

Skid Steer Large Platform

Service Manual - Skid Steer Large Platform

| | | |
|-----------|--|-----------------|
| 9803/9950 | Robot 260W, 280W, 300W, 330W, 260T, 300T, 320T | 1745010 Onwards |
|-----------|--|-----------------|



Publication No.
9803/9950-1



Copyright © 2004 JCB SERVICE. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB SERVICE.

Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591300 Fax +44 1889 591400

World Class
Customer Support

Notes:

Section 1



General Information

Service Manual - Skid Steer Large Platform

[Section 1 - General Information](#)

[Section 2 - Care and Safety](#)

[Section 3 - Maintenance](#)

[Section A - Attachments](#)

[Section B - Body and Framework](#)

[Section C - Electrics](#)

[Section E - Hydraulics](#)

[Section F - Transmission](#)

[Section J - Tracks](#)

[Section K - Engine](#)



Publication No.
9803/9950-1



Copyright © 2004 JCB SERVICE. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB SERVICE.

Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591300 Fax +44 1889 591400

World Class
Customer Support

Notes:



Section 1 - General Information

| Contents | Page No. |
|--|-----------------|
| Introduction | |
| About this Publication | 1-1 |
| Machine Model and Serial Number | 1-1 |
| Using the Service Manual | 1-1 |
| Section Numbering | 1-1 |
| Left Side, Right Side | 1-2 |
| Cab/Canopy | 1-2 |
| Machine Description | 1-3 |
| The JCB Skid Steer Loader | 1-3 |
| Intended Use | 1-3 |
| Component Locations | 1-3 |
| Identifying Your Machine | 1-5 |
| Machine Identification Plate | 1-5 |
| Component Identification | 1-6 |
| ROPS and FOPS | 1-7 |
| Torque Settings | |
| Zinc Plated Fasteners and Dacromet Fasteners | 1-9 |
| Introduction | 1-9 |
| Bolts and Screws | 1-9 |
| Hydraulic Connections | 1-13 |
| 'O' Ring Face Seal System | 1-13 |
| Service Tools | |
| Numerical List | 1-15 |
| Tool Detail Reference | 1-17 |
| Section B - Frame and Bodywork | 1-17 |
| Section C - Electrics | 1-21 |
| Section E - Hydraulics | 1-22 |
| Section K - Engine | 1-26 |
| Service Aids | |
| Sealing and Retaining Compounds | 1-27 |



Section 1 - General Information

Contents

Page No.

Introduction

About this Publication

Machine Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

- 260W, 280W, 300W, 330W, 260T, 300T, 320T from serial number 1745010.

Using the Service Manual

T11-004

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

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

The illustrations in this publication are for guidance only. Where the machines differ, the text and/or the illustration will specify.

General warnings in Section 2 are repeated throughout the manual, as well as specific warnings. Read all safety statements regularly, so you do not forget them.

Renewal of oil seals, gaskets, etc., and any component showing obvious signs of wear or damage is expected as a matter of course. It is expected that components will be cleaned and lubricated where appropriate, and that any opened hose or pipe connections will be blanked to prevent excessive loss of hydraulic fluid and ingress of dirt.

Where a torque setting is given as a single figure it may be varied by plus or minus 3%. Torque figures indicated are for dry threads, hence for lubricated threads may be reduced by one third.

The manufacturer's policy is one of continuous improvement. The right to change the specification of the machine without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the machine and the descriptions contained in this publication.

Finally, please remember above all else safety must come first!

Section Numbering

T11-005

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

- 1** General Information - includes torque settings and service tools.
- 2** Care and Safety - includes warnings and cautions pertinent to aspects of workshop procedures etc.
- 3** Maintenance - includes service schedules and recommended lubricants for all the machine.

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

- A** Attachments
- B** Body and Framework, etc.

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

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.

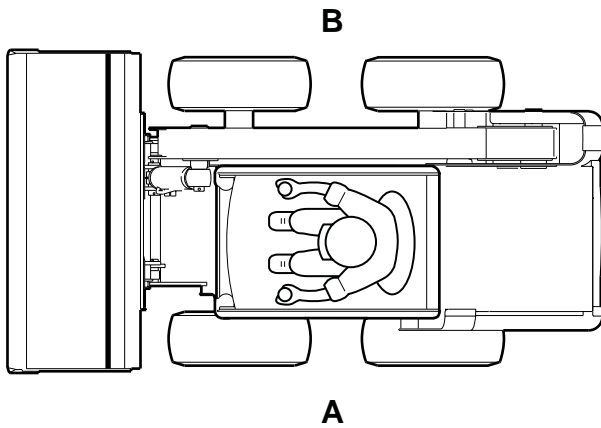


Fig 1.

T055600-2

Cab/Canopy

T1-003_2

This manual frequently makes references to the cab. For instance, 'do not operate the machine without a manual in the cab'. It should be noted that these statements also apply to canopy build machines.



Machine Description

The JCB Skid Steer Loader

P12-1004

The Skid Steer Loader is a self propelled skid steer machine fitted with either wheels or tracks. The main structural support is designed to carry a front mounted carriage onto which a shovel or an approved attachment can be fitted.

Note: The illustration(s) show a typical machine model; your machine may look different from the model shown.

Intended Use

The machine is intended to be used under normal conditions for the applications described in this manual. If the machine is used for other purposes or in dangerous environments, for example in a flammable atmosphere or in areas with dust containing asbestos, special safety regulations must be followed and the machine must be equipped for use in these environments.

When used normally with a shovel fitted, the machine loads or excavates through forward motion of the machine and lifts, transports and discharges material.

This machine is not intended for object handling.

