SERVICE MANUAL

BACKHOE LOADER
2DX

EN - 9813/8500 - ISSUE 2 - 09/2017

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

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Foreword

The Operator's Manual

⚠

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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Remove and Install

Special Tools

Description	Part No.	Qty.
Flange Spanner	992/04800	1

Remove

1. If installed remove the park brake caliper.
2. Bend back the stake nut locking ring.
3. Clean the brake disc and the gearbox around the brake disc. Make sure no contamination enters the gearbox when the brake disc is removed.
4. Hold the brake disc with the service tool and remove the output shaft stake nut. Discard the stake nut.

   Special Tool: Flange Spanner (Qty.: 1)
5. Remove the washer.
6. Lift off the brake disc. If necessary use a soft faced mallet to remove the brake disc.
7. Do not use a steel hammer, damage can occur to the output shaft bearing.
8. If necessary remove the oil seal. Do not damage the seal housing.

Install

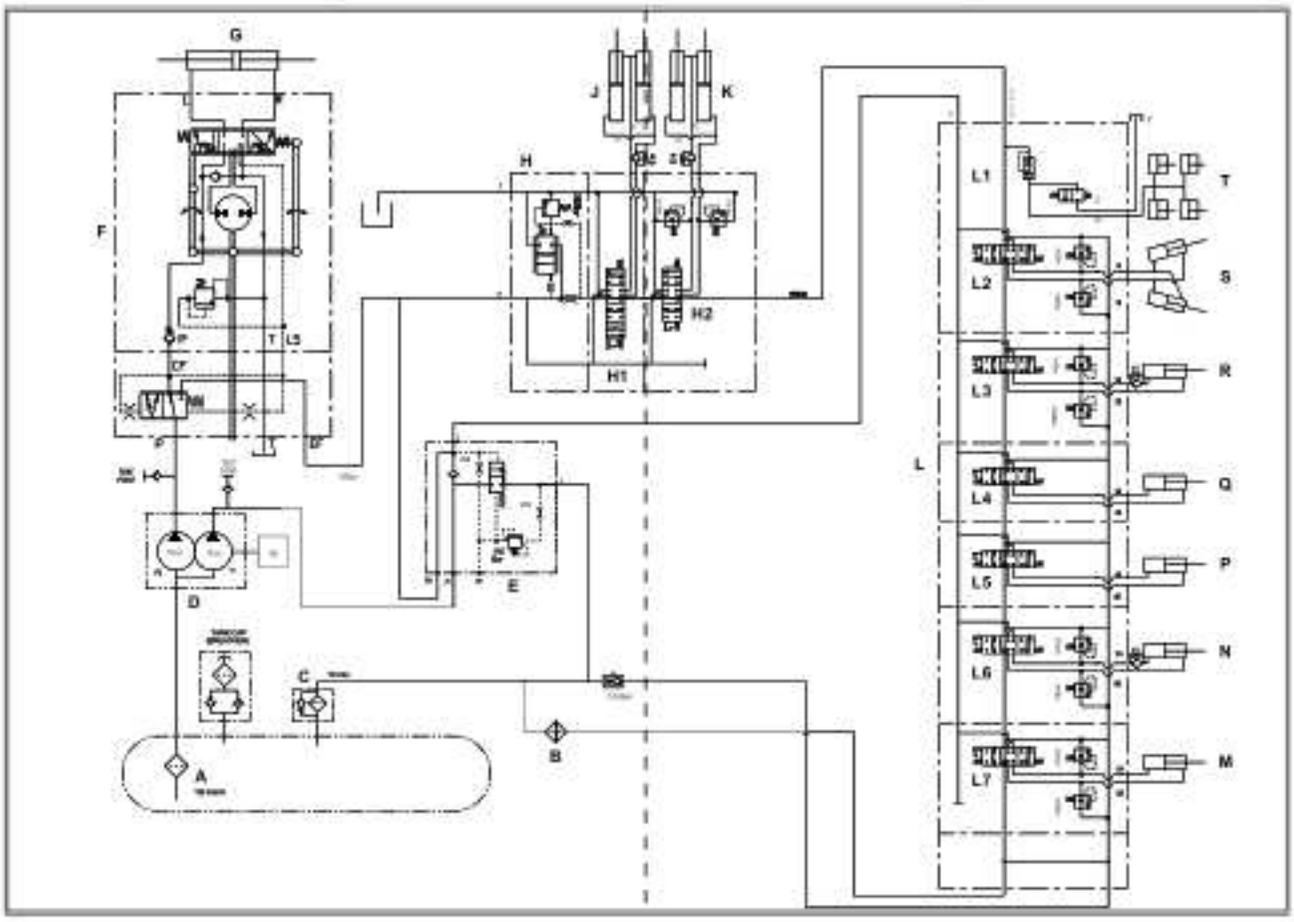
1. Make sure that the oil seal interface on the brake disc is clean and free from wear or damage.
2. If necessary install a new oil seal. Lubricate the lips of the seal.
3. Install the brake disc onto the output shaft.
4. Install the washer.
5. Hold the brake disc with the service tool.
6. Install a new stake nut.
7. Progressively tighten the nut to the correct torque value.
8. Stake the nut to the shaft with a square ended staking tool.

