SERVICE MANUAL

EXCAVATOR

JS140, JS200, JS205, JS215

EN - 9813/0400 - ISSUE 7 - 02/2018

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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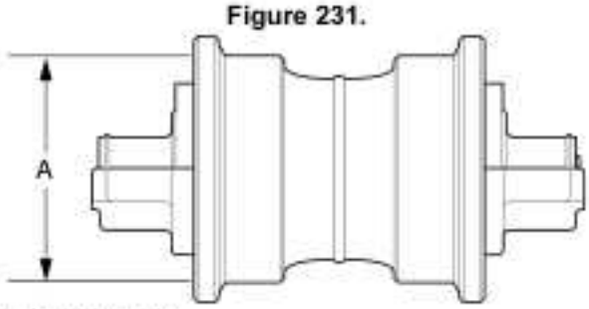
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Technical Data

(For: JS200 [T2/T3 IND])

Wear Limits

Figure 231.



A Dimension A

Table 63.

Wear Condition	Dimension A mm
0%	150.00
10%	148.80
20%	147.50
30%	146.30
40%	145.00
50%	143.80
60%	142.20
70%	140.60
80%	139.20
90%	137.60
100%	135.20
110%	133.00
120%	131.00

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Table 135. Abnormal noise

Cause	Remedy
Large amount of air mixed in the oil or insufficient oil flow.	Check the oil in the tank and motor case.
	Thoroughly bleed the air.
Loosening of bolts or pipes.	Check if the piping connections, attachment mounting bolts, motor attachment bolts or other bolts are loose.
	Tighten to the specified torque.

Table 136. Oil leakage from mating surfaces

Cause	Remedy
O-ring is damaged.	-
	-
	Replace with new O-rings.
Seal face is damaged.	-
	-
	Repair seal face or renew.
Bolts are loose.	Check the bolt tightness.
	Tighten the bolts to the correct torque.

Table 137. Slew brake does not release

Cause	Remedy
No hydraulic pressure at the slew brake piston	Check the brake pressure.
Pressure switch fault	Check operation. Refer to (PIL 33-90-00)
Slew brake solenoid electrical fault	Check related wires and electrical components. Refer to Operation (PIL 33-33-88)

Table 138. Slew brake does not come on or is not effective

Cause	Remedy
Pressure switch fault	Check operation. Refer to (PIL 33-90-00)
Slew brake solenoid electrical fault	Check related wires and electrical components. Refer to Operation (PIL 33-33-88)
Worn or faulty slew brake components	Disassemble slew motor. Renew components as necessary. Refer to Disassemble and Assemble.

Table 139. Slew brake release is sudden

Cause	Remedy
Slew brake pressure is low	Check the brake pressure.
Slew brake piston seals leaking	Disassemble slew motor. Renew components as necessary. Refer to Disassemble and Assemble.

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24 - Auxiliary Hydraulic Circuit

Diagram

Figure 906. 333-K4639-2-SHEET-1.....Page 33-289

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Figure 322.



19. Install new O-rings on to plugs. Install plugs in to the rear flange and temporarily tighten with an Allen key.

Figure 323.



20. Install the pistons in to the rear flange.

Figure 324.



21. Install new O-rings on to plugs. Install plugs in to the rear flange and temporarily tighten with an Allen key.

Figure 325.



22. Insert the brake spool into the flange.

Figure 326.



23. Install a new O-ring on to the plug. Install washer and spring on to the plug.

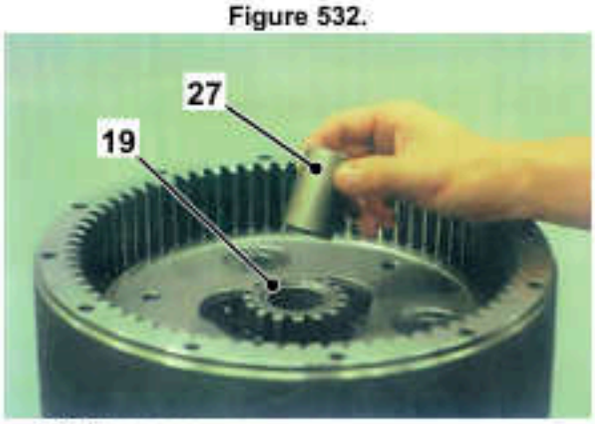
Figure 327.



24. Install plug in to the rear flange making sure that the spring does not get deformed. Temporarily tighten the plug.

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Figure 532.

