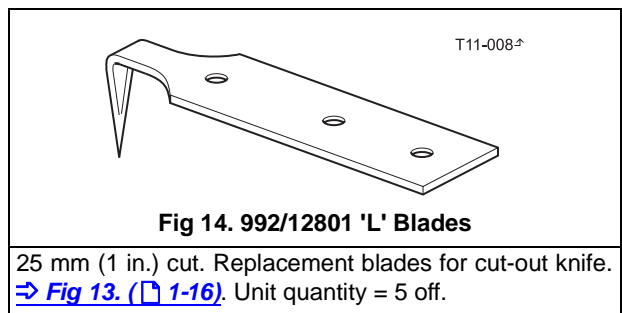
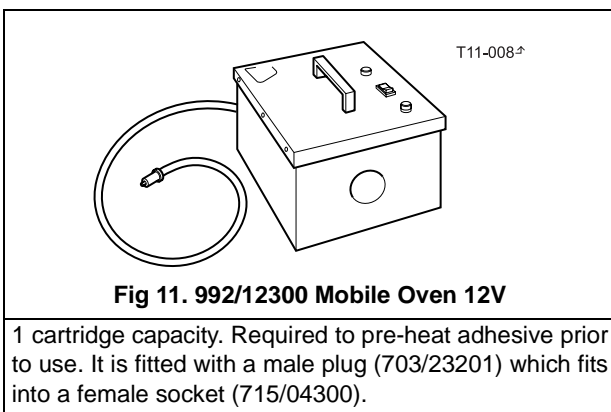
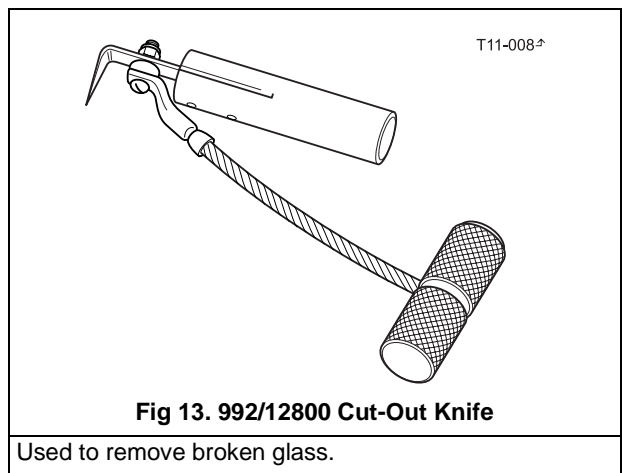
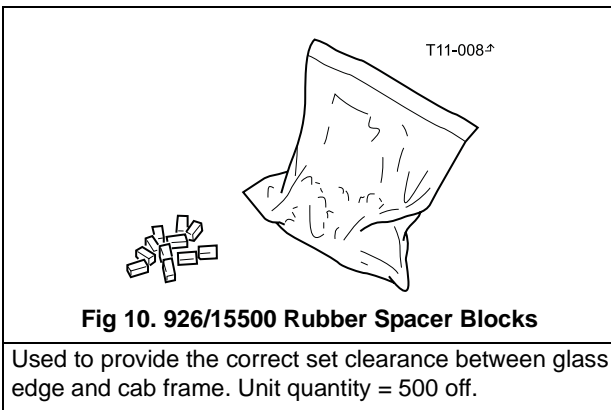
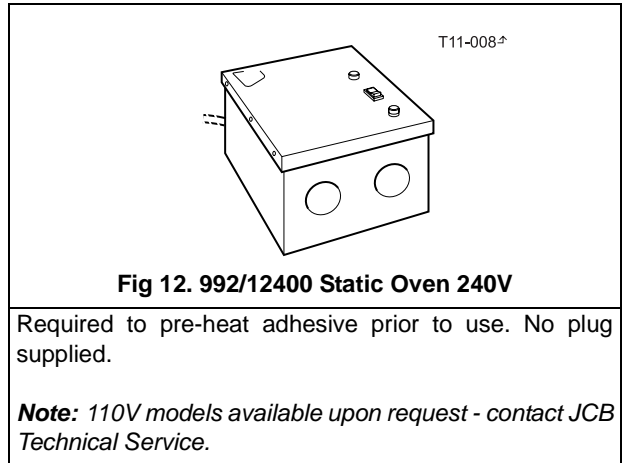
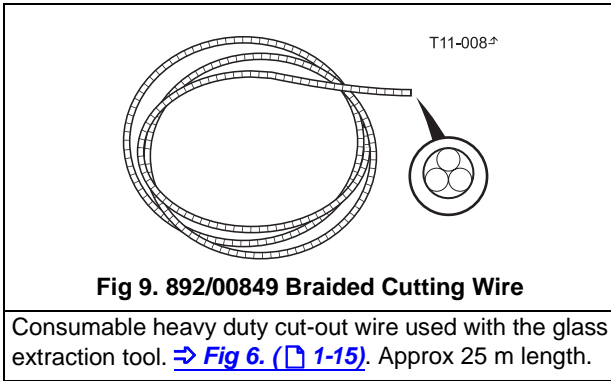
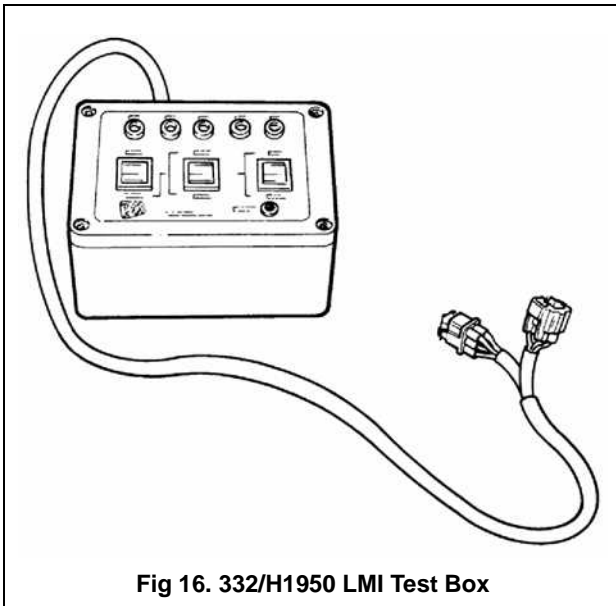
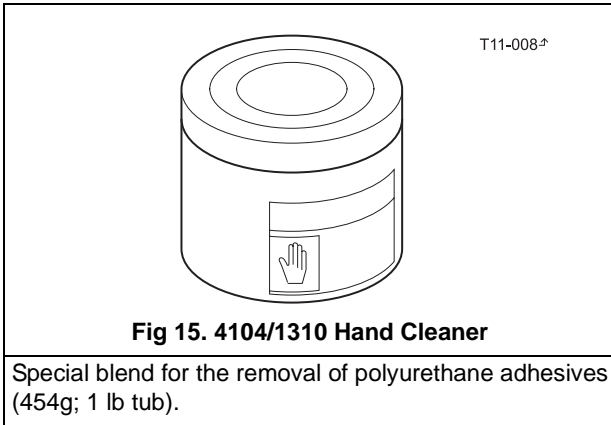