Component Locations

- 1 ROPS/FOPS Cab
- 2 Fuel Tank
- 3 Loader Arm
- 4 Front Working Lights
- 5 Quickhitch
- 6 Rubber Tracks
- 7 Battery
- 8 Hydraulic Tank
- 9 Hydraulic Sight Glass
- 10 Engine Compartment Rear Door
- 11 Engine Top Cover

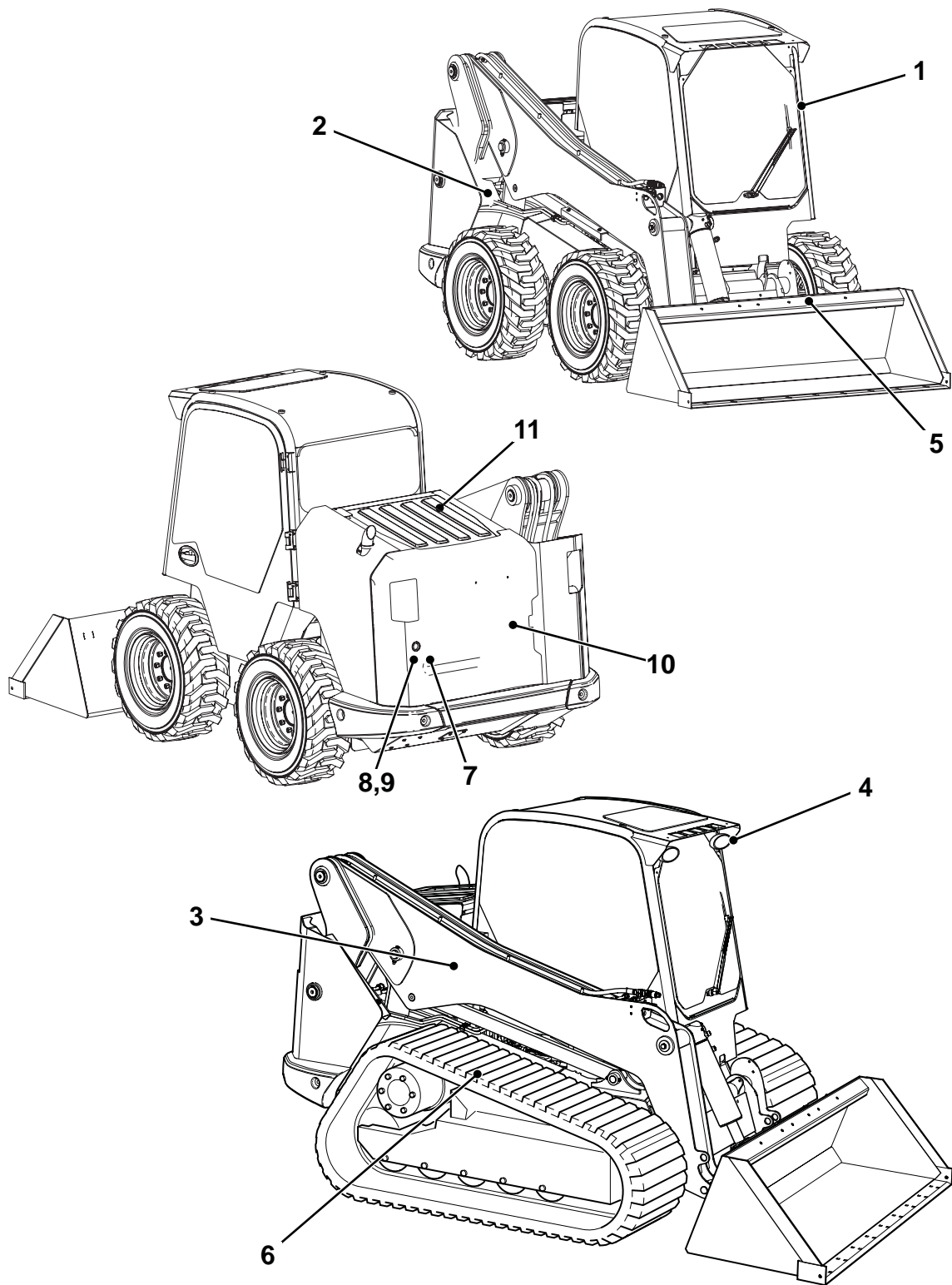


Fig 2.

T054330

Identifying Your Machine

Machine Identification Plate

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

Note: The machine model and build specification is indicated by the PIN. Refer to **Typical Product Identification Number (PIN)**.

The serial number of each major unit is also stamped on the unit itself. If a major unit is replaced by a new one, the serial number on the identification plate will be wrong. Either stamp the new number of the unit on the identification plate, or simply stamp out the old number. This will prevent the wrong unit number being quoted when replacement parts are ordered.

The machine and engine serial numbers can help identify exactly the type of equipment you have.

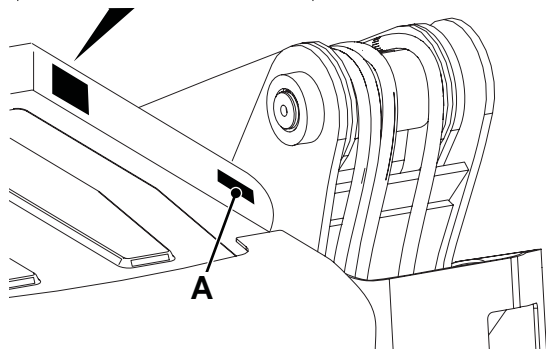
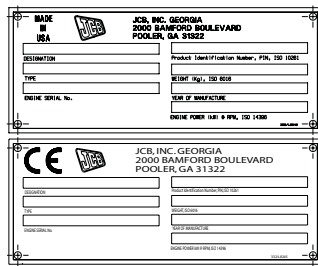


Fig 3.

The serial number is also permanently stamped into the chassis at position A.

Typical Product Identification Number

The Product Identification Number (PIN), weight, engine power, year of manufacture and serial number of the machine are stamped on the identification plate.

| 1 | 2 | 3 | 4 |
|-----|-------|---|----------|
| GEO | 260WS | H | 01745010 |

- 1 World Manufacturer Identification (3 Digits).

JCB = UK Build.

GEO = USA Build

- 2 Machine Type and Model (5 Digits).

260 = 260

W = Wheeled

T = Tracked

S = Standard Flow

H = High Flow

- 3 Randomly Generated Check Letter

- 4 Machine Serial Number 01745010

Component Identification

Typical Engine Identification Number

T1-050

Engine data labels **A** are located on the cylinder block at position **C** and rocker cover **D** (if fitted). → [Fig 4.](#) ([1-6](#)). The data label contains important engine information and includes the engine identification number **E**.

A typical engine identification number is explained as follows:

SD 320/40001 U 00001 04
1 2 3 4 5

1 Engine Type

S = 4.4 litre series.

JCB Dieselmax (Tier 3)

D = Turbocharged

E = Electronic common rail fuel injection

F = Turbocharged and after-cooled

2 Engine part number

3 Country of manufacture

U = United Kingdom

4 Engine Serial Number

5 Year of Manufacture

The last three parts of the engine identification number are stamped on the cylinder block at position **B**.

