SERVICE MANUAL

2DXL

EN - 9813/5500 - ISSUE 1 - 01/2016

This manual contains original instructions, verified by the manufacturer (or their authorized representative).

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Foreword

The Operator's Manual

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You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator's Manual. You must understand and follow the instructions in the Operator's Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

Do not operate the machine without an Operator's Manual, or if there is anything on the machine you do not understand.

Treat the Operator's Manual as part of the machine. Keep it clean and in good condition. Replace the Operator's Manual immediately if it is lost, damaged or becomes unreadable.

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00 - General

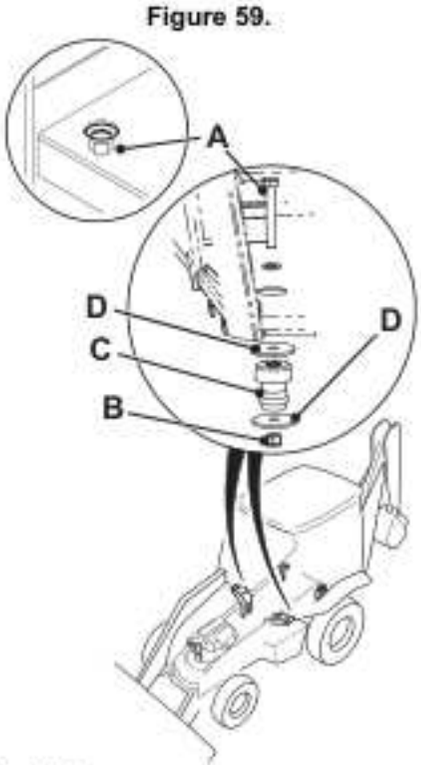
Remove and Install

Do not remove the front and rear mounts at the same time. Remove any two mounts either front or rear at any one time, as required.

Remove

1. Make the machine safe. Refer to (PIL 01-03).
2. Remove the floor mat. Refer to (PIL 09-48).
3. Remove the trim panel. Refer to (PIL 09-30).
4. Put a suitable jack between the cab frame and the machine chassis.
5. Raise the cab sufficiently to remove the mount spacers.
6. Record the positions of the cab mounts to make sure of correct replacement.
7. Use suitable supports to hold the cab.
8. Do not work below the cab which is only supported by a jack or lifting equipment.

Figure 59.



A Bolt
B Nut
C Mount
D Spacer

Install

1. The installation procedure is the opposite of the removal procedure. Additionally do the following steps.
2. If the mounts are to be replaced, make sure that the new components are identified correctly and installed in the correct positions.
3. Tighten the bolt to the correct torque value.

   Torque: 205N·m

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Introduction

Complex hydraulic components and circuits can be described to the engineer by using graphical symbols. The tables illustrate and give a brief description for some of the more common symbols used.

There are many symbols in use and it would be impossible to include them all here. However it should be noted that most are only variations or refinements on the basic principles explained here. If more detailed information is required you are recommended to obtain a copy of BS2917 or IS01219.

Once familiar with the symbols, the engineer can use hydraulic circuit diagrams as an aid to fault finding. It will be possible to see the complete hydraulic circuit and decipher the relationship between hydraulic components.

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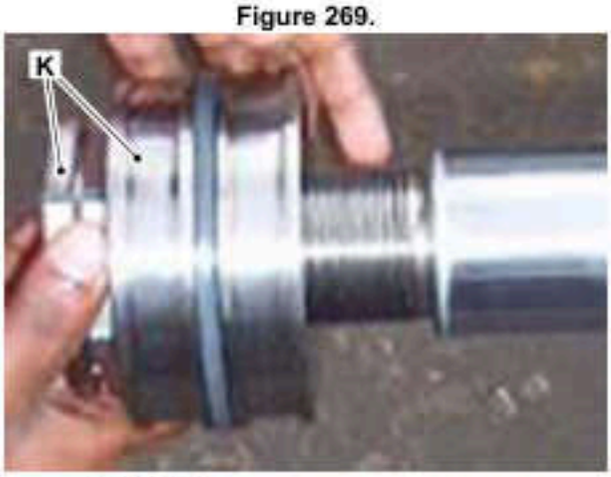
Technical Data