Fig 4. 892/00843 Folding Stand

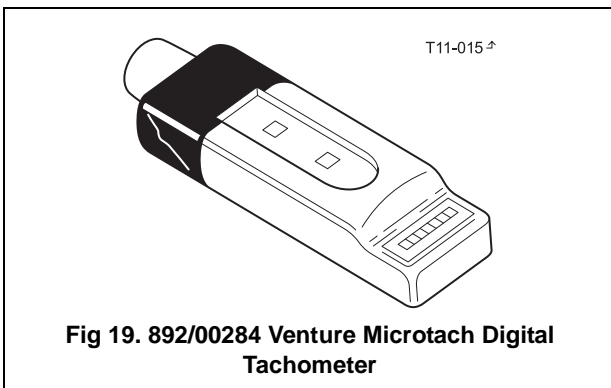
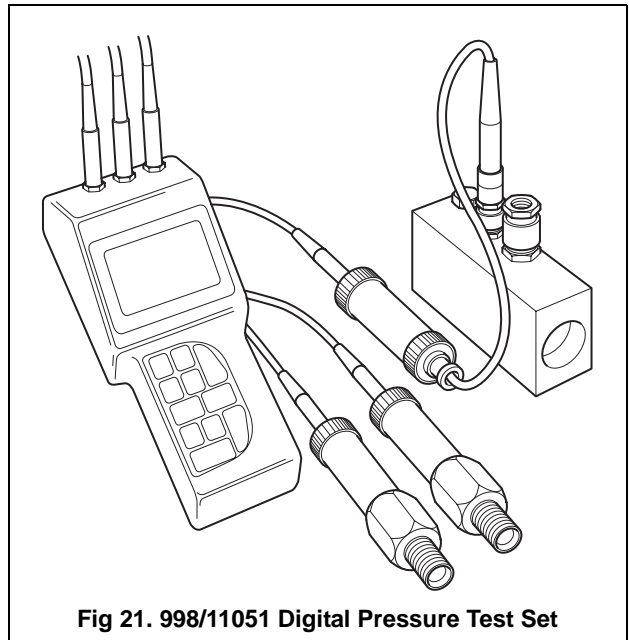
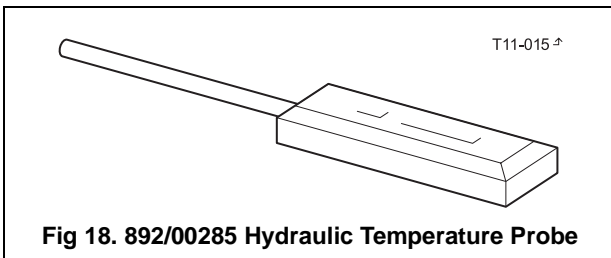
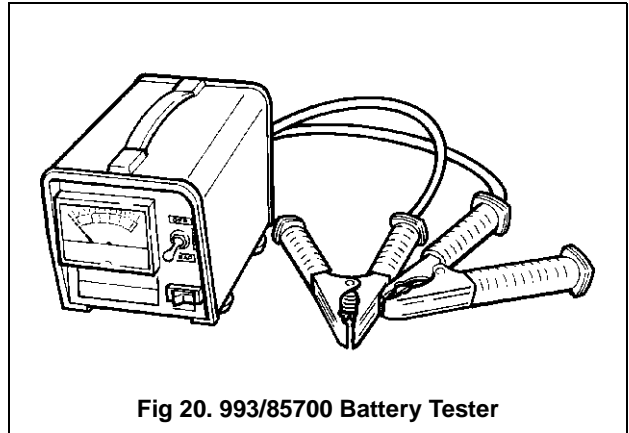
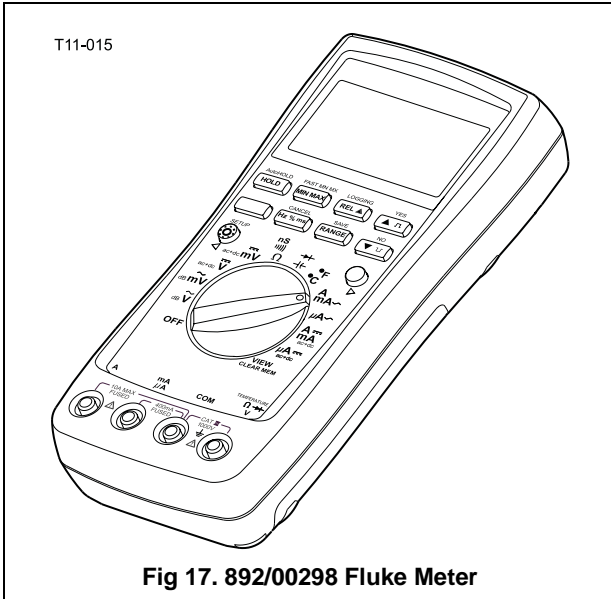
Essential for preparing new glass prior to installation.



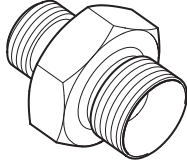


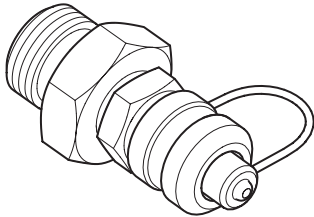


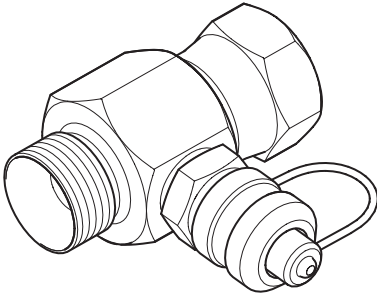
Section C



Section E

<p>T11-010</p>  <p>Fig 22. Male Adaptors</p>		Male Adapters - BSP x BSP	
		1606/2052	3/8 in. x 1/4 in.
		1604/0003A	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.
		1606/0007A	1/2 in. x 3/8 in.
		1604/0004A	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.
	Male Adapters - BSP x NPT (USA only)	1606/0009	3/4 in. x 1/2 in.
816/00439	3/8 in. x 1/4 in.	1604/2055	3/4 in. x 3/4 in.
816/00440	1/2 in. x 1/4 in.	1606/0012	3/4 in. x 1 in.
816/15007A	3/8 in. x 3/8 in.	1606/0014	3/4 in. x 1.1/4 in.
816/15008	1/2 in. x 3/8 in.	1606/0015	1 in. x 1.1/4 in.

