



Service Repair Manual

Models

M322F Wheeled Excavator

Product: WHEELED EXCAVATOR

Model: M322F WHEELED EXCAVATOR FBW

Configuration: M322F Wheeled Excavator FBW00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly

M314F, M316F, M318F, M320F and M322F Wheeled Excavator Power Train

Media Number -UENR6143-07

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i06220082

Final Drive Carriers, Hubs and Brakes - Disassemble - Front Axle

SMCS - 4054-015; 4092-015; 4253-015; 4255-015

Disassembly Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|-----------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 1P-1863 | Retaining Ring Pliers | 1 |
| B | 6V-9508 | Face Seal Plug | 1 |
| | 6V-9829 | Cap As | 1 |
| | 1P-0510 | Driver Gp | 2 |
| | 5F-7345 | Screw | 1 |
| C | 267-6564 | Spanner | 1 |
| D | 1U-5832 | Pry Bar | 1 |
| E | 1U-6410 | Three Jaw Puller | 1 |
| F | 1P-0510 | Driver Gp | 1 |
| G | 5P-4197 | Spacer | 1 |
| H | 1A-1935 | Full Nut | 1 |
| | 3H-0465 | Push-Puller Plate | 4 |
| | 5F-7342 | Adapter | 2 |
| | 5F-7343 | Bearing Puller Gp | 1 |

| | | |
|---------|---------------|---|
| 5F-7366 | Forcing Screw | 1 |
| 5P-8248 | Hard Washer | 2 |
| 6B-6684 | Full Nut | 2 |
| 6V-8237 | Washer | 1 |
| 8B-7549 | Puller Leg | 2 |
| 9S-7338 | Crossblock | 1 |

Start By:

- a. Remove the front tires and rims.
- b. Release the hydraulic system pressure.

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

1. Drain the oil from the front final drives into a suitable container. Refer to Operation and Maintenance Manual, "Final Drive Oil - Change".

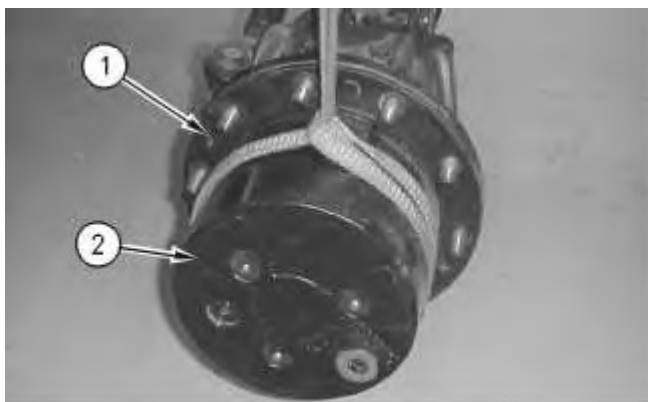


Illustration 1

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2. Attach a suitable lifting device to carrier housing (2).

3. Remove bolts (1).
4. Remove carrier housing (2). The weight of carrier housing (2) is approximately 31 kg (68 lb).

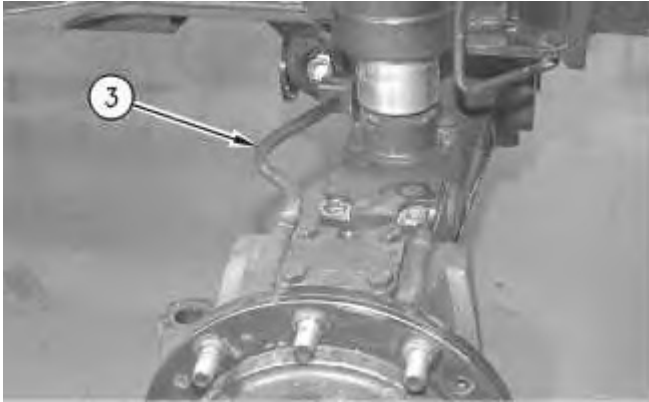


Illustration 2

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5. Disconnect hose assembly (3).