U 00001 04

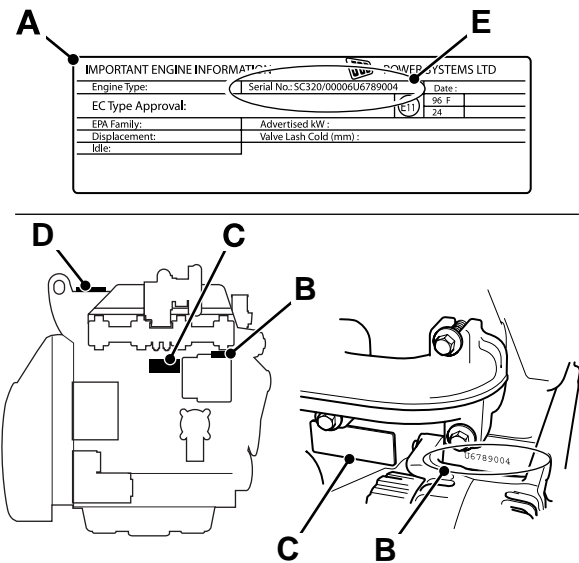


Fig 4. Engine

C007820-C2

ROPS and FOPS

WARNING

You could be killed or seriously injured if you operate a machine with a damaged or missing ROPS/FOPS. If the Roll Over Protection Structure (ROPS)/Falling Objects Protection Structure (FOPS) 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/FOPS certification.

INT-2-1-9_6

WARNING

Seat Belts

The ROPS/FOPS 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.

0153

Machines built to ROPS standards have an identification label fitted inside cab, below the operator seat.

A bolt on falling object guard is available which also carries a certified label fitted to the guard. [⇒ FOPS Data Plate \(1-7\)](#).

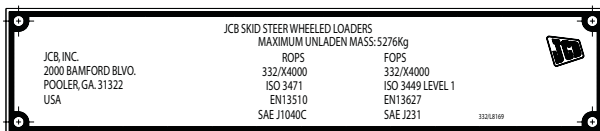


Fig 5. Level 1 Label - Wheeled

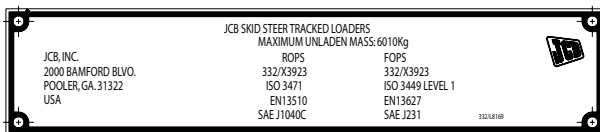


Fig 6. Level 1 Label - Tracked

FOPS Data Plate

WARNING

Do not use the machine if the falling objects protection level provided by the structure is not sufficient for the application. Falling objects can cause serious injury.

8-2-8-17

If the machine is used in any application where there is a risk of falling objects then a falling-objects protective structure (FOPS) must be installed. For further information contact your JCB Dealer

The falling objects protection structure (FOPS) is fitted with a dataplate. The dataplate indicates what level protection the structure provides.

There are two levels of FOPS:

- **Level I Impact Protection** - impact strength for protection from small falling objects (e.g. bricks, small concrete blocks, hand tools) encountered in operations such as highway maintenance, landscaping and other construction site services.
- **Level II Impact Protection** - impact strength for protection from heavy falling objects (e.g. trees, rocks) for machines involved in site clearing, overhead demolition or forestry.

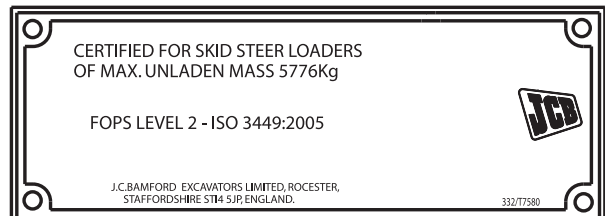


Fig 7. Level 2 Label



Section 1 - General Information

Introduction

Identifying Your Machine

Page left intentionally blank

Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

T11-002

Introduction

Some external fasteners on JCB machines are manufactured 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. ⇒ [Table 1. Fastener Types](#) (1-9).

Table 1. Fastener Types

| Fastener Type | Colour | Part No. Suffix |
|-----------------|-----------------------|-----------------------|
| 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 fastener.

Note: A Dacromet bolt should not be used in conjunction with a Zinc or Yellow plated nut, as this could change the torque characteristics of the torque setting further. For the same reason, a Dacromet nut should not be used with a Zinc or Yellow plated bolt.

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

Note: Dacromet bolts, due to their high corrosion resistance are used in areas where rust could occur. Dacromet bolts are only used for external applications. They are not used in applications such as gearbox or engine joint seams or internal applications.

Bolts and Screws

Use the following torque setting tables only where no torque setting is specified in the text.

Note: Dacromet fasteners are lubricated as part of the plating process, do not lubricate.

Torque settings are given for the following conditions:

Condition 1

- Un-lubricated fasteners
- Zinc fasteners
- Yellow plated fasteners

Condition 2

- Zinc flake (Dacromet) fasteners
- Lubricated zinc and yellow plated fasteners
- Where there is a natural lubrication. For example, cast iron components

Verbus Ripp Bolts

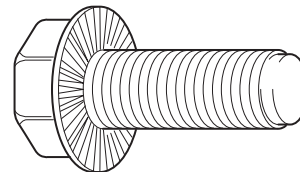


Fig 8.

Torque settings for these bolts are determined by the application. Refer to the relevant procedure for the required settings.



Section 1 - General Information

Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

Table 2. Torque Settings - UNF Grade 'S' Fasteners

| Bolt Size | | Hexagon (A/F) | Condition 1 | | | Condition 2 | | |
|-----------|------|---------------|-------------|-------|--------|-------------|-------|--------|
| in. | mm | in. | Nm | kgf m | lbf ft | Nm | kgf m | lbf ft |
| 1/4 | 6.3 | 7/16 | 11.2 | 1.1 | 8.3 | 10.0 | 1.0 | 7.4 |
| 5/16 | 7.9 | 1/2 | 22.3 | 2.3 | 16.4 | 20.0 | 2.0 | 14.7 |
| 3/8 | 9.5 | 9/16 | 40.0 | 4.1 | 29.5 | 36.0 | 3.7 | 26.5 |
| 7/16 | 11.1 | 5/8 | 64.0 | 6.5 | 47.2 | 57.0 | 5.8 | 42.0 |
| 1/2 | 12.7 | 3/4 | 98.0 | 10.0 | 72.3 | 88.0 | 9.0 | 64.9 |
| 9/16 | 14.3 | 13/16 | 140.0 | 14.3 | 103.2 | 126.0 | 12.8 | 92.9 |
| 5/8 | 15.9 | 15/16 | 196.0 | 20.0 | 144.6 | 177.0 | 18.0 | 130.5 |
| 3/4 | 19.0 | 1 1/8 | 343.0 | 35.0 | 253.0 | 309.0 | 31.5 | 227.9 |
| 7/8 | 22.2 | 1 15/16 | 547.0 | 55.8 | 403.4 | 492.0 | 50.2 | 362.9 |
| 1 | 25.4 | 1 1/2 | 814.0 | 83.0 | 600.4 | 732.0 | 74.6 | 539.9 |
| 1 1/8 | 31.7 | 1 7/8 | 1181.0 | 120.4 | 871.1 | 1063.0 | 108.4 | 784.0 |
| 1 1/4 | 38.1 | 2 1/4 | 1646.0 | 167.8 | 1214.0 | 1481.0 | 151.0 | 1092.3 |