<p>T11-010[±]</p>  <p>Fig 23. Pressure Test Adaptors</p>		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

<p>T11-010[±]</p>  <p>Fig 24. Pressure Test 'T' Adaptors</p>		816/55045	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	1.1/4 in. M BSP x 1.1/2 in. F BSP x Test Point

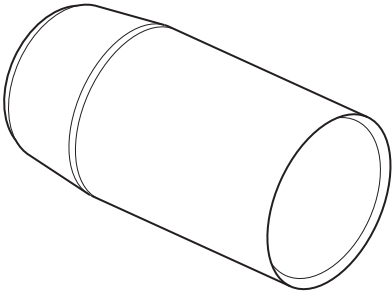
<p>T11-010[±]</p> <p>Fig 25. 'T' Adapters</p>	892/00047	3/8 in. BSP (A) x 1/4 in. BSP (B)
	892/00048	1/2 in. BSP (A) x 1/4 in. BSP (B)
	892/00049	5/8 in. BSP (A) x 1/4 in. BSP (B)
	816/50043	3/4 in. BSP (A) x 1/4 in. BSP (B)
	892/00051	1 in. BSP (A) x 1/4 in. BSP (B)
	816/50005	1/2 in. BSP (A) x 1/2 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)

<p>Fig 26. Female Blanking Caps</p>	892/00055A	1/4 in. BSP
	892/00056A	3/8 in. BSP
	892/00057	1/2 in. BSP
	892/00058A	5/8 in. BSP
	892/00059A	3/4 in. BSP
	892/00060	1 in. BSP

<p>Fig 27. Male Cone Blanking Caps</p>	816/90045	1/4 in. BSP
	816/00189A	3/8 in. BSP
	816/00190A	1/2 in. BSP
	816/90022	5/8 in. BSP
	816/90274	3/4 in. BSP
	816/90205	1 in. BSP

<p>T11-010[±]</p> <p>Fig 28. Female Connectors</p>	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

<p>T11-010[±]</p> <p>Fig 29. Bonded Washers</p>	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

 <p>Fig 30. Ram Protection Sleeves</p>	892/01016	For 25 mm Rod Diameter
	892/01017	For 30 mm Rod Diameter
	892/01018	For 40 mm Rod Diameter
	892/01019	For 50 mm Rod Diameter
	892/01020	For 50 mm Rod Diameter (slew ram)
	892/01021	For 60 mm Rod Diameter
	892/01022	For 60 mm Rod Diameter (slew ram)
	892/01023	For 65 mm Rod Diameter
	892/01024	For 70 mm Rod Diameter
	892/01025	For 75 mm Rod Diameter
	892/01026	For 80 mm Rod Diameter
892/00167	For 90 mm Rod Diameter	

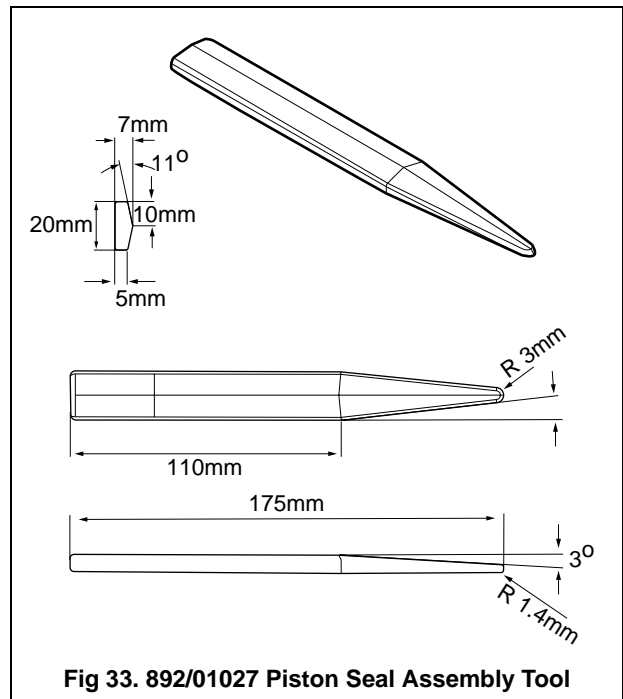
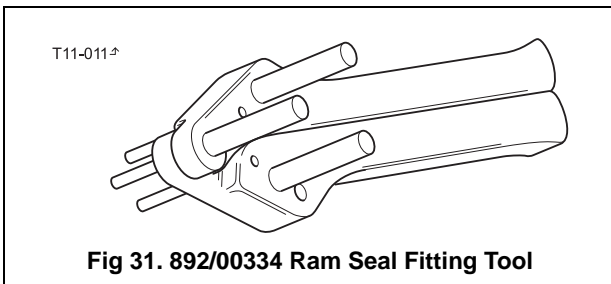
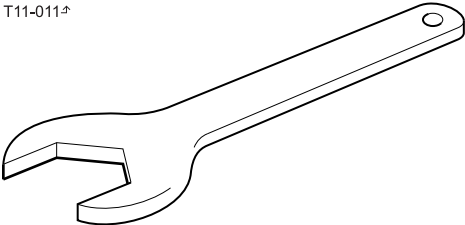
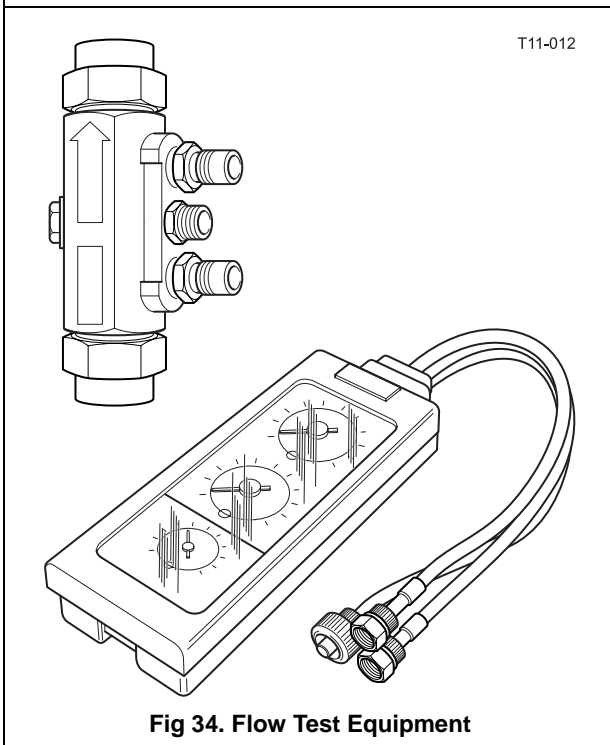



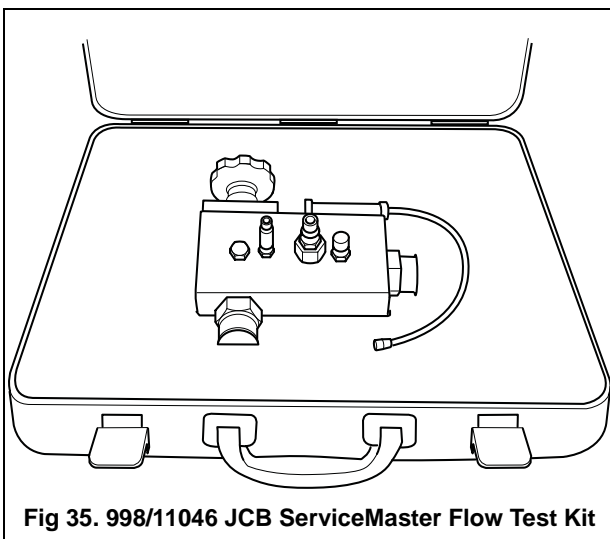
Fig 32. Hexagon Spanners for Ram Pistons and End Caps

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

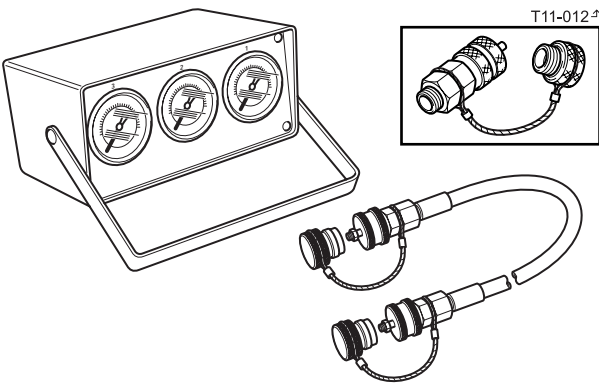
Note: No longer available, refer to 998/11046 JCB ServiceMaster Flow Test Kit. → Fig 35. (1-22).

