CATERPILLAR®

Service Repair Manual

Models

972G Wheel Loader

Product: WHEEL LOADER
Model: 972G WHEEL LOADER 1EW
Configuration: 972G Wheel Loader 1EW00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly
966G and 972G Wheel Loaders Power Train
Media Number -RENR2106-08 **Publication Date -01/05/2004** **Date Updated -28/05/2004**

i02299775

Transmission Planetary - Disassemble

SMCS - 3160-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	138-7575	Link Bracket	3
B	1P-0520	Driver Gp	1
C	8H-0663	Bearing Puller	1

Start By:

A. Separate the transmission from the output transfer gears. Refer to Disassembly and Assembly, "Transmission from Output Transfer Gears - 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 lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, hoses, and tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

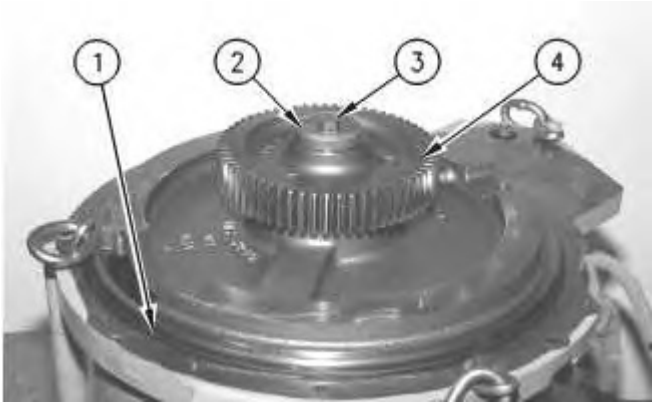

Illustration 1 g00458960

1. Remove O-ring seal (1) from the housing.
2. Remove bolt (3), retainer (2), and drive gear (4) from the end of the input shaft.

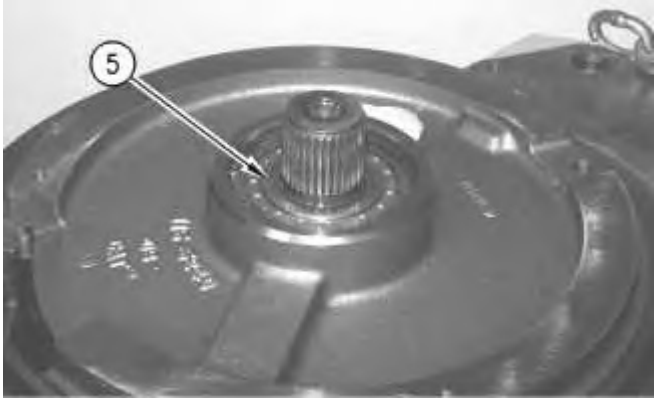

Illustration 2 g00459007

3. Remove plate (5) .

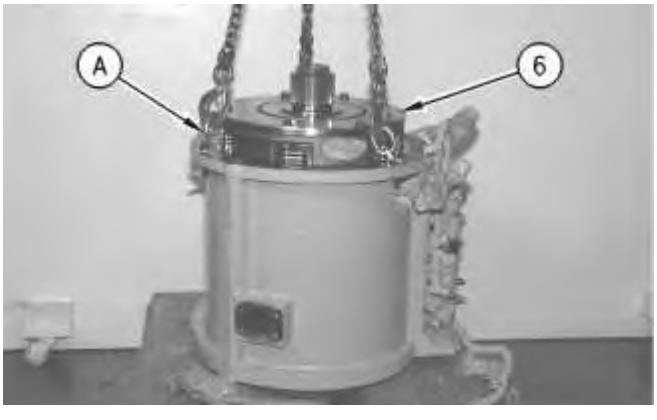

Illustration 3 g00459030

4. Attach Tooling (A) and a suitable lifting device to the transmission, as shown. The weight of the transmission is approximately 544 kg (1200 lb).

5. Carefully position the planetary group on the opposite end so that No. 6 clutch housing (6) is facing upward, as shown.

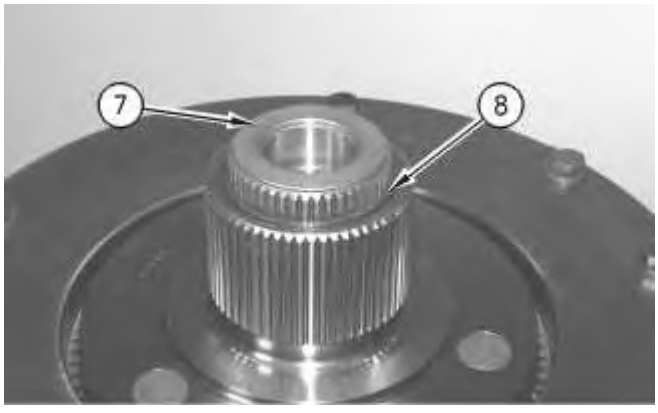

Illustration 4 g00459073

6. Remove retaining ring (8) from output shaft (7) .

Illustration 5 g00459075

WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

7. Remove bolts (9) and No. 6 clutch housing (6). Mark the location of the long bolts.

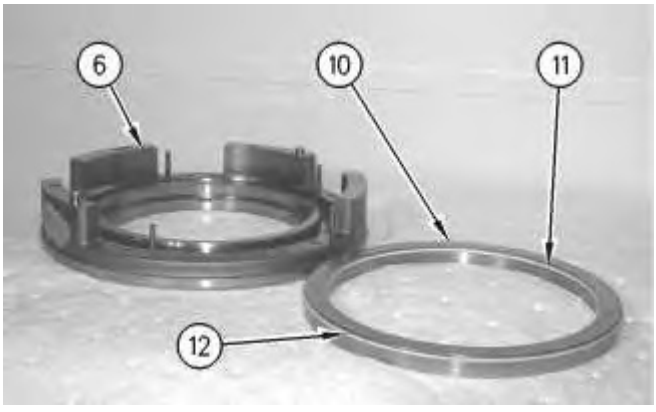

Illustration 6 g00459079

8. Remove clutch piston (10) from No. 6 clutch housing (6) .
9. Remove seal rings (11) and (12) from clutch piston (10) .

Illustration 7 g00459087

10. Remove clutch plate (14) and springs (13) .

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