Table 3. Torque Settings - Metric Grade 8.8 Fasteners

| Bolt Size | | Hexagon (A/F) | Condition 1 | | | Condition 2 | | |
|-------------------|----|---------------|-------------|-------|--------|-------------|-------|--------|
| ISO Metric Thread | mm | mm | Nm | kgf m | lbf ft | Nm | kgf m | lbf ft |
| M5 | 5 | 8 | 5.8 | 0.6 | 4.3 | 5.2 | 0.5 | 3.8 |
| M6 | 6 | 10 | 9.9 | 1.0 | 7.3 | 9.0 | 0.9 | 6.6 |
| M8 | 8 | 13 | 24.0 | 2.4 | 17.7 | 22.0 | 2.2 | 16.2 |
| M10 | 10 | 17 | 47.0 | 4.8 | 34.7 | 43.0 | 4.4 | 31.7 |
| M12 | 12 | 19 | 83.0 | 8.5 | 61.2 | 74.0 | 7.5 | 54.6 |
| M16 | 16 | 24 | 205.0 | 20.9 | 151.2 | 184.0 | 18.8 | 135.7 |
| M20 | 20 | 30 | 400.0 | 40.8 | 295.0 | 360.0 | 36.7 | 265.5 |
| M24 | 24 | 36 | 690.0 | 70.4 | 508.9 | 621.0 | 63.3 | 458.0 |
| M30 | 30 | 46 | 1372.0 | 139.9 | 1011.9 | 1235.0 | 125.9 | 910.9 |
| M36 | 36 | 55 | 2399.0 | 244.6 | 1769.4 | 2159.0 | 220.0 | 1592.4 |



Section 1 - General Information

Torque Settings

Zinc Plated Fasteners and Dacromet Fasteners

Table 4. Metric Grade 10.9 Fasteners

| Bolt Size | | Hexagon (A/F) | Condition 1 | | | Condition 2 | | |
|-------------------|----|---------------|-------------|-------|--------|-------------|-------|--------|
| ISO Metric Thread | mm | mm | Nm | kgf m | lbf ft | Nm | kgf m | lbf ft |
| M5 | 5 | 8 | 8.1 | 0.8 | 6.0 | 7.3 | 0.7 | 5.4 |
| M6 | 6 | 10 | 13.9 | 1.4 | 10.2 | 12.5 | 1.3 | 9.2 |
| M8 | 8 | 13 | 34.0 | 3.5 | 25.0 | 30.0 | 3.0 | 22.1 |
| M10 | 10 | 17 | 67.0 | 6.8 | 49.4 | 60.0 | 6.1 | 44.2 |
| M12 | 12 | 19 | 116.0 | 11.8 | 85.5 | 104.0 | 10.6 | 76.7 |
| M16 | 16 | 24 | 288.0 | 29.4 | 212.4 | 259.0 | 26.4 | 191.0 |
| M20 | 20 | 30 | 562.0 | 57.3 | 414.5 | 506.0 | 51.6 | 373.2 |
| M24 | 24 | 36 | 971.0 | 99.0 | 716.9 | 874.0 | 89.1 | 644.6 |
| M30 | 30 | 46 | 1930.0 | 196.8 | 1423.5 | 1737.0 | 177.1 | 1281.1 |
| M36 | 36 | 55 | 3374.0 | 344.0 | 2488.5 | 3036.0 | 309.6 | 2239.2 |

Table 5. Metric Grade 12.9 Fasteners

| Bolt Size | | Hexagon (A/F) | Condition 1 | | | Condition 2 | | |
|-------------------|----|---------------|-------------|-------|--------|-------------|-------|--------|
| ISO Metric Thread | mm | mm | Nm | kgf m | lbf ft | Nm | kgf m | lbf ft |
| M5 | 5 | 8 | 9.8 | 1.0 | 7.2 | 8.8 | 0.9 | 6.5 |
| M6 | 6 | 10 | 16.6 | 1.7 | 12.2 | 15.0 | 1.5 | 11.1 |
| M8 | 8 | 13 | 40.0 | 4.1 | 29.5 | 36.0 | 3.7 | 26.5 |
| M10 | 10 | 17 | 80.0 | 8.1 | 59.0 | 72.0 | 7.3 | 53.1 |
| M12 | 12 | 19 | 139.0 | 14.2 | 102.5 | 125.0 | 12.7 | 92.2 |
| M16 | 16 | 24 | 345.0 | 35.2 | 254.4 | 311.0 | 31.7 | 229.4 |
| M20 | 20 | 30 | 674.0 | 68.7 | 497.1 | 607.0 | 61.9 | 447.7 |
| M24 | 24 | 36 | 1165.0 | 118.8 | 859.2 | 1048.0 | 106.9 | 773.0 |
| M30 | 30 | 46 | 2316.0 | 236.2 | 1708.2 | 2084.0 | 212.5 | 1537.1 |
| M36 | 36 | 55 | 4049.0 | 412.9 | 2986.4 | 3644.0 | 371.6 | 2687.7 |

Table 6. Torque Settings - Rivet Nut Bolts/Screws

| Bolt Size | | Nm | kgf m | lbf ft |
|-------------------|----|------|-------|--------|
| ISO Metric Thread | mm | | | |
| M3 | 3 | 1.2 | 0.1 | 0.9 |
| M4 | 4 | 3.0 | 0.3 | 2.0 |
| M5 | 5 | 6.0 | 0.6 | 4.5 |
| M6 | 6 | 10.0 | 1.0 | 7.5 |
| M8 | 8 | 24.0 | 2.5 | 18.0 |
| M10 | 10 | 48.0 | 4.9 | 35.5 |
| M12 | 12 | 82.0 | 8.4 | 60.5 |