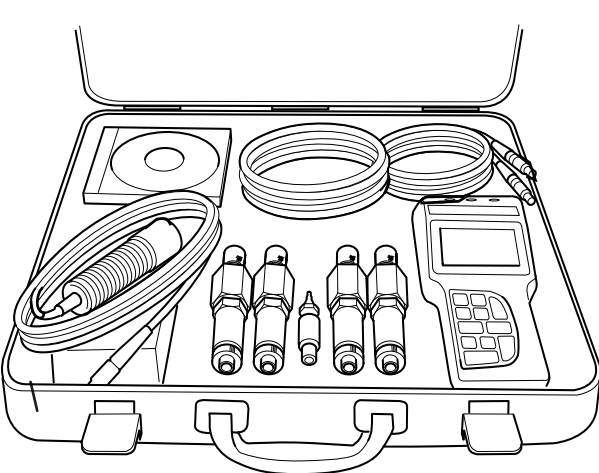


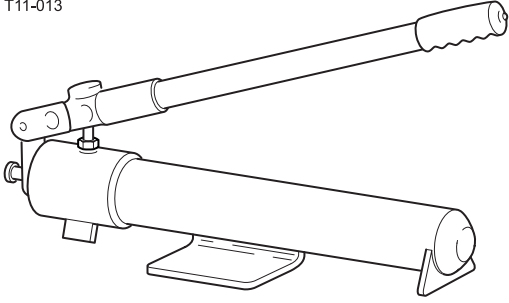
892/00268	Flow Monitoring Unit
892/00269	Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)
892/00273	Sensor Head 0 - 380 l/min (0 - 85.5 UK gal/min)
892/00293	Connector Pipe
892/00270	Load Valve
1406/0021	Bonded Washer
1604/0006A	Adapter 3/4 in M x 3/4 in M BSP
1612/2054	Adapter 3/4 in F x 3/4 in M BSP
892/00271	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
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

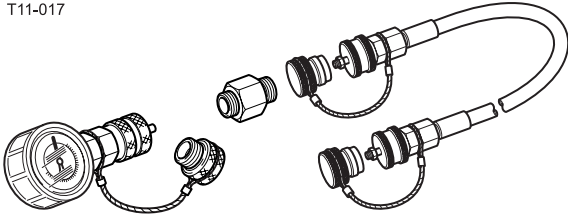


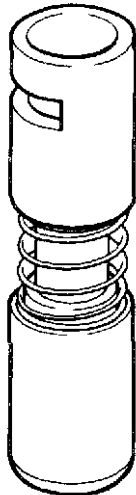
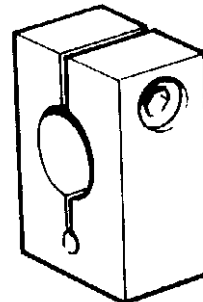
998/11047	600 LPM Flow Turbine with Loading Valve
998/11048	1-7/8" UNF x1 - 1/4" BSP Flow Block Adaptors x2
998/11049	Carrying Case for Flow Test Kit
998/11050	Temperature Sensor (125°C Max)

<p>Note: No longer available, refer to 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit. → Fig 37. (1-23).</p>  <p>Fig 36. 892/ 00253 Hydraulic Circuit Pressure Test Kit</p>	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
	892/00347	Connector - Hose to gauge

 <p>Fig 37. 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit</p>	998/11052	Hand Held 4-Channel ServiceMaster Unit
	998/11053	SensoWin Software Kit and PC Cable
	998/11054	Equipment Case SCC-750
	998/11055	0-600 Bar Pressure Transduce x2
	998/11056	0-100 Bar pressure Transducer x2
	998/11057	RPM Tachometer (includes fixed cable, 2 meters)
	998/11058	5 Meter Connecting Cable
	998/11059	M16 Metric Adaptors for Test Points x4
	998/11060	400mm Test Hose 90° HSP to M16 x2
	998/11061	400mm Test Hose Straight HSP to M16 x2

T11-013  Fig 38. 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/in ²)
	892/00279	Gauge 0 - 400 bar (0 - 6000 lbf/in ²)

T11-017  Fig 39. Hydraulic Circuit Test Gauges and Connections	892/00280	Pressure Gauge 0-600 bar (0-9000 lbf/in ²)
	892/00279	Pressure Gauge 0-400 bar (0-6000 lbf/in ²)
	892/00346	Pressure Gauge 0-70 bar (0-1000 lbf/in ²)
	892/00347	Connector
	892/00254	Hose


Fig 40. 892/00881 Valve Spool Seal Fitting Tool

Fig 41. Spool Clamps

- 992/09100 Excavator Spool Clamp
- 892/00011 Spool Clamp

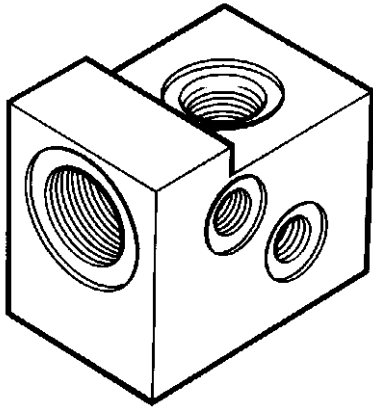


Fig 42. 892/00252 Test Block for Loader Valve A.R.V.
(214e)

