



# Service Repair Manual

## **Models**

# 621G Wheel Tractor

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Product: WHEEL SCRAPER  
Model: 621G WHEEL SCRAPER CEP  
Configuration: 621G Wheel Scraper CEP00001-UP (MACHINE)

## Disassembly and Assembly 621G and 627G Wheel Tractor-Scrapers Machine Systems

Media Number -REN4248-01

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i03538320

## Piston Pump (Cushion-Hitch) - Assemble

SMCS - 5070-016; 5316-016

## Assembly Procedure

Table 1

| Required Tools |             |                      |     |
|----------------|-------------|----------------------|-----|
| Tool           | Part Number | Part Description     | Qty |
| A              | 1P-0510     | Driver Group         | 1   |
| B              | 1P-1854     | Pliers               | 1   |
| C              | 1P-1857     | Pliers               | 1   |
| D              | 8T-5096     | Dial Indicator Gp    | 1   |
| E              | 5N-5561     | Silicone Lubricant   | 1   |
| F              | 9S-3263     | Thread Lock Compound | 1   |

**Note:** Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.

**Note:** Apply a light film of 10W oil to all components before assembly.

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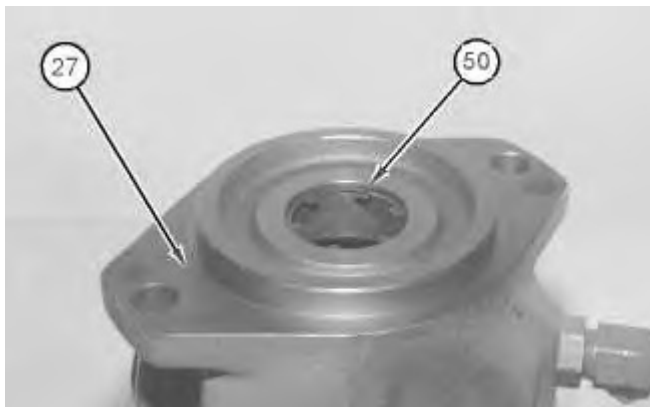


Illustration 1

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1. Use Tooling (C) in order to install retaining ring (50) to pump housing (27) .

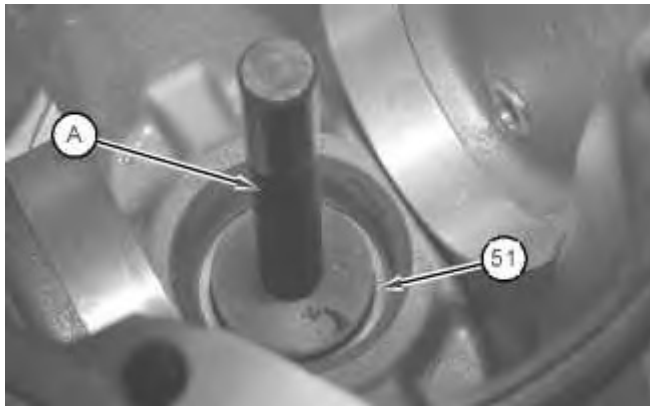


Illustration 2

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2. Use Tooling (A) in order to install lip seal (51) to the pump housing. The sealing lip of the lip seal should face toward the bearing cup. The lip seal must seat against the retaining ring.

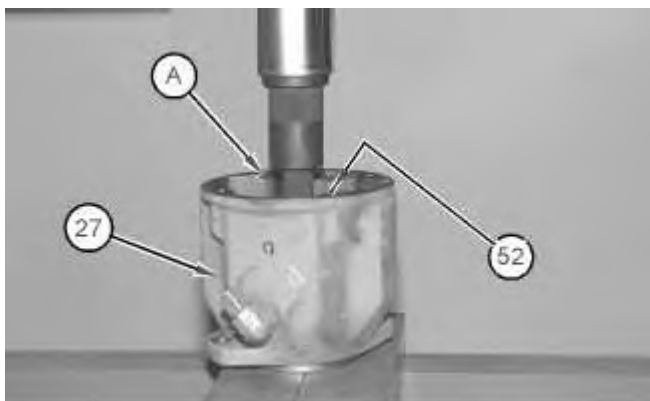


Illustration 3

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3. Lower the temperature of bearing cup (52) . Use Tooling (A) in order to install bearing cup (52) to pump housing (27) . Install bearing cup (52) until the bearing cup seats.
4. Use the following steps to determine the preload on the bearings of the pump assembly.

