CATERPILLAR®

Service Repair Manual

Models

966L Wheel Loader

i06909951

Transmission Planetary - Disassemble

SMCS - 3160-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	1P-2420	Transmission Repair Stand	1
B	439-3940	Bracket As	3
C	1P-0520	Driver Gp	1
D	8B-7551	Bearing Puller	1

Start By:

a. Separate the transmission from the output transfer gears.

Note: Cleanliness is an important factor. Before the disassembly procedure, clean the exterior of the component . Cleaning will help to prevent dirt from entering the internal mechanism.

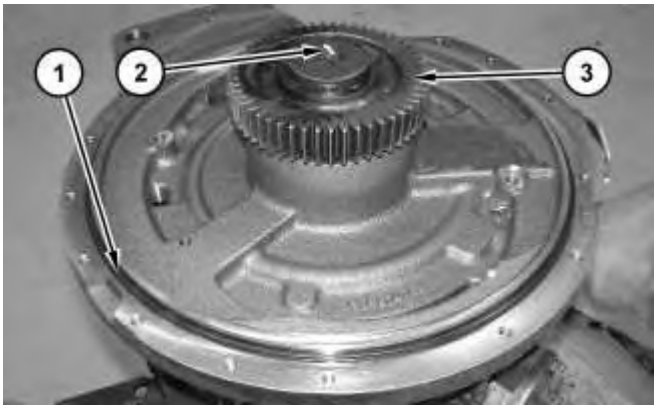

Illustration 1 g03371891

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

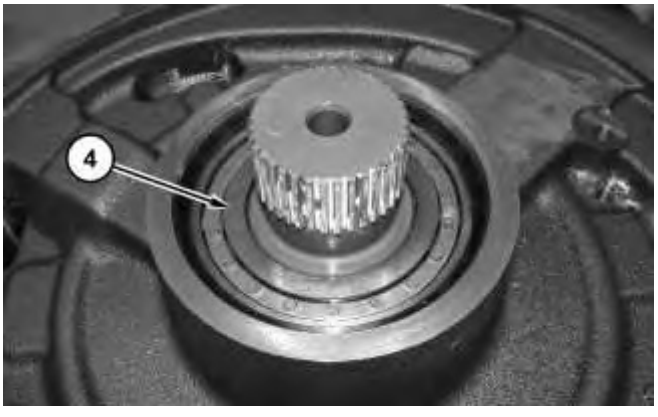

Illustration 2 g02146314

3. Remove plate (4).

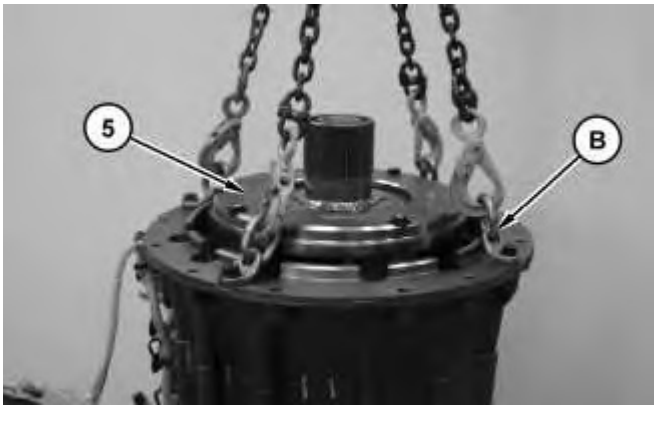

Illustration 3 g03368860

4. Attach Tooling (B) and a suitable lifting device to the transmission, as shown. The weight of the transmission is approximately 425 kg (936 lb).

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

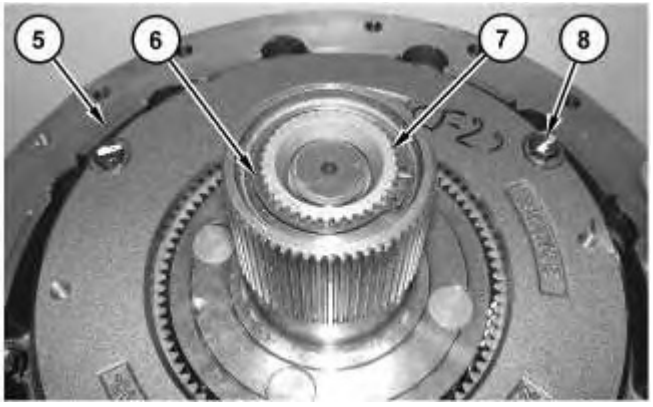

Illustration 4 g03371894

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.

6. Remove retaining ring (6) from output shaft assembly (7). Remove bolts (8) and No. 6 clutch housing (5). Mark the location of the long bolts.

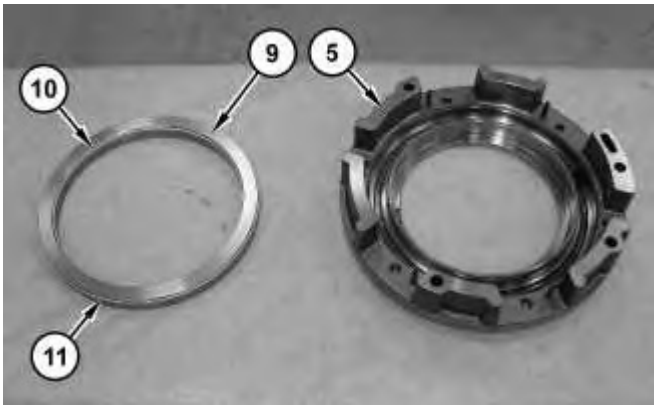

Illustration 5 g02146318

7. Remove clutch piston (9) from No. 6 clutch housing (5).

8. Remove seal rings (10) and (11) from clutch piston (9).

Illustration 6 g02146333

9. Remove clutch plate (12), springs (13), and the pins.

Illustration 7 g02146353

10. Remove clutch plates (12) and friction discs (14). Remove dowels (15).

Illustration 8 g02146354

11. Remove ring gear (16).

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