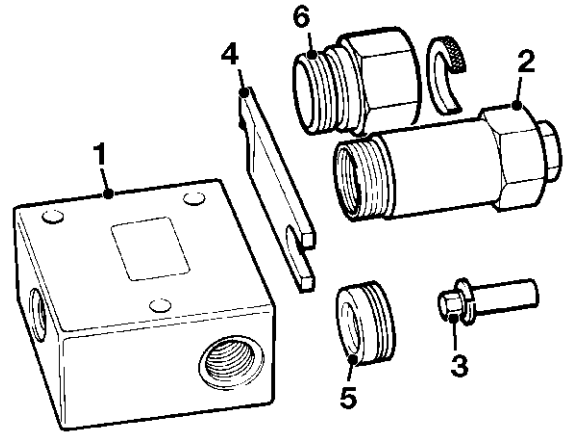


Fig 44. 892/00309 A.R.V. Pressure Test Kit

For 4CX Variable Flow machines use 25/201103

- 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

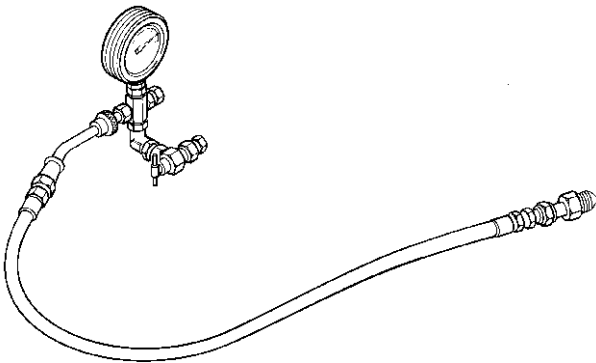


Fig 43. 892/01042 Nitrogen Charging Tool Kit

892/01043 Connector

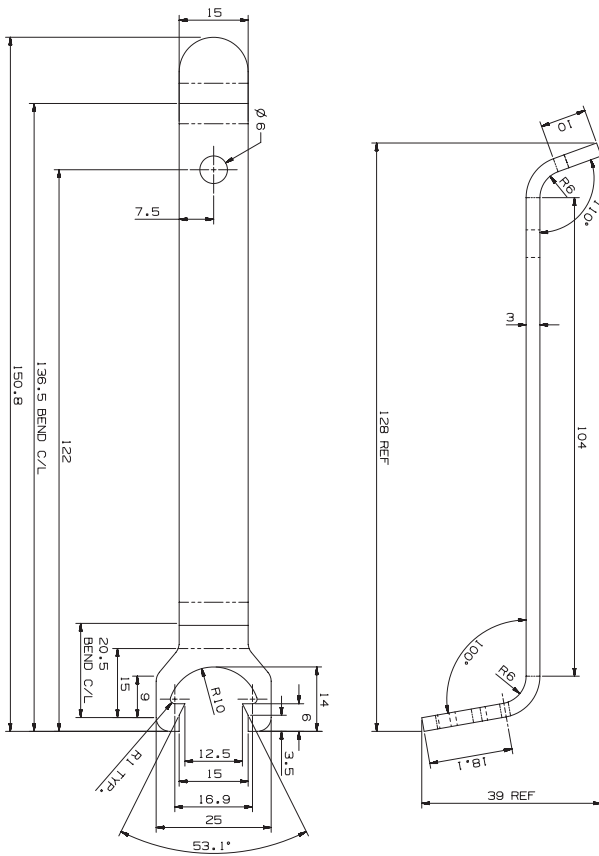
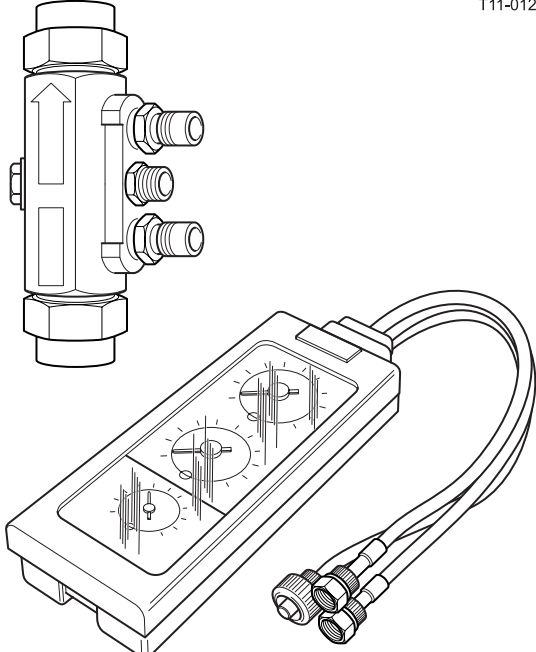


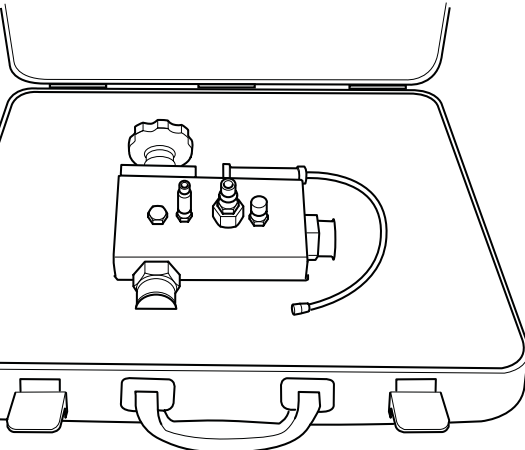
Fig 45. 825/10053 Pilot Hose Release Tool

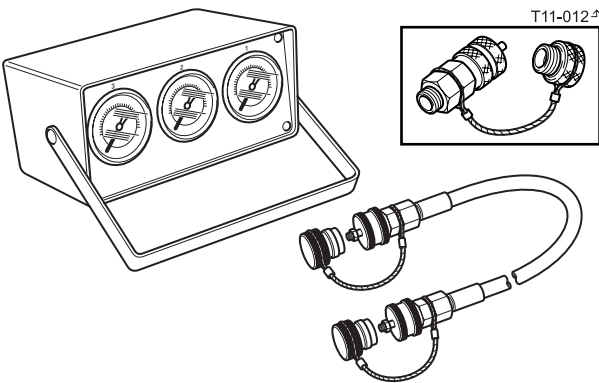
892/01043 Connector

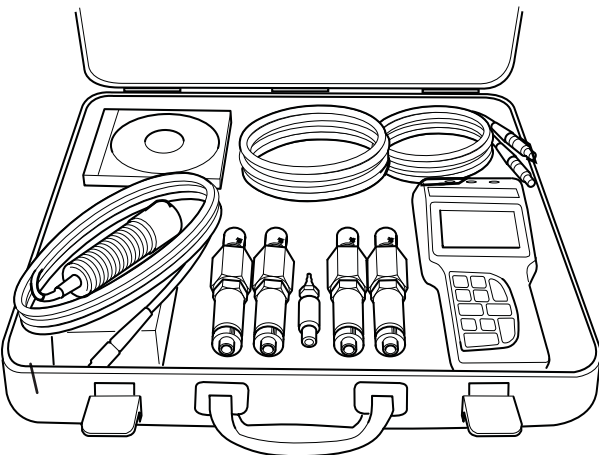
Section F

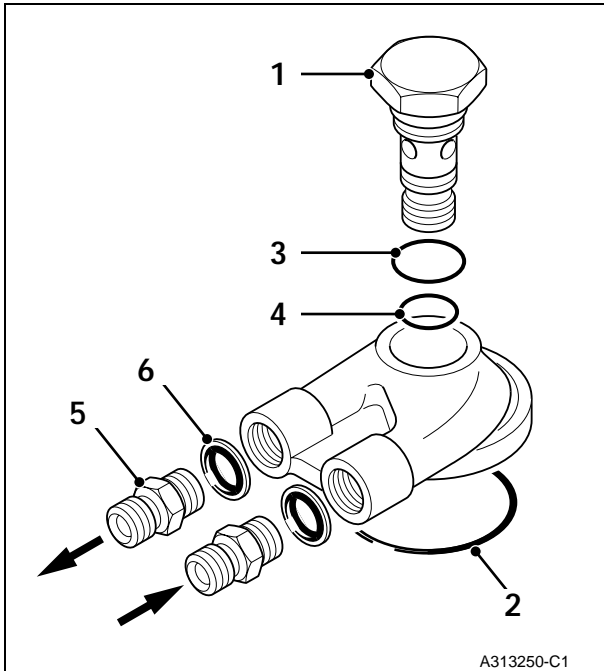
Note: Not all service tools are illustrated.