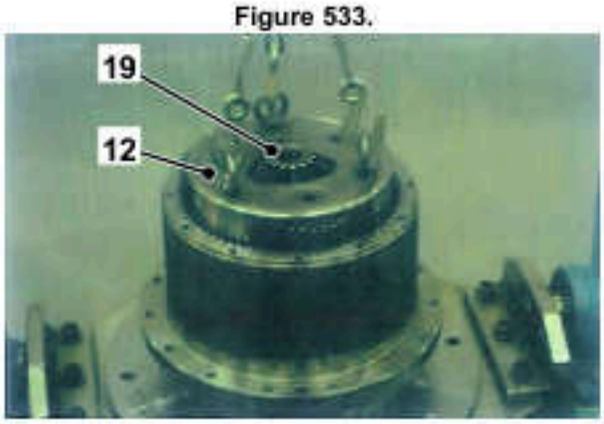


19 Sun gear
27 Coupling

9. Attach three eyebolts to second reduction planet carrier assembly and remove from housing using suitable lifting equipment.

10. Remove the second stage sun gear.

Figure 533.



12 Carrier
19 Sun gear

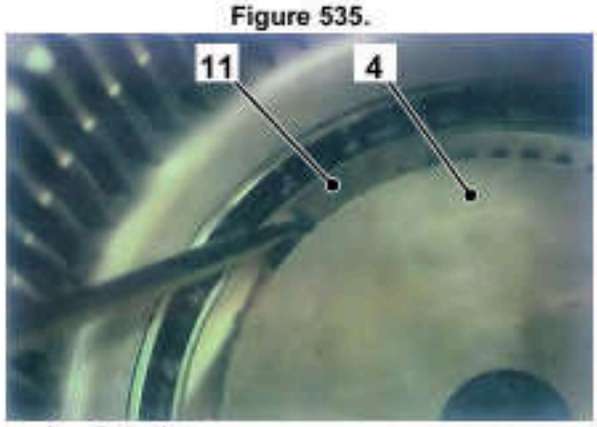
11. Fix gearbox assembly to a workbench.

Figure 534.



12. Using a punch and hammer, tap lock washers from groves in spindle and remove.

Figure 535.

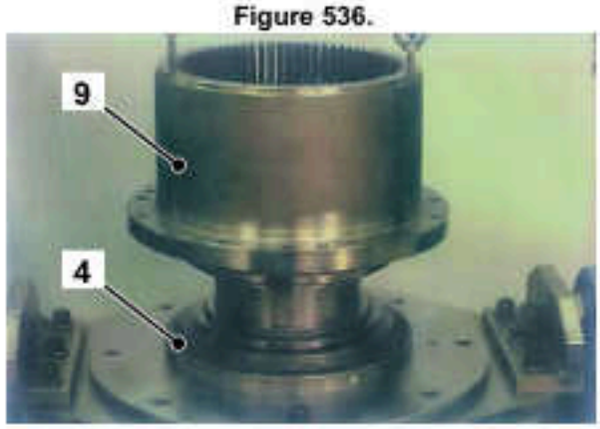


4 Spindle
11 Lock washer

13. Release the housing from the workbench.

14. Fit two eye bolts to the hub and use suitable lifting equipment to lift it clear of the spindle.

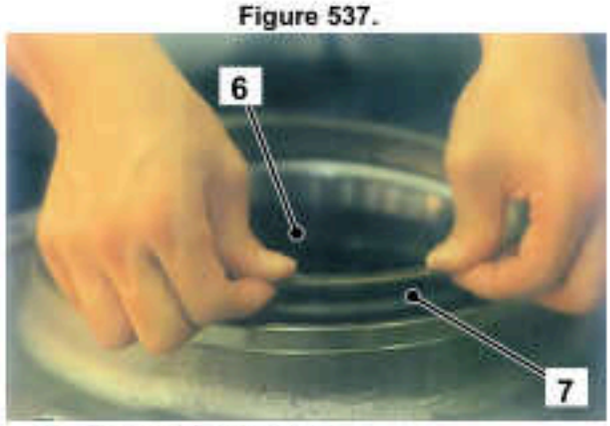
Figure 536.



4 Spindle
9 Hub

15. Remove the floating seal.

Figure 537.



6 External floating seal
7 Internal floating seal

16. Only remove bearing if a replacement is available as removal will cause damage.

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