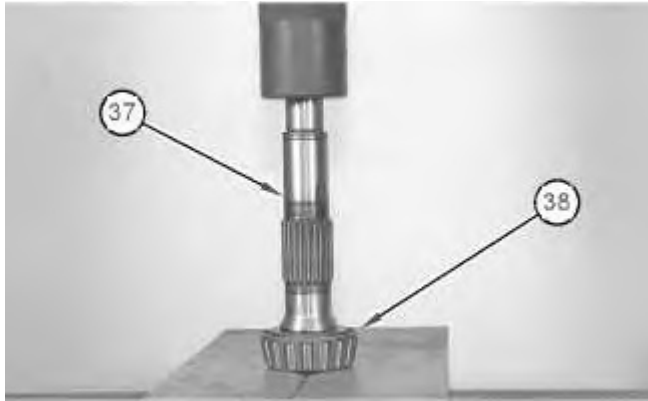


Illustration 4

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- a. Lower the temperature of shaft (37) . Use a suitable press in order to install shaft (37) into bearing cone (38) . Install shaft (37) until bearing cone (38) is seated onto shaft (37) .

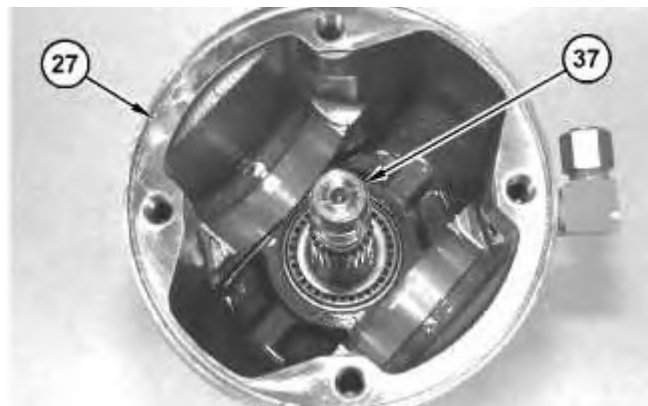


Illustration 5

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- b. Install shaft (37) into pump housing (27) .
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Illustration 6

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- c. Install shim (35) and bearing cone (34) on pump shaft (37) .

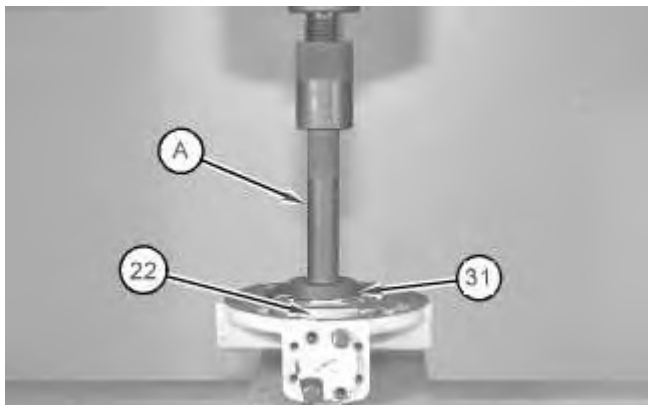


Illustration 7

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- d. Lower the temperature of bearing cup (31) . Use Tooling (A) and a suitable press in order to install bearing cup (31) in pump head (22) . Install the bearing cup until the cup is seated.



Illustration 8

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