

Product: WHEEL LOADER

Model: 966M WHEEL LOADER R8D

Configuration: 966M Wheel Loader R8D00001-UP (MACHINE) POWERED BY C9.3 Engine

Disassembly and Assembly

966M T3, 972M T3, 966L T3 and 972L T3 Wheel Loader Power Train

Media Number -M0071452-04

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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:

- 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.

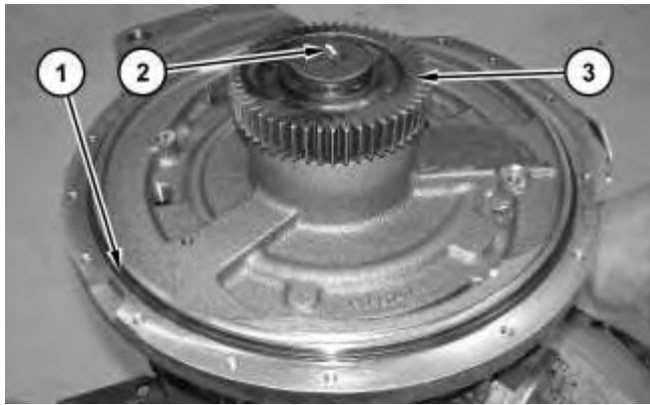


Illustration 1

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

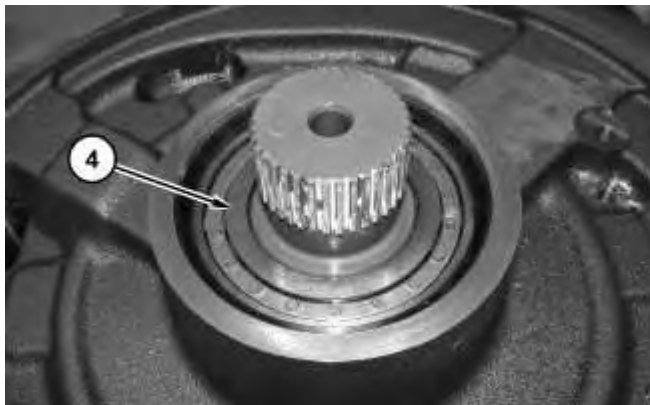


Illustration 2

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3. Remove plate (4).

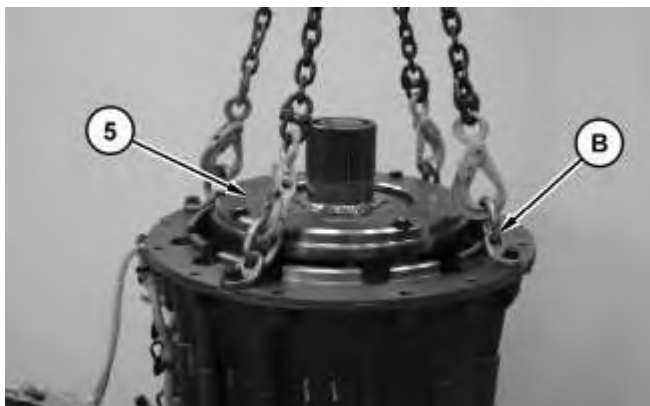


Illustration 3

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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.

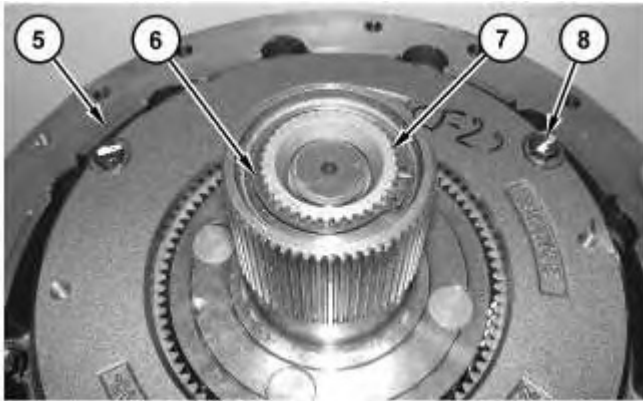


Illustration 4

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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.

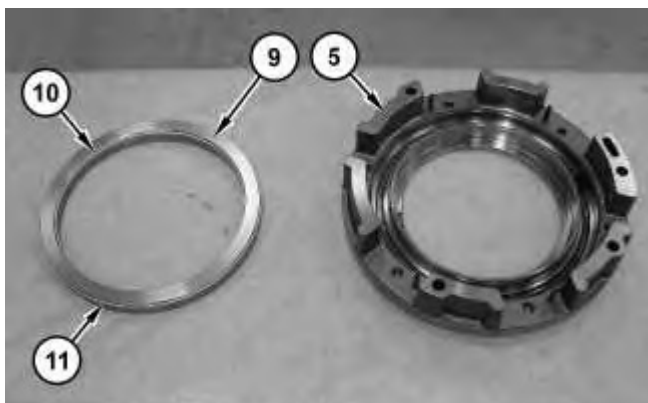


Illustration 5

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7. Remove clutch piston (9) from No. 6 clutch housing (5).
8. Remove seal rings (10) and (11) from clutch piston (9).



Illustration 6

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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

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11. Remove ring gear (16).
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Illustration 9

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12. Remove carrier assembly (17). Remove bolts (18).