Table 7. Torque Settings - Internal Hexagon Headed Cap Screws (Zinc)

| Bolt Size | | Nm | kgf m | lbf ft |
|-------------------|--|--------|-------|--------|
| ISO Metric Thread | | | | |
| M3 | | 2.0 | 0.2 | 1.5 |
| M4 | | 6.0 | 0.6 | 4.5 |
| M5 | | 11.0 | 1.1 | 8.0 |
| M6 | | 19.0 | 1.9 | 14.0 |
| M8 | | 46.0 | 4.7 | 34.0 |
| M10 | | 91.0 | 9.3 | 67.0 |
| M12 | | 159.0 | 16.2 | 117.0 |
| M16 | | 395.0 | 40.0 | 292.0 |
| M18 | | 550.0 | 56.0 | 406.0 |
| M20 | | 770.0 | 79.0 | 568.0 |
| M24 | | 1332.0 | 136.0 | 983.0 |

Hydraulic Connections

'O' Ring Face Seal System

Adaptors Screwed into Valve Blocks

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

Table 8. Torque Settings - BSP Adaptors

| BSP Adaptor Size | Hexagon (A/F) | Nm | kgf m | lbf ft |
|------------------|---------------|-------|-------|--------|
| in. | mm | | | |
| 1/4 | 19.0 | 18.0 | 1.8 | 13.0 |
| 3/8 | 22.0 | 31.0 | 3.2 | 23.0 |
| 1/2 | 27.0 | 49.0 | 5.0 | 36.0 |
| 5/8 | 30.0 | 60.0 | 6.1 | 44.0 |
| 3/4 | 32.0 | 81.0 | 8.2 | 60.0 |
| 1 | 38.0 | 129.0 | 13.1 | 95.0 |
| 1 1/4 | 50.0 | 206.0 | 21.0 | 152.0 |

Table 9. Torque Settings - SAE Connections

| SAE Tube Size | SAE Port Thread Size | Hexagon (A/F) | Nm | kgf m | lbf ft |
|---------------|----------------------|---------------|---------------|-------------|---------------|
| | | mm | | | |
| 4 | 7/16 - 20 | 15.9 | 20.0 - 28.0 | 2.0 - 2.8 | 16.5 - 18.5 |
| 6 | 9/16 - 18 | 19.1 | 46.0 - 54.0 | 4.7 - 5.5 | 34.0 - 40.0 |
| 8 | 3/4 - 16 | 22.2 | 95.0 - 105.0 | 9.7 - 10.7 | 69.0 - 77.0 |
| 10 | 7/8 - 14 | 27.0 | 130.0 - 140.0 | 13.2 - 14.3 | 96.0 - 104.0 |
| 12 | 1 1/16 - 12 | 31.8 | 190.0 - 210.0 | 19.4 - 21.4 | 141.0 - 155.0 |
| 16 | 1 5/16 - 12 | 38.1 | 290.0 - 310.0 | 29.6 - 31.6 | 216.0 - 230.0 |
| 20 | 1 5/8 | 47.6 | 280.0 - 380.0 | 28.5 - 38.7 | 210.0 - 280.0 |



Section 1 - General Information

Torque Settings

Hydraulic Connections

Page left intentionally blank

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.

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

details of all tools, including the content of kits and sets, refer to **Tool Detail Reference, Section 1**.

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 | See Section |
|-------------|--|-------------|
| 993/68100 | Slide Hammer Kit - see Tool Detail Reference (Section 1) for content | B |
| - | Rivet Nut Tool - see Tool Detail Reference (Section 1) | B |
| 892/00842 | Glass Lifter | B |
| 892/00843 | Folding Stand for Holding Glass | 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 |
| 926/15500 | Rubber Spacer Blocks | B |
| 992/12300 | 12V Mobile Oven | B |
| 992/12400 | 240V Static Oven (2 Cartridge) | B |
| 992/12800 | Cut-Out Knife | B |
| 992/12801 | 'L' Blades | B |
| 4104/1310 | Hand Cleaner | B |
| 892/00281 | AVO Meter (not illustrated) | C |
| 892/00298 | Fluke Meter | C |
| 892/00285 | Hyd. Oil Temperature Probe | C |
| 892/00284 | Digital Tachometer | C |
| 892/01174 | DLA Kit | C |
| - | Ram Protection Sleeves - see Tool Detail Reference (Section 1) | E |
| 892/00334 | Ram Seal Fitting Tool | E |
| | Hexagon Spanners - see Tool Detail Reference (Section 1) | E |
| 892/01027 | Piston Seal Assembly Tool | E |
| - | Hydraulic Flow Test Equipment - see Tool Detail Reference (Section 1) | E |
| - | Hydraulic Circuit Pressure Test Kit - see Tool Detail Reference (Section 1) for content | E |



Section 1 - General Information

Service Tools

Numerical List

| Part Number | Description | See Section |
|-------------|--|-------------|
| - | Hydraulic Hand Pump Equipment - see <i>Tool Detail Reference (Section 1)</i> | E |
| 992/10100 | Spool Clamp | E |
| 892/00039 | Spool Clamp | E |
| 992/02800 | ARV Extractor | E |
| 892/00346 | Gauge | E |
| 892/00279 | Gauge | E |
| 892/00280 | Gauge | E |
| 892/00347 | Connector | E |
| 892/00254 | Hose | E |
| 892/00041 | De-glazing Tool | K |