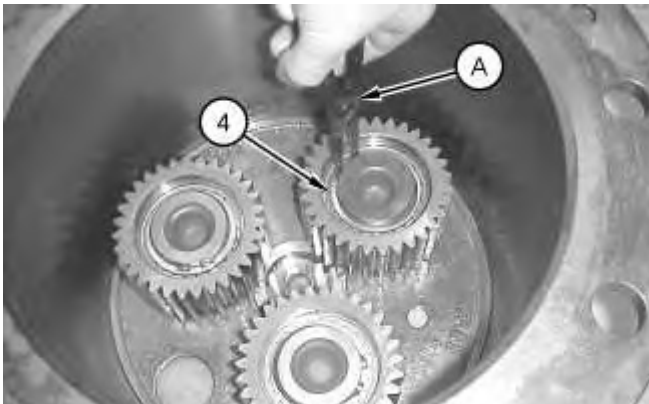


Illustration 3

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6. Use Tooling (A) in order to remove retaining rings (4).

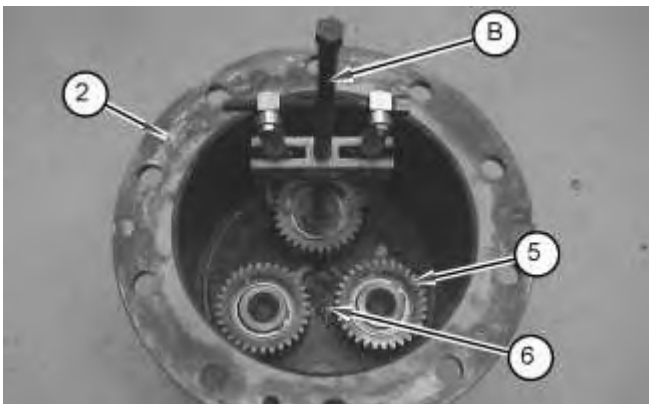


Illustration 4

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7. Use Tooling (B) in order to remove planetary gears (5) from carrier housing (2).

8. Remove thrust washer (6).

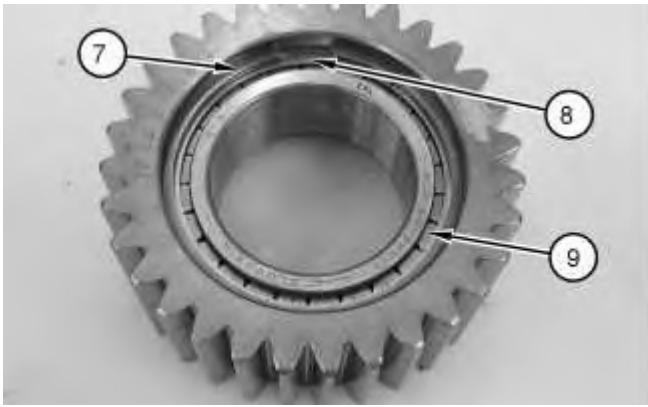


Illustration 5

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9. Remove retaining ring (7), washer (8), and roller bearing (9).

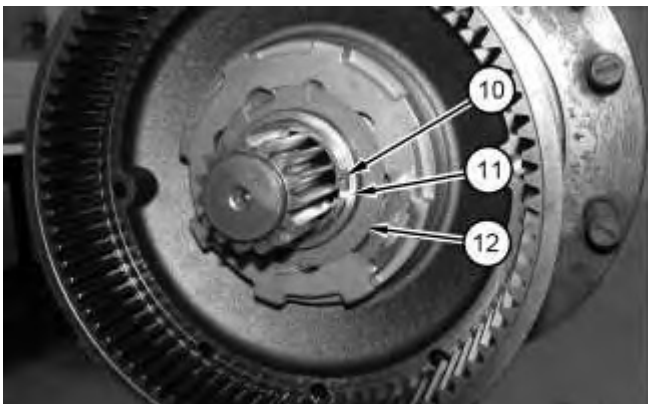


Illustration 6

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10. Use Tooling (A) in order to remove retaining ring (10). Remove thrust washers (11) and (12).



Illustration 7

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