<p>Note: No longer available, refer to 998/11046 JCB ServiceMaster Flow Test Kit. → Fig 35. (□ 1-22).</p>  <p>Fig 46. Flow Test Equipment</p>	892/00268	Flow Monitoring Unit
	892/00269	Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)
	892/00273	Sensor Head 0 - 380 l/min (0 - 85.5 UK gal/min)
	892/00293	Connector Pipe
	892/00270	Load Valve
	1406/0021	Bonded Washer
	1604/0006A	Adapter 3/4 in M x 3/4 in M BSP
	1612/2054	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
	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	

 <p>Fig 47. 998/11046 JCB ServiceMaster Flow Test Kit</p>	998/11047	600 LPM Flow Turbine with Loading Valve
	998/11048	1-7/8" UNF x1 - 1/4" BSP Flow Block Adaptors x2
	998/11049	Carrying Case for Flow Test Kit
	998/11050	Temperature Sensor (125°C Max)

<p>Note: No longer available, refer to 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit. → Fig 37. (1-23).</p>  <p>Fig 48. 892/ 00253 Hydraulic Circuit Pressure Test Kit</p>	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
	892/00347	Connector - Hose to gauge

 <p>Fig 49. 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit</p>	998/11052	Hand Held 4-Channel ServiceMaster Unit
	998/11053	SensoWin Software Kit and PC Cable
	998/11054	Equipment Case SCC-750
	998/11055	0-600 Bar Pressure Transduce x2
	998/11056	0-100 Bar pressure Transducer x2
	998/11057	RPM Tachometer (includes fixed cable, 2 meters)
	998/11058	5 Meter Connecting Cable
	998/11059	M16 Metric Adaptors for Test Points x4
	998/11060	400mm Test Hose 90° HSP to M16 x2
	998/11061	400mm Test Hose Straight HSP to M16 x2

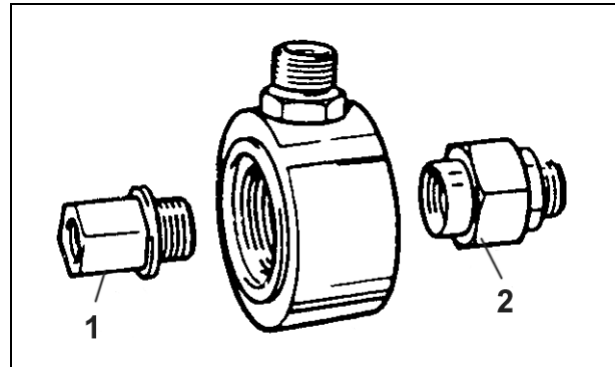


A313250-C1

Fig 50. 460/15708 Flow Test Adaptor

Note: Components listed below also required

Item	Description
1	460/15707 Banjo bolt
2	2401/0222 O-ring
3	2403/0110 O-ring
4	2403/0108 O-ring
5	1604/0004 Adaptor - 2 off
6	1406/0018 Sealing washer - 2 off



S188210-C1

Fig 51. 892/00301 Flow Test Adaptor

Note: Components listed as follows also required

Item	Description
1	892/00920 Adaptor
2	892/00302 Adaptor

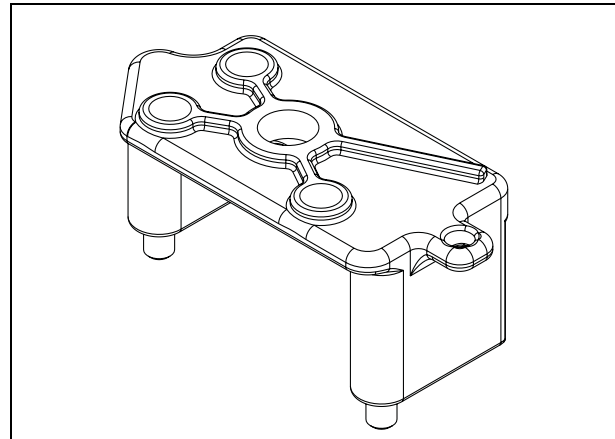


Fig 52. 332/F1311 Neutral Locking Tool



Fig 53. 892/00812 Drive Coupling Spanner

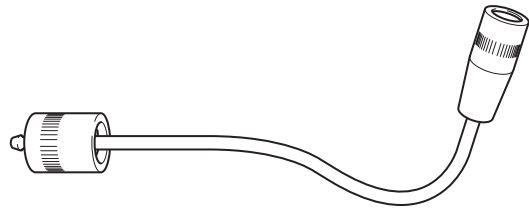


Fig 56. 892/00913 Grease Gun Attachment

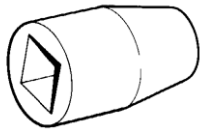


Fig 54. 892/00822 Splined Bolt Socket

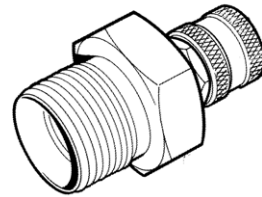


Fig 57. 892/00964 Test Point 1/8 BSP

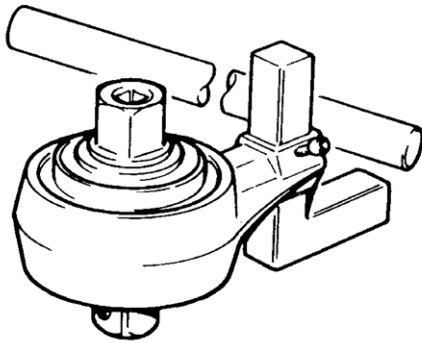


Fig 55. 992/04000 Torque Multiplier

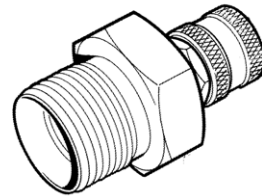


Fig 58. 892/00965 Test Point 3/8 BSP

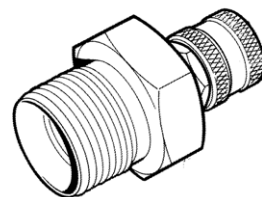
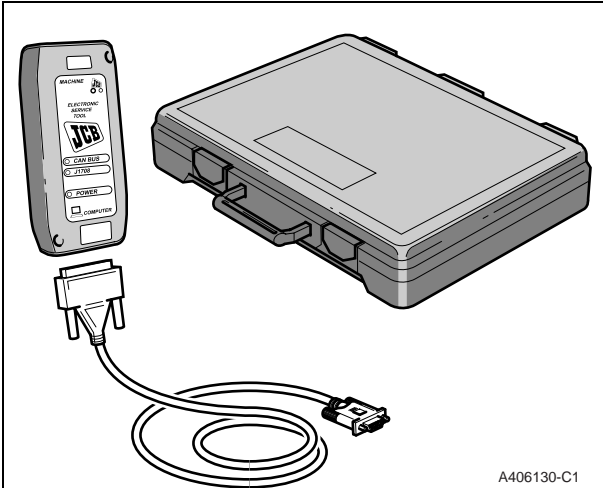


