



Service Repair Manual

Models

627G Wheel Scraper

Product: WHEEL TRACTOR

Model: 627G WHEEL TRACTOR DBD

Configuration: 627G Wheel Tractor DBD00001-UP (MACHINE) POWERED BY C15 Engine

Disassembly and Assembly 627G Wheel Tractor Power Train

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Transfer Gears - Disassemble

SMCS - 3159-015

Disassembly Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|---------------------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 138-7575 | Link Bracket | 1 |
| B | 8B-7548 | Push-Puller Tool Gp | 1 |
| | 8B-7551 | Bearing Puller Gp | 1 |
| | 1P-0498 | Drive Plate | 1 |
| C | 5P-4170 | Step Plate | 1 |
| | 1P-2321 | Combination Puller | 1 |
| D | 8B-7554 | Bearing Cup Puller Gp | 1 |
| | 5P-4170 | Step Plate | 1 |
| | 1P-0518 | Drive Plate | 1 |
| E | 8B-7560 | Step Plate | 1 |
| | 5F-7345 | Screw | 1 |
| | 8B-7554 | Bearing Cup Puller Gp | 1 |
| F | - | Bolts 3/8" - 16 NC by 3 inch | 3 |

Start By:

- a. Remove the transfer gear case. Refer to Disassembly and Assembly, "Transfer Gears - Remove".
- b. Remove the transmission oil filter base. Refer to Disassembly and Assembly, "Transmission Oil Filter Base - Remove and Install".
- c. Remove the transmission scavenge pump. Refer to Disassembly and Assembly, "Transmission Scavenge Pump - Remove".
- d. Remove the transmission oil pump. Refer to Disassembly and Assembly, "Transmission Oil Pump - Remove".

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.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.

Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.

1. Put identification marks on components for installation purposes.

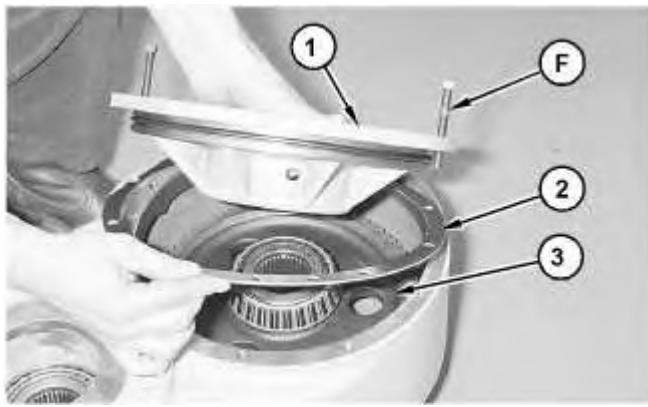


Illustration 1

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2. Remove the bolts that secure bearing cage (1) to the transfer gear case. Use Tooling (F) in order to separate bearing cage (1) from the transfer gear case.
3. Remove bearing cage (1), shims (2), and pump drive gear (3) from the transfer gear case.



Illustration 2

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4. Remove the bolts that secure bearing cage (4) to the transfer gear case. Use Tooling (F) in order to separate bearing cage (4) from the transfer gear case.
5. Remove bearing cage (4), shims (5), and gear (6) from the transfer gear case.



Illustration 3

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6. Remove bearing cups (7) and (8) from the transfer gear case. Attach Tooling (A) and a suitable lifting device onto the transfer gear case. The weight of the transfer gear case is approximately 340 kg (750 lb). Turn over the transfer gear case. Remove Tooling (A).

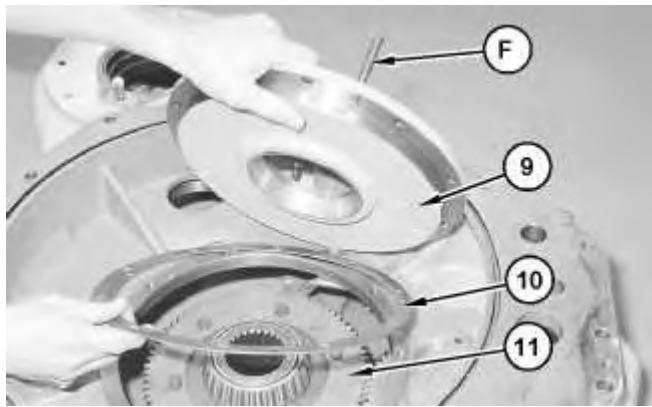


Illustration 4

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7. Remove the bolts that secure bearing cage (9) to the transfer gear case. Use Tooling (F) in order to separate bearing cage (9) from the transfer gear case.
8. Remove bearing cage (9), shims (10), and gear (11) from the transfer gear case.

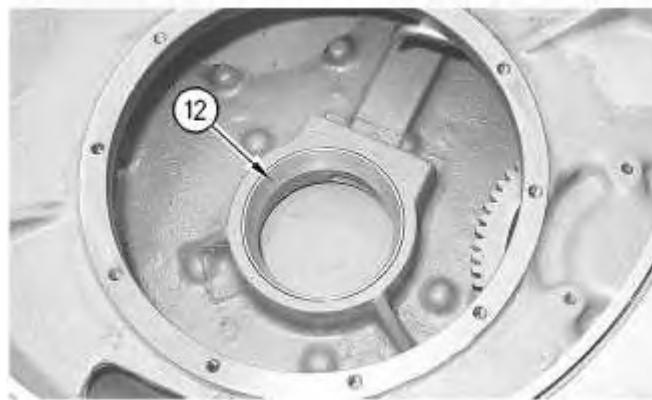


Illustration 5

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9. Remove bearing cup (12) from the transfer gear case. Attach Tooling (A) and a suitable lifting device onto the transfer gear case. Turn over the transfer gear case.

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