



# Service Repair Manual

## **Models**

# 938G WHEEL LOADER

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Product: WHEEL LOADER

Model: 938G WHEEL LOADER 4YS

Configuration: 938G Wheel Loader 4YS00001-UP (MACHINE) POWERED BY 3126 Engine

## Disassembly and Assembly

### IT38G Integrated Toolcarrier and 938G Wheel Loader Power Train

Media Number -SEN6787-07

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i01382038

## Transmission - Disassemble

SMCS - 3030-015

## Disassembly Procedure

Table 1

| Required Tools |             |                           |     |
|----------------|-------------|---------------------------|-----|
| Tool           | Part Number | Part Description          | Qty |
| A              | 138-7573    | Link Bracket              | 1   |
| B              | 8B-7548     | Push-Puller Tool Gp       | 1   |
| C              | 1P-2420     | Transmission Repair Stand | 1   |
| D              | 2P-8312     | Retaining Ring Pliers     | 1   |
| E              | 8S-2328     | Dial Indicator Gp         | 1   |
| F              | 9U-7480     | Compressing Tube          | 1   |
| G              | 1P-1863     | Retaining Ring Pliers     | 1   |
| H              | 9U-7479     | Compressing Tube          | 1   |
| I              | 1U-6341     | Threaded Rod              | 1   |
| J              | 5P-7970     | Nut                       | 1   |

### Start By:

- Separate the transmission from the torque converter. Refer to Disassembly and Assembly, "Transmission and Torque Converter - Separate".

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

**Note:** Put identification marks on all sections of the transmission for assembly purposes.

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## NOTICE

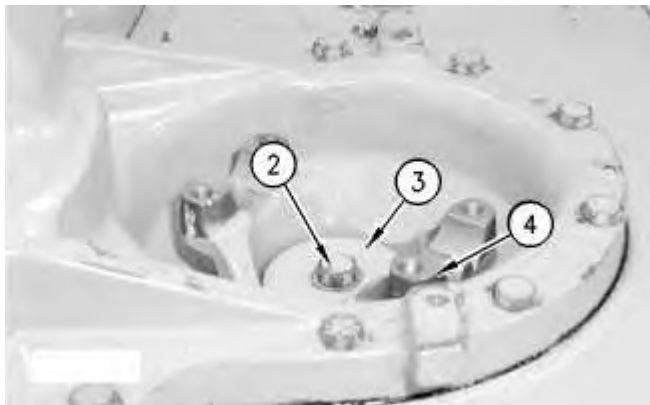
**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**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 transmission fluid into a suitable container for storage or disposal. The capacity of the transmission is 30 L (8 US gal).



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Illustration 1

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2. Remove bolt (2), retainer (3), and yoke (4) .
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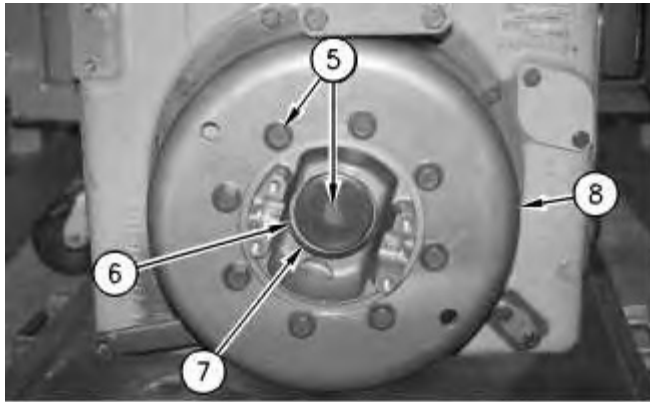


Illustration 2

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3. Remove bolts (5) and remove retainer (6). Check O-ring seal (7) for damage or wear. Replace the seal, if it is necessary. The O-ring seal (7) is located behind retainer (6). Remove brake drum (8) .

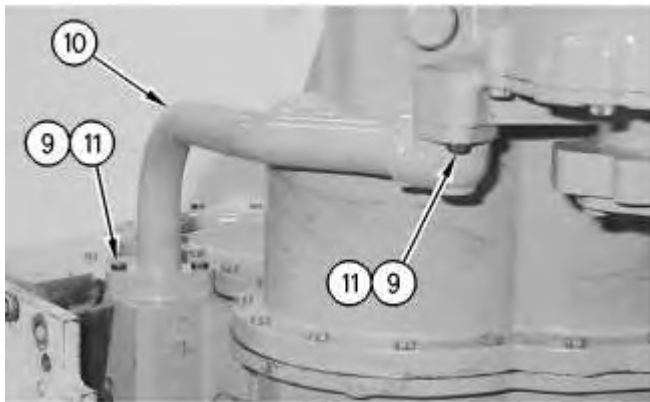


Illustration 3

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4. Remove four bolts (9). Remove tube assembly (10) .
5. Check O-ring seal (11) for damage or wear. The O-ring seal (11) is located on each end of the tube assembly. Replace the seal if it is necessary.



Illustration 4

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6. Remove the transmission cover.

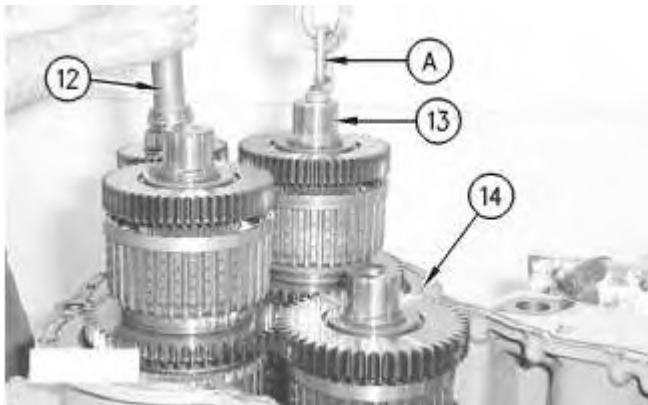


Illustration 5

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7. Install Tooling (A) to shaft (13). Attach a hoist and a suitable lifting sling to Tooling (A) .

**Note:** Hold input shaft (12) away from shaft (13) for clearance.

8. Use the hoist to lift shaft (13) straight up out of transmission case. The weight of shaft (13) is 41 kg (90 lb).

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