Tool Detail Reference

Section B - Frame and Bodywork

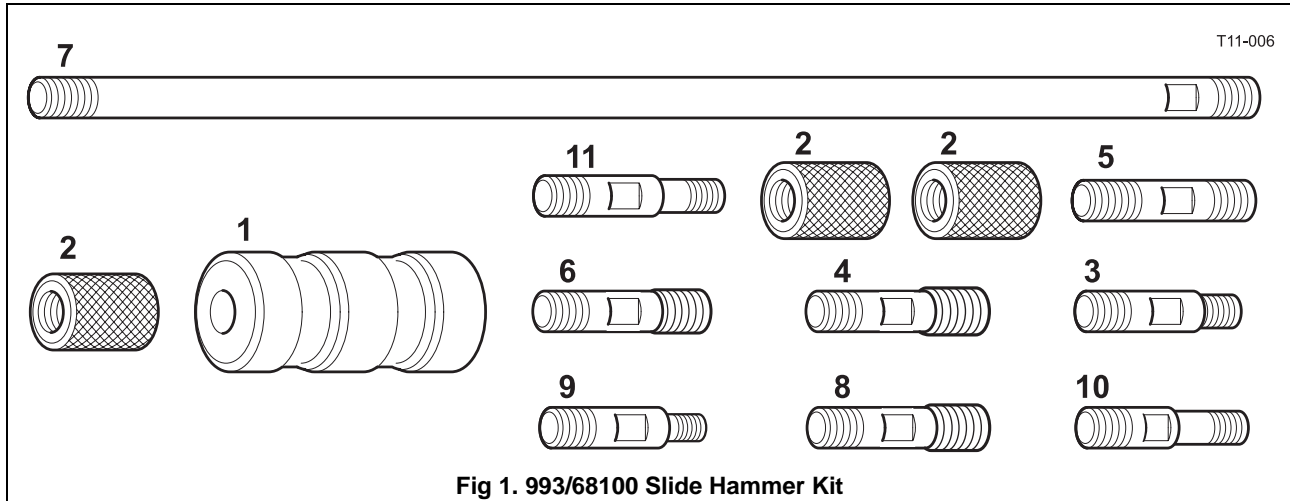


Fig 1. 993/68100 Slide Hammer Kit

| | | | | | |
|---|-----------|--------------------------|----|-----------|-------------------------------------|
| 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 | | | |

| | | | |
|---|---|------------|--|
| <p style="text-align: right;">T11-007</p> | 1 | 826/01099 | M6 x 16 mm Rivet Nut |
| | | 826/01101 | M6 x 19 mm Rivet Nut |
| | | 826/01102 | M8 x 18 mm Rivet Nut |
| | | 826/01103 | M8 x 21 mm Rivet Nut |
| | | 826/01104 | M10 x 23 mm Rivet Nut |
| | | 826/01105A | M10 x 26 mm Rivet Nut |
| | 2 | - | Installation Tool available from: Bollhoff Fastenings Ltd (www.bollhoff.com) |

Fig 2. Rivet Nut Tool

T11-008

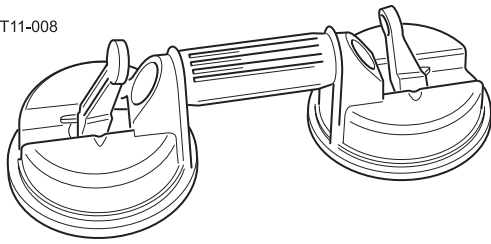


Fig 3. 892/00842 Glass Lifter

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

T11-008⁺

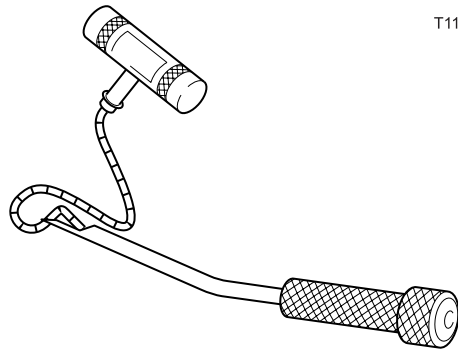


Fig 6. 892/00846 Glass Extractor (Handles)

Used with braided cutting wire to cut out broken glass.
⇒ [Fig 9. \(□ 1-19\)](#).

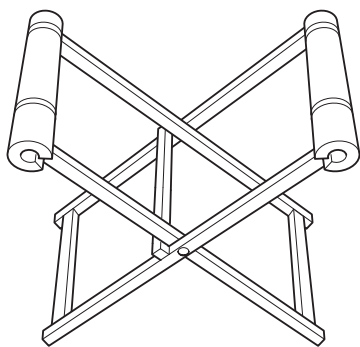


Fig 4. 892/00843 Folding Stand

Essential for preparing new glass prior to installation.

T11-008⁺

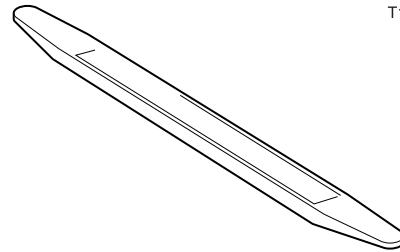


Fig 7. 892/00847 Nylon Spatula

General tool used for smoothing sealants - also used to re-install glass in rubber glazing because metal tools will chip the glass edge.

T11-008⁺

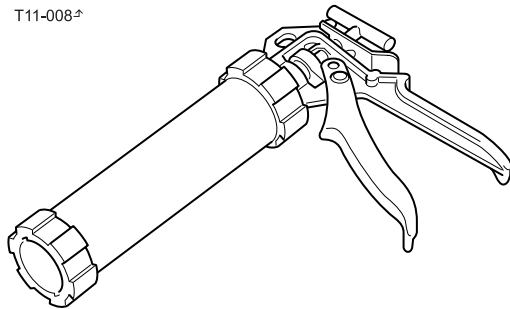


Fig 5. 892/00845 Cartridge Gun

Hand operated. Essential for the application of sealants, polyurethane materials etc.

T11-008⁺

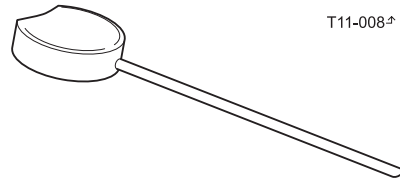
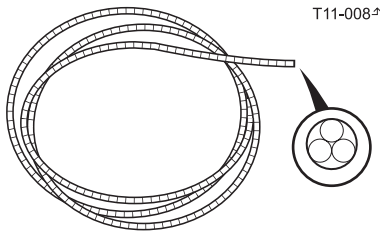


Fig 8. 892/00848 Wire Starter

Used to access braided cutting wire through original polyurethane seal. ⇒ [Fig 9. \(□ 1-19\)](#).



T11-008↗

Fig 9. 892/00849 Braided Cutting Wire

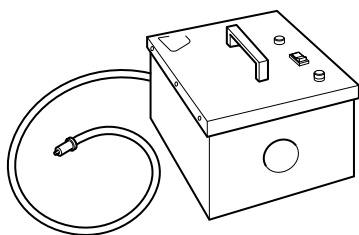
Consumable heavy duty cut-out wire used with the glass extraction tool. ⇒ [Fig 6.](#) (□ 1-18). Approx 25 m length.