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Figure 324.

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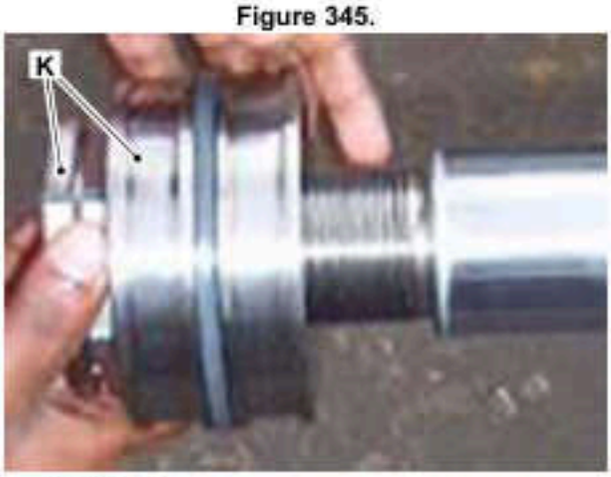
Technical Data

Table 87.

Maximum working pressure	350bar (5,072.4psi)
Maximum flow	150L/min
Setting valve 1	3.6bar (52.2psi) cracking pressure
Setting valve 2	155bar (2,246.4psi)

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Figure 345.

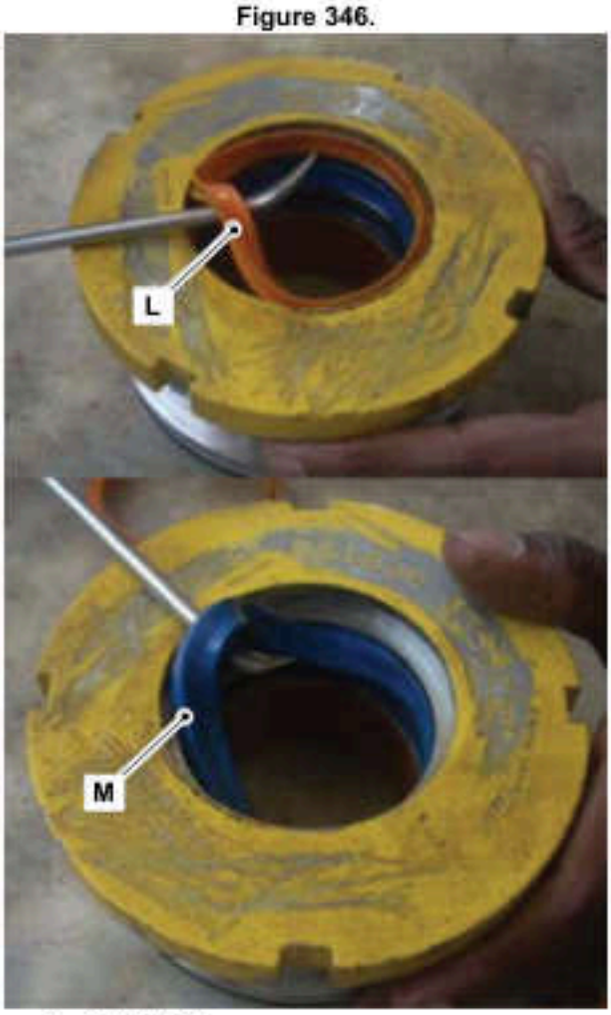


K Piston

14. Remove the head end cover. Refer to Figure 346.

15. Use a bent screwdriver to remove the wiper seal and the secondary rod seal. Refer to Figure 346.