Table 122. Sealants Approved Product Information

Subsection	Commercial name	Product Number	Colour	Shelf life	Technical data	Comments
High strength	Loctite 275 Permabond A140	4102/0500	Green	730d	250bar torque strength (on M8)	Non drip formulation, used on larger fittings, coarse threads.
High strength	Forgeway 240FC	4102/3100	Yellow	270d	25bar breaking strength	Can be painted over with some 2 pack paint. Maximum width of joint =35mm, minimum width =2mm, minimum depth =2mm. Recommended depth of joint = width of joint.
Medium to high strength	Loctite 620	4102/3500	Green	-	172bar shear strength	Used for locating pins in radiator assemblies, sleeves into pump housings and bearings in auto transmissions. Not suitable for plastics.
Medium strength	Loctite 518	4102/2000	Red, fluorescent	365d	90bar tensile strength	Typically used as form-in-place gasket on rigid flanged connections.
Medium strength	Loctite 5182	4102/4100	Red gel, fluorescent	-	80bar shear strength	It is manufactured to minimise air bubbles in the package. Used to seal gaskets, housings, cases and covers. It can also be used to repair and replace cut gaskets (up to 0.08mm in thickness).
Medium strength	Loctite 595	4102/2500	Clear	365d	6mm gap filling	Formulated to withstand weathering and extreme temperature cycling. Used for potting, coating and sealing. Can be applied horizontal, vertical and overhead.
Medium strength	Loctite 577 Permabond A1044	4102/1900	Yellow	365d	170bar breakaway torque	A fast curing thread sealant used on coarse threads and pipe fittings up to 75mm thread size. Clearance for gap filling 0.8mm.
Medium strength	Loctite 2431	4102/2700	Blue	365d	140–340bar breakaway torque	Taper thread sealant, non-fluorescing to see oil leaks. Suitable for all taper fittings up to M36.
Low strength	Clayton Dewandre air brake sealant SC1252	4102/2200	White opaque	12h full cure	Maximum seal pressure 29bar	Seals pipes and plugs against leakage of air, fuels, lubricants and coolants. Hardens to a tough seal resistant to shock and vibration. Easily dismantled.
Low strength	Red Hermetite	4102/0800	-	-	Resistant to oil	Non-hardening paste jointing for joints regularly opened for servicing.
Low strength	Loctite 572	4102/1100	White opaque	730d	40–100bar breakaway torque	PTFE (Polytetrafluoroethylene) filler low strength sealant

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Figure 269.