Fig 59. 892/00966 Test Point 1/4 BSP

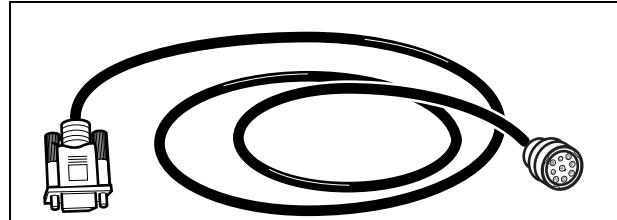


A406130-C1

Fig 60. 892/01033 Electronic Test Kit

Note: Also requires 721/10885 interconnecting cable

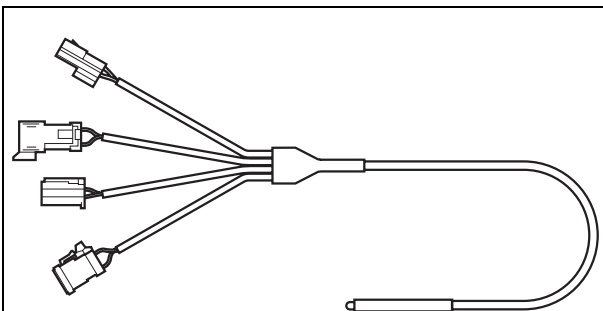
Item	Description
1	Data Link Adaptor (DLA), enables data exchange between the machine ECU (Electronic Control Unit) and laptop PC loaded with the applicable ShiftMaster diagnostics software
2	Interconnecting cable, DLA to laptop PC. Several cables are included to enable compatibility with different PC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



A406130-C2

Fig 62. 721/10885 Interconnecting Cable

Use with 892/01033



711300-C1

Fig 61. 892/01096 Speed Sensor Test Harness

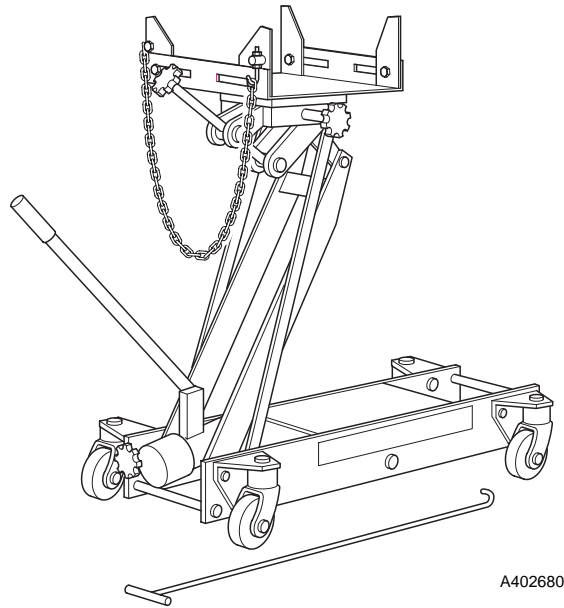


Fig 63. 892/01094 Transmission Jack

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: The jack must be used with special support plates. Manufacture the plates locally, refer to Figs 64,65 and 66.

Rear Jack Plate - 4 and 6 speed Powershift - Manufacture locally from 5 mm thick mild steel plate.

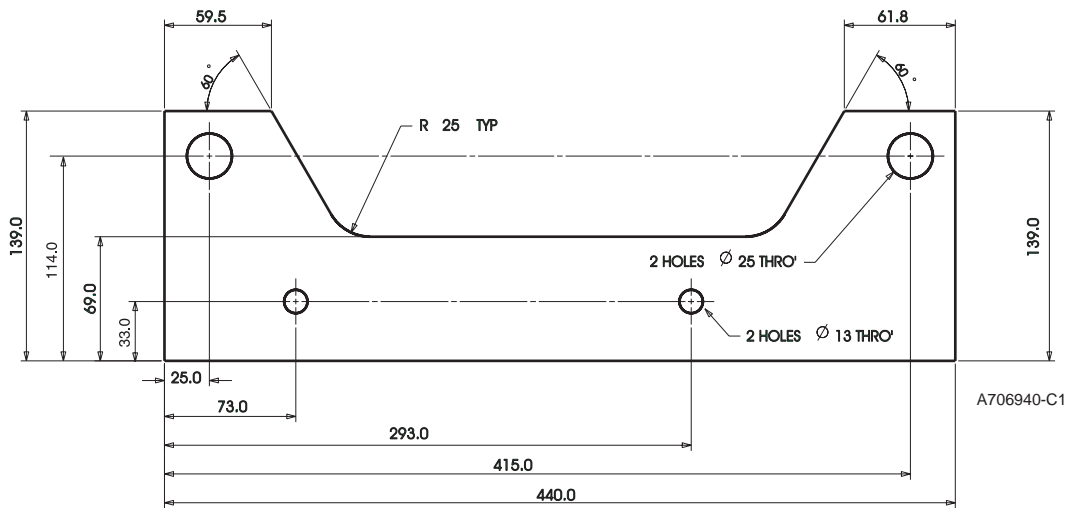


Fig 64.

Front Jack Plate - 6 speed Powershift - Manufacture locally from 5 mm thick mild steel plate.

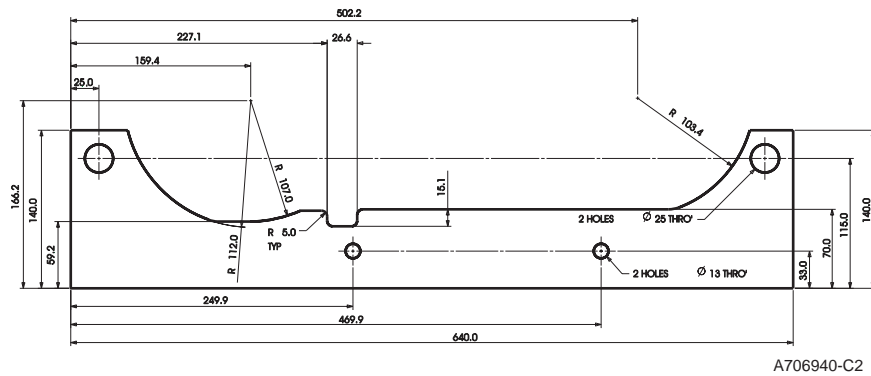


Fig 65.

Front Jack Plate - 4 speed Powershift - Manufacture locally from 5 mm thick mild steel plate.