T11-008↗

Fig 10. 926/15500 Rubber Spacer Blocks

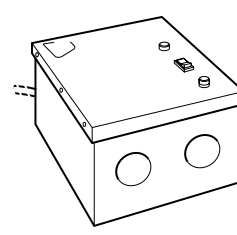
Used to provide the correct set clearance between glass edge and cab frame. Unit quantity = 500 off.



T11-008↗

Fig 11. 992/12300 Mobile Oven 12V

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).

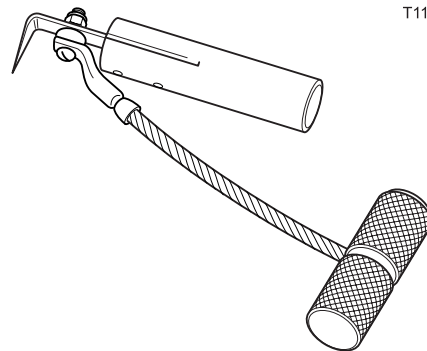


T11-008↗

Fig 12. 992/12400 Static Oven 240V

Required to pre-heat adhesive prior to use. No plug supplied.

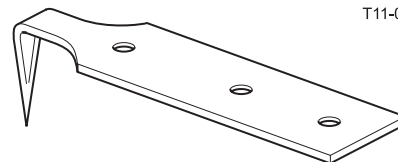
Note: 110V models available upon request - contact JCB Technical Service.



T11-008↗

Fig 13. 992/12800 Cut-Out Knife

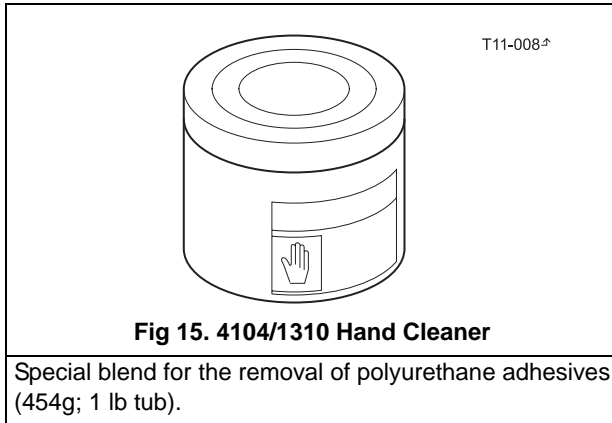
Used to remove broken glass.



T11-008↗

Fig 14. 992/12801 'L' Blades

25 mm (1 in.) cut. Replacement blades for cut-out knife. ⇒ [Fig 13.](#) (□ 1-19). Unit quantity = 5 off.