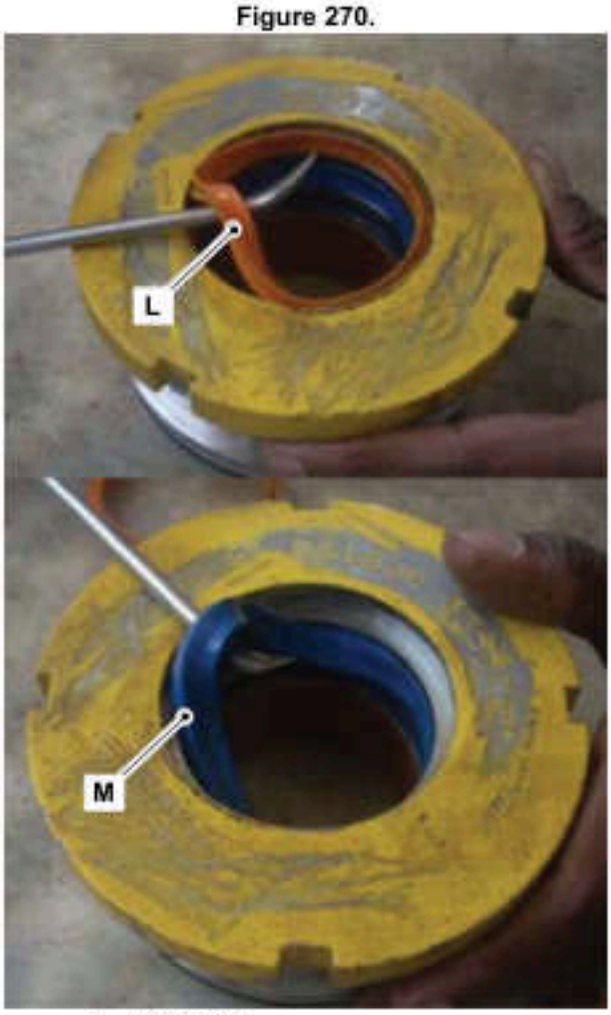


K Piston

14. Remove the head end cover. Refer to Figure 270.

15. Use a bent screwdriver to remove the wiper seal and the secondary rod seal. Refer to Figure 270.

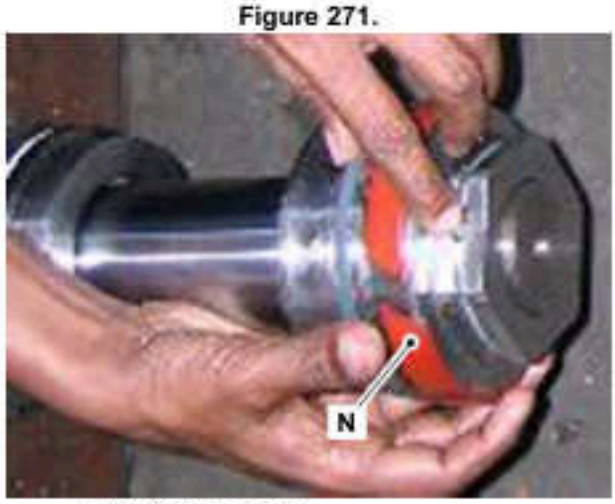
Figure 270.



L Wiper seal
M Secondary rod seal

16. Remove the piston bearing. Refer to Figure 271.

Figure 271.



N Piston bearing

17. Use a bent screwdriver to remove the piston seal. Refer to Figure 272.

Figure 272.



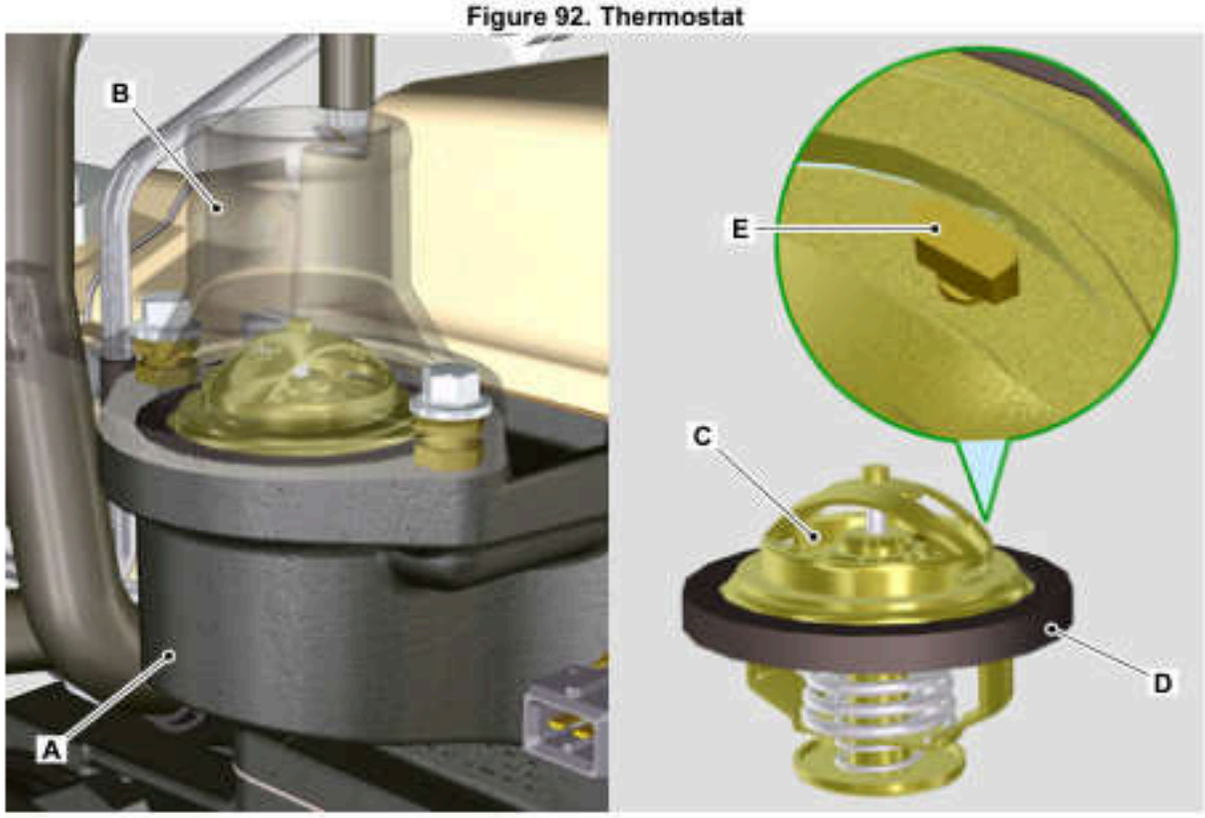
P Piston seal

18. Remove the piston O-ring and the piston backup ring. Refer to Figure 273.

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Component Identification

Figure 92. Thermostat



A Cylinder head
B Water outlet cover
C Thermostat
D Gasket
E Air bleeding hole

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