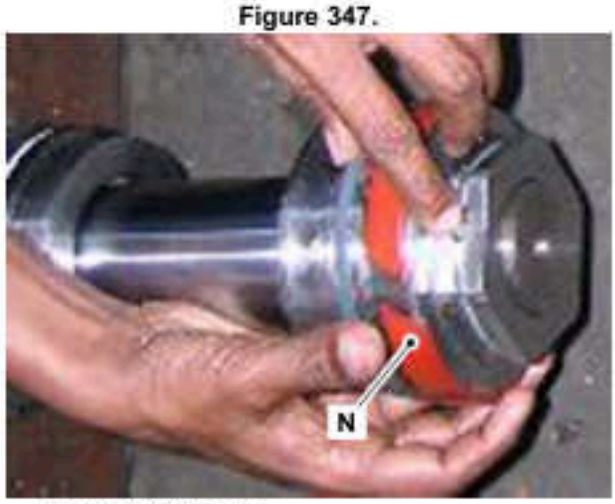
Figure 346.



L Wiper seal
M Secondary rod seal

16. Remove the piston bearing. Refer to Figure 347.

Figure 347.



N Piston bearing

17. Use a bent screwdriver to remove the piston seal. Refer to Figure 348.

Figure 348.



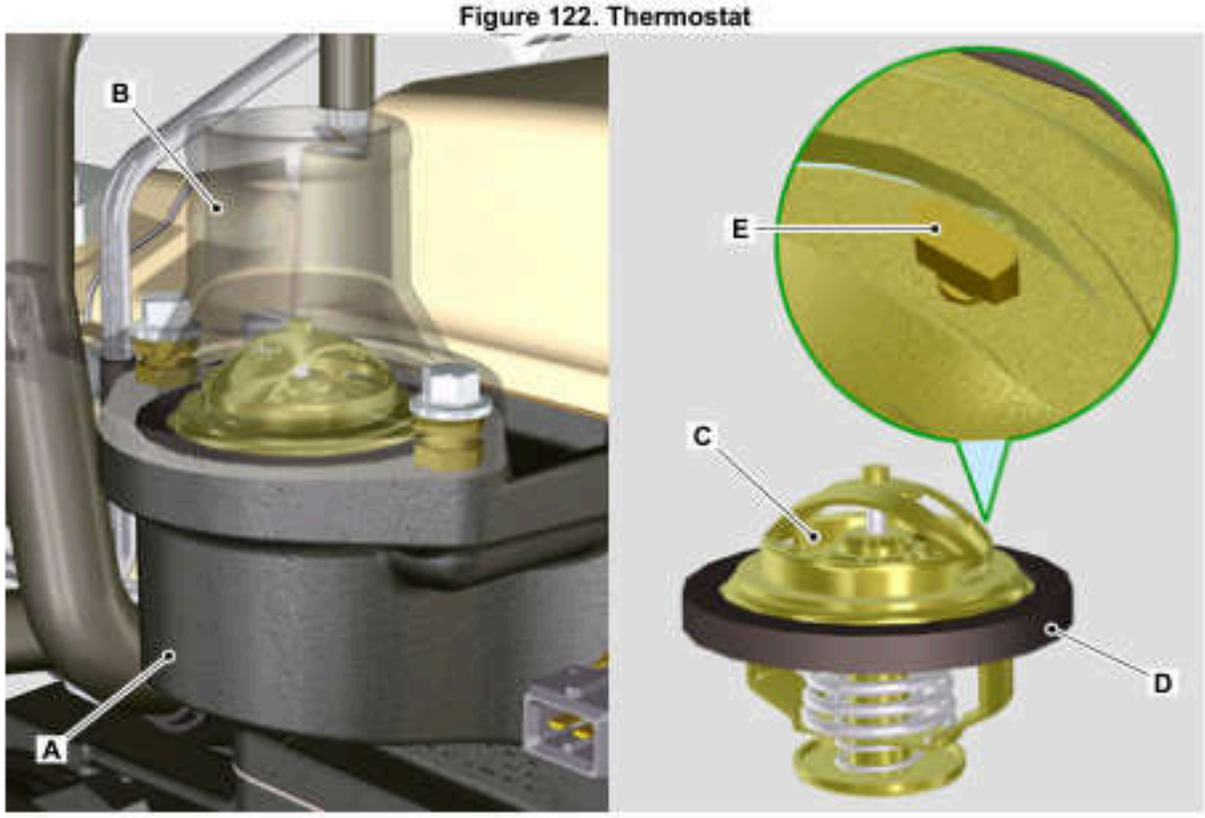
P Piston seal

18. Remove the piston O-ring and the piston backup ring. Refer to Figure 349.

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Component Identification

Figure 122. Thermostat



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

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