

Product: EXCAVATOR

Model: 318C EXCAVATOR BTG

Configuration: 318C Excavators BTG00001-UP (MACHINE) POWERED BY 3066 Engine

## Disassembly and Assembly 318C Excavator Machine Systems

Media Number -REN6647-04

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i02275023

## Final Drive - Disassemble

SMCS - 4050-015

S/N - BTG1-UP

S/N - DAH1-UP

S/N - FAA1-UP

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	154-6360	Forcing Bolt	2
C	1P-2320	Combination Puller	1
D	138-7576	Link Bracket	2
	8B-7554	Bearing Cup Puller Gp	1
E	7S-7786	Puller Leg	2
	8B-7560	Step Plate	1
F	246-7504	Socket	1
G	6V-6080	Torque Multiplier Gp	1
	9U-5006	Torque Wrench	1
H	FT-2993	Reaction Bar	1

J	154-9316	Metric Thread File	1
K	1P-1864	Retaining Ring Pliers As	1
L	1U-8151	Drill Bit (5 mm)	1

**Start By:**

- A. Remove the final drive. Refer to Disassembly and Assembly, "Final Drive - Remove".

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**NOTICE**

**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

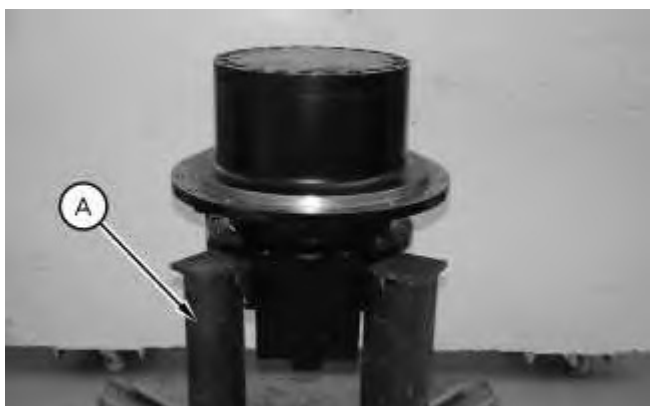
**Dispose of all fluids according to local regulations and mandates.**

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1. Drain the final drive into a suitable container. Refer to Operation and Maintenance Manual, "Capacities (Refill)".

**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will prevent dirt from entering the internal mechanism.

2. Put an alignment mark across the sections of the final drive for assembly purposes. The parts must be reinstalled in the part's original locations.




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Illustration 1

g01139499

3. Fasten the final drive to Tooling (A), as shown. If necessary, remove the final drive sprocket. Refer to Disassembly and Assembly, "Final Drive Sprocket - Remove and Install". The weight of the final drive is approximately 250 kg (550 lb).

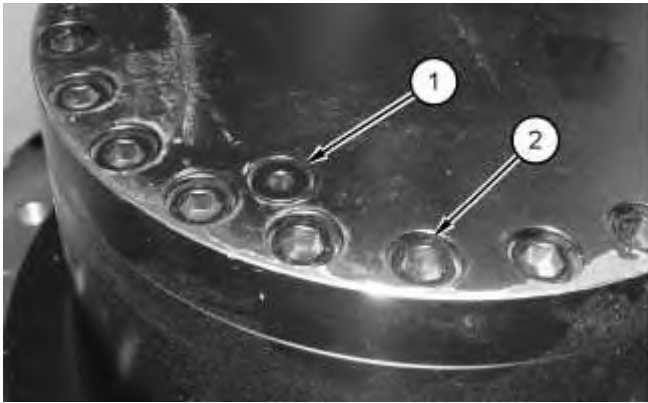


Illustration 2

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4. Remove drain plugs (1) .
5. Remove bolts (2) .

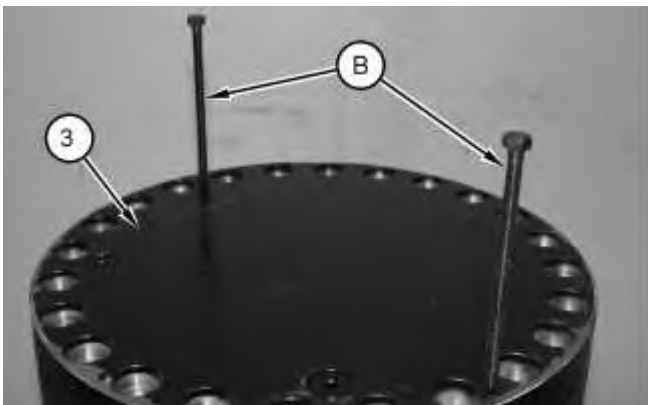


Illustration 3

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6. Use Tooling (B) to separate cover (3) from the final drive. Remove cover (3) .
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Illustration 4

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7. Remove planetary assembly (4) .
8. Remove O-ring seal (5) .



Illustration 5

g01139503

9. Remove retaining ring (6) (not shown).
10. Use Tooling (C) in order to remove planetary gear (7) .



11. Remove retaining ring (8) and bearing (9) .
12. Repeat Steps 9 through 11 for the remaining planetary gears.

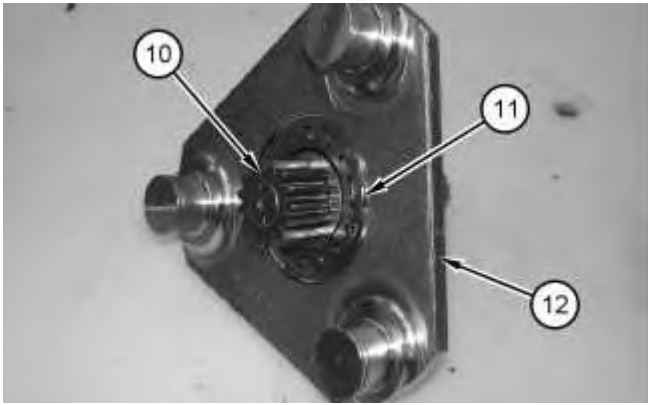


Illustration 7

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13. Remove retaining ring (11) and shaft (10) from carrier (12) .

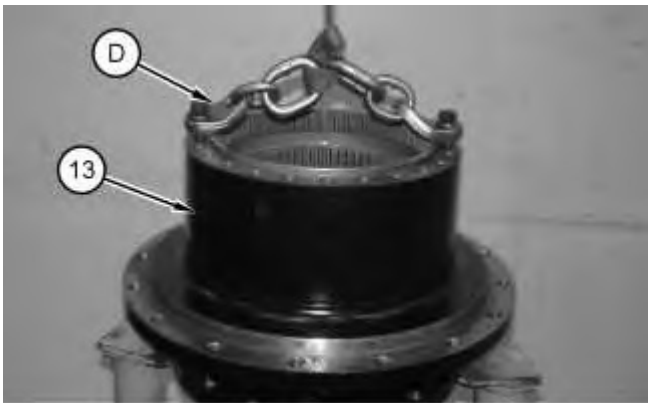


Illustration 8

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14. Use Tooling (D) to remove ring gear (13). The weight of ring gear (13) is approximately 32 kg (70 lb).
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