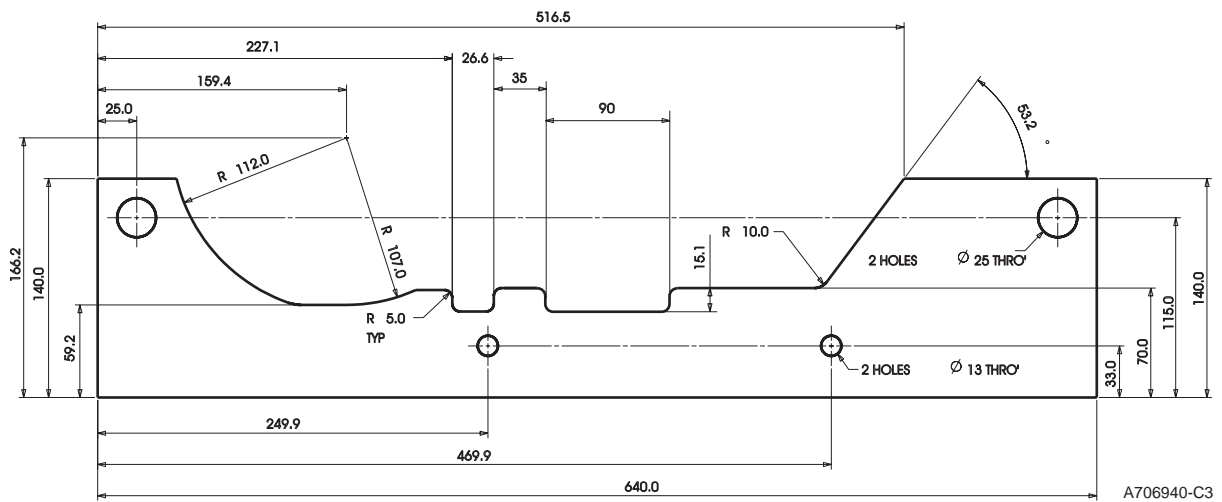
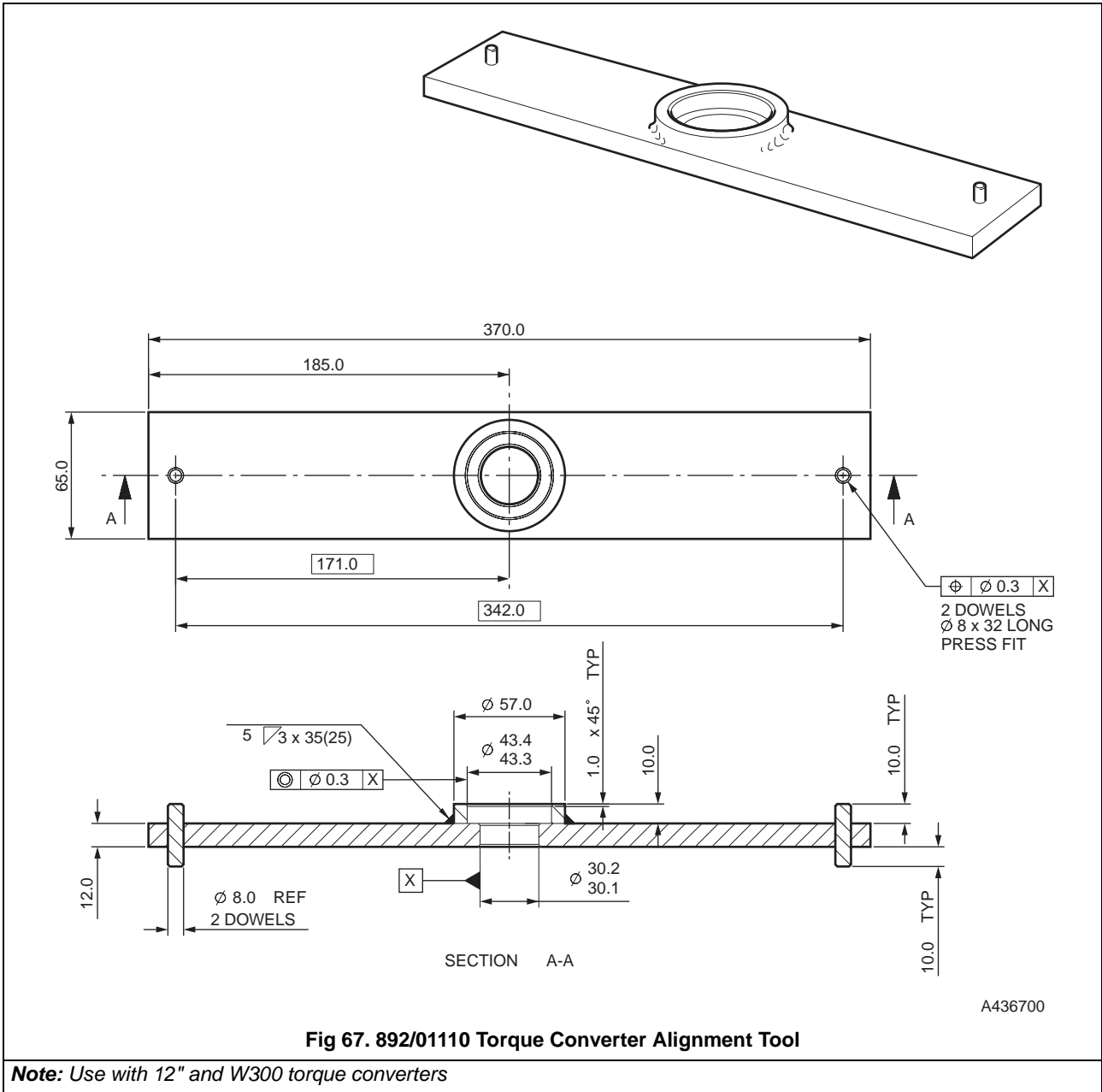


Fig 66.



Section H

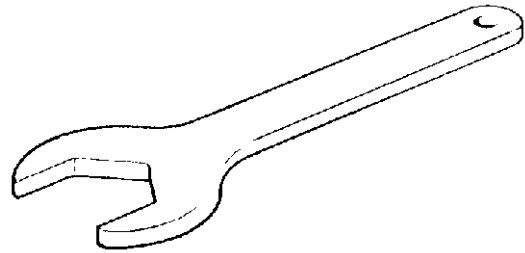
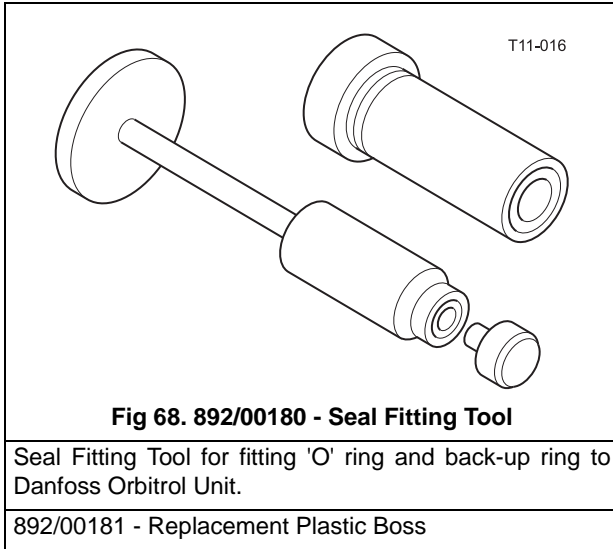


Fig 69. Hexagon Spanners

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

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