



Service Repair Manual

Models

312B and 312B L Excavator

Product: EXCAVATOR

Model: 312B EXCAVATOR 9NW

Configuration: 312B & 312B L Excavators 9NW00001-UP (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 312B Excavator Machine Systems

Media Number -REN1113-01

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i02061750

Final Drive - Disassemble

SMCS - 4050-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Repair Stand	1
	9S-7338	Crossblock	1
B	3H-0465	Push-Puller Plate	2
	154-9326	Spring Compressor Plate	1
	154-9323	Spacer	2
C	5P-4758	Internal Pliers	1
D	138-7575	Link Bracket	2
E	1U-5839	Puller	1
	199-4925	Wrench (1)	1
	165-1670	Wrench	1
F	165-1671	Reaction Shaft	1
	132-8119	Torque Wrench	1
	132-8223	110 V Power Pack	1
	132-8231	220 V Power Pack	1

⁽¹⁾ Use this wrench for the newer shaft nut that has four slots.

Start By:

- A. Remove the final drive. Refer to Disassembly and Assembly, "Final Drive - Remove" in this manual.
1. Thoroughly clean the outside of the travel motor and the final drive prior to disassembly.
2. Put an alignment mark across the sections of the travel motor and the final drive for assembly purposes. The parts must be reinstalled in the original locations of the parts.

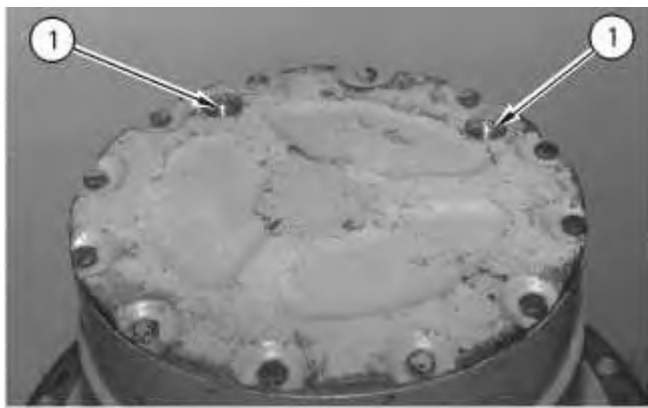


Illustration 1

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3. Fasten the travel motor and the final drive to Tooling (A) with the travel motor in the up position. Remove drain plugs (1) in order to drain the oil. The capacity of the final drive is 2.5 L (.66 US gal).

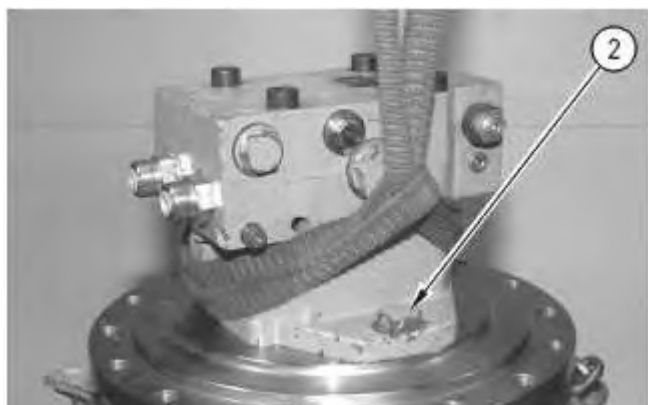


Illustration 2

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4. Remove the bolts (2) and use the lifting strap in order to remove the travel motor from the final drive.

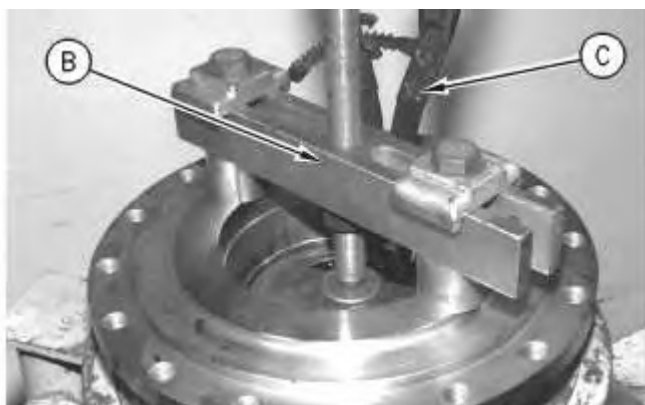


Illustration 3

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5. Use Tooling (B) to compress the brake assembly and remove the retaining ring.



Illustration 4

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6. Remove spacer ring (3) and twenty springs (4) .



Typical example

7. Apply a suitable amount of air pressure in the oil passage in order to partially remove piston (5) .



Illustration 6

8. Remove piston (5) .



Illustration 7

9. Remove shaft link (6) .



Illustration 8

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10. Remove brake disks (7) .



Illustration 9

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11. Remove supporting ring (8) .

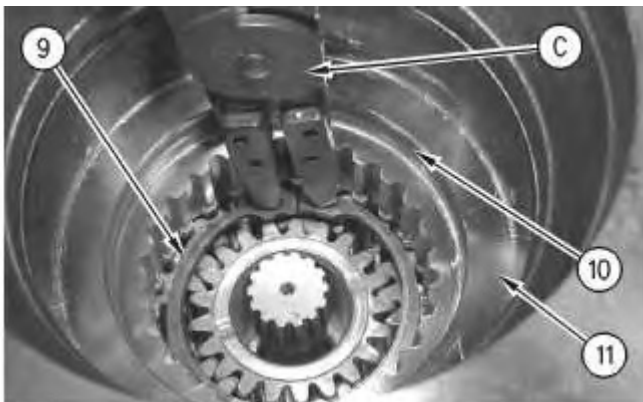


Illustration 10

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12. Use Tooling (C) to remove snap ring (9) .

13. Remove seal (10) from spindle (11) .

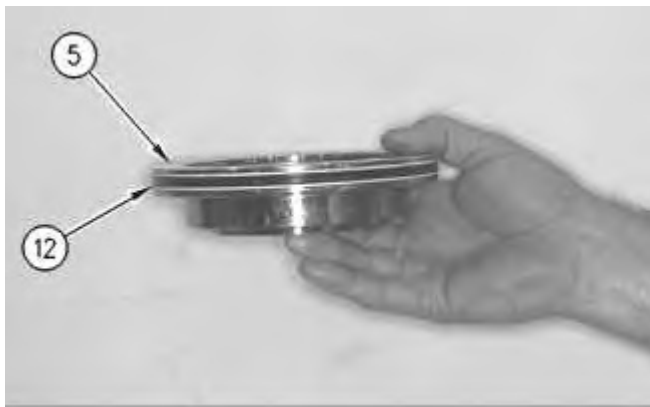


Illustration 11

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Typical example

14. Remove seals (12) from piston (5) .
15. Use lifting straps and Tooling (D) in order to lift the final drive off Tooling (A) .
16. Carefully rotate the final drive so that the planetary cover is up.
17. Fasten the final drive to Tooling (A) .



Illustration 12

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18. Remove twelve bolts (13) that secure cover (14) to the final drive. Remove the O-ring seal from the cover.
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