Section C - Electrics

T11-015

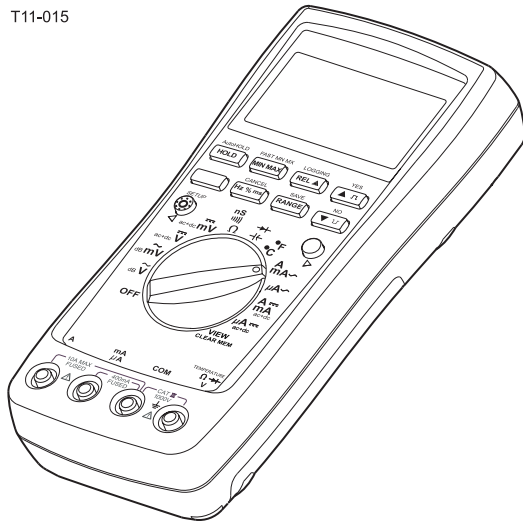


Fig 16. 892/00298 Fluke Meter

T11-015 ↗

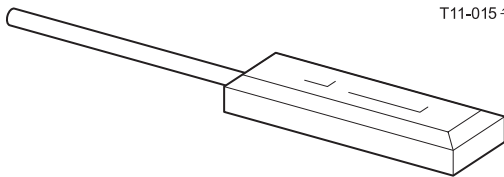


Fig 17. 892/00285 Hydraulic Temperature Probe

T11-015 ↗

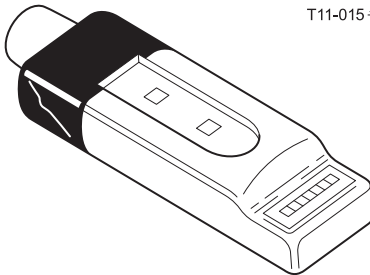


Fig 18. 892/00284 Venture Microtach Digital Tachometer

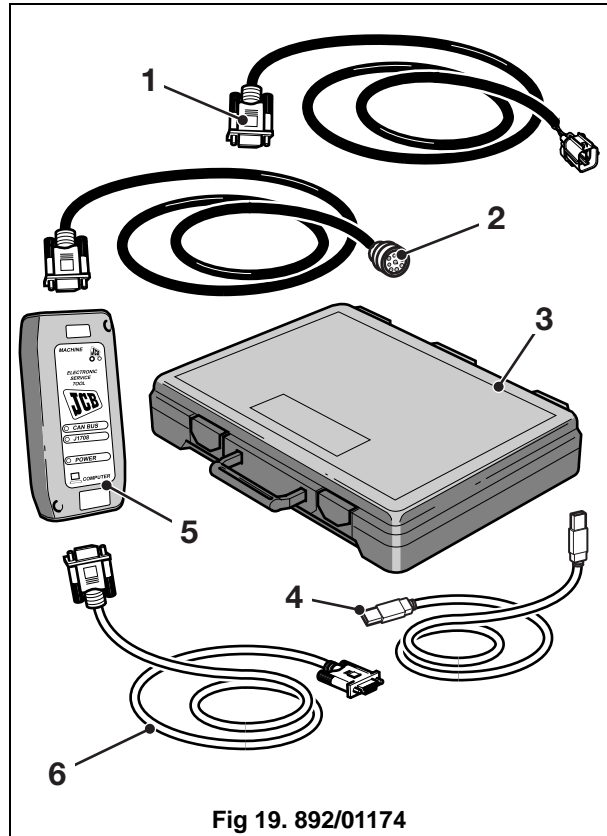
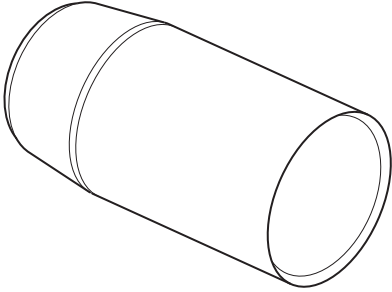
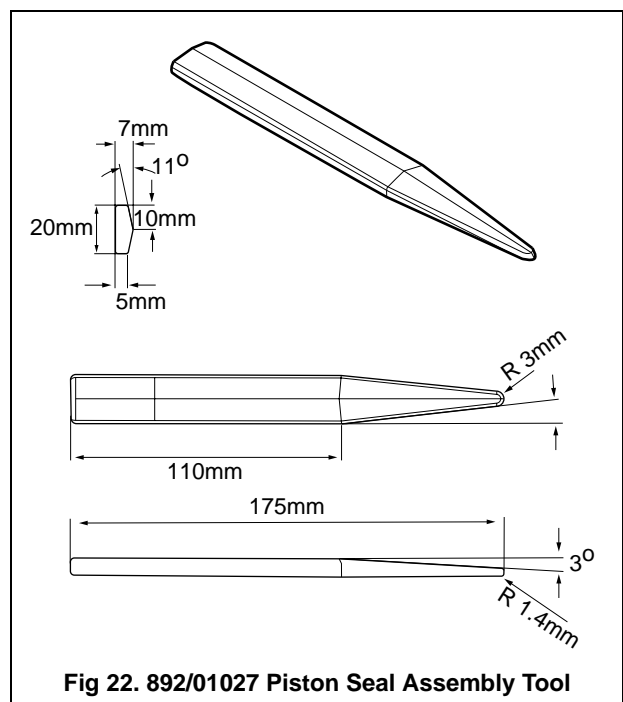
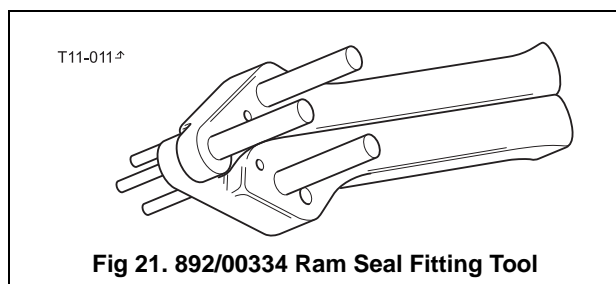


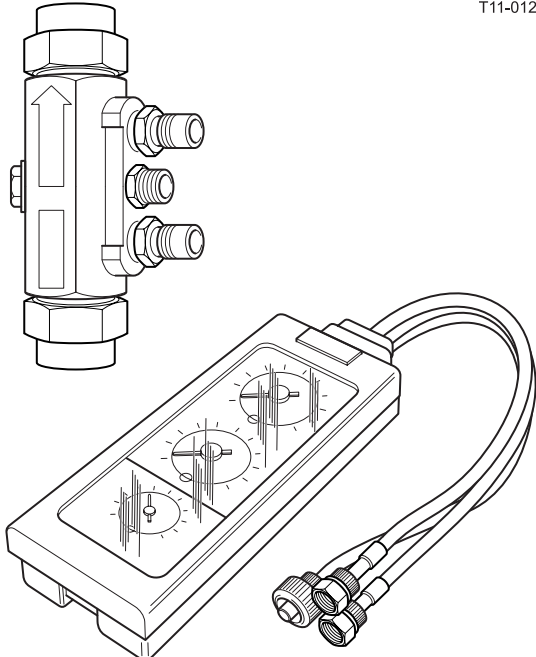
Fig 19. 892/01174

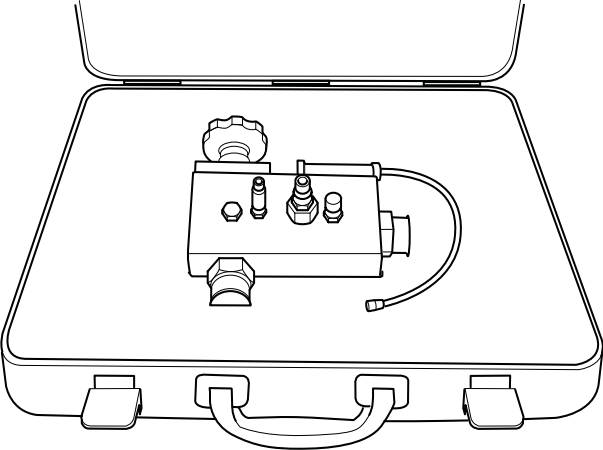
| | |
|---|---|
| 1 | Interconnecting cable, DLA to machine ECU diagnostics socket. |
| 2 | Interconnecting cable, DLA to machine ECU diagnostics socket. |
| 3 | Kit carrying case. |
| 4 | Interconnecting cable, DLA to laptop PC. |
| 5 | Data Link Adaptor (DLA), enables data exchange between the machine ECU (Electronic Control Unit) and a laptop PC loaded with the applicable diagnostics software. |
| 6 | Interconnecting cable, DLA to laptop PC. |

Section E - Hydraulics

| | | |
|--|-----------|-----------------------------------|
|  <p>Fig 20. 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 |



| | | |
|---|------------|---|
| <p>Note: No longer available, refer to 998/11046 JCB ServiceMaster Flow Test Kit. → Fig 24. (1-23).</p>  <p>T11-012</p> <p>Fig 23. 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 24. 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) |

Note: No longer available, refer to 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit. ➔ Fig 26. (1-24).

Fig 25. 892/ 00253 Hydraulic Circuit Pressure Test Kit

| | |
|-----------|--|
| 892/00201 | Replacement Gauge 0-20 bar (0-300 lbf/in ²) |
| 892/00202 | Replacement Gauge 0-40 bar (0-600 lbf/in ²) |
| 892/00203 | Replacement Gauge 0-400 bar (0-6000 lbf/in ²) |
| 892/00254 | Replacement Hose |
| 993/69800 | Seal Kit for 892/00254 (can also be used with probe 892/00706) |
| 892/00706 | Test Probe |
| 892/00347 | Connector - Hose to gauge |

Fig 26. 998/11051 JCB ServiceMaster Digital Hydraulic Datalogger Pressure Test Kit

| | |
|-----------|---|
| 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 |

T11-017

Fig 27. 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 |

This as a preview PDF file from **best-manuals.com**



Download full PDF manual at **best-manuals.com**