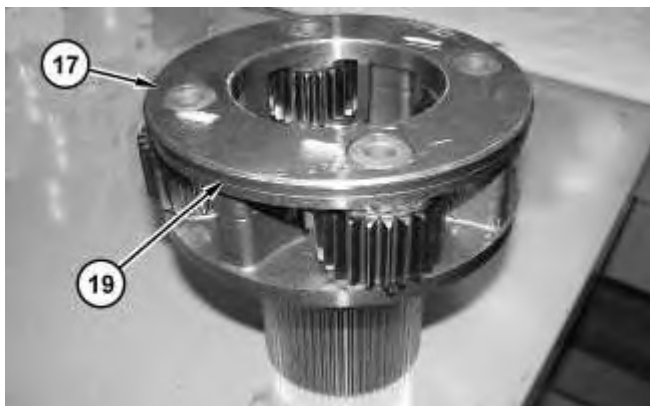


Illustration 10

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13. Remove metal seal ring (19) from carrier assembly (17).

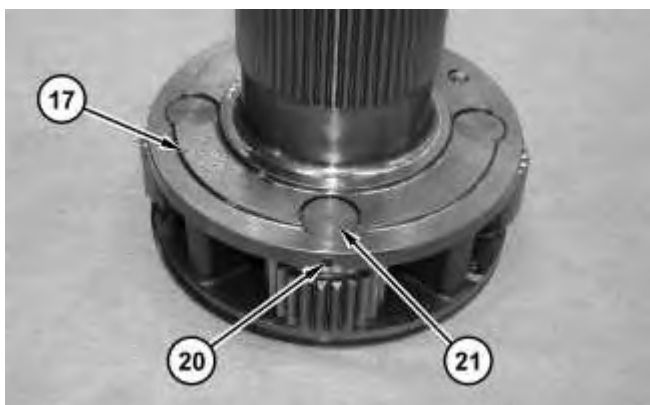


Illustration 11

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14. Push the spring pins (20) through carrier assembly (17) and into planetary shafts (21). Remove planetary shafts (21) from carrier assembly (17).

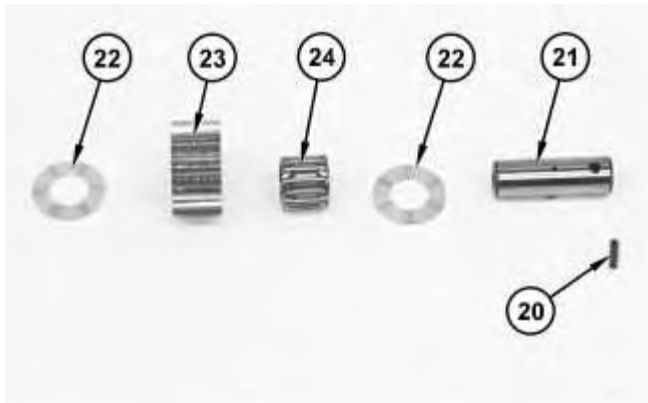


Illustration 12

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15. Remove thrust discs (22), planetary gears (23), and bearings (24) from the carrier assembly. Remove spring pins (20) from planetary shafts (21).



Illustration 13

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16. Disconnect the harness assemblies (26) which are attached to transmission modulating valves (25). Remove transmission modulating valves (25) from the transmission housing.

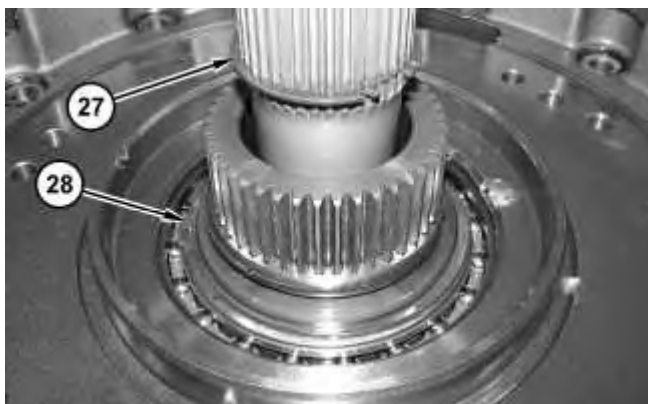


Illustration 14

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17. Remove retaining ring (27) and (28).



Illustration 15

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18. Use Tooling (B) and a suitable lifting device to remove housing assembly (29). The weight of housing assembly (29) is approximately 88 kg (195 lb).



Illustration 16

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19. Remove bearing (30) from housing assembly (29).

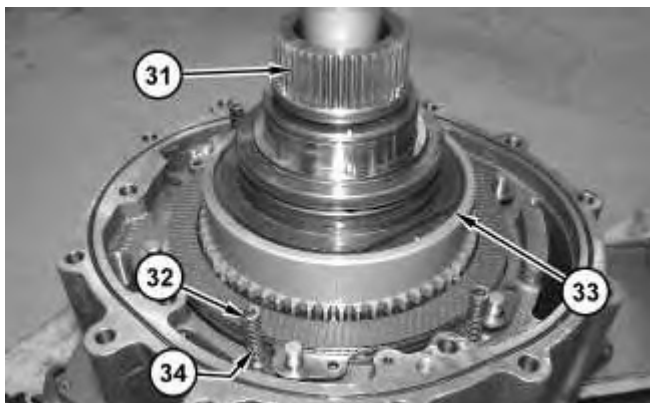


Illustration 17

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20. Remove retaining ring (33) and clutch assembly (31). Remove springs (32) and rods (34) (not shown).

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