

Product: WHEEL LOADER

Model: 966G II WHEEL LOADER AXL

Configuration: 966G SERIES II WHEEL LOADER AXL00001-UP (MACHINE) POWERED BY 3176C ENGINE

Disassembly and Assembly 966G Series II and 972G Series II Wheel Loaders Power Train

Media Number -REN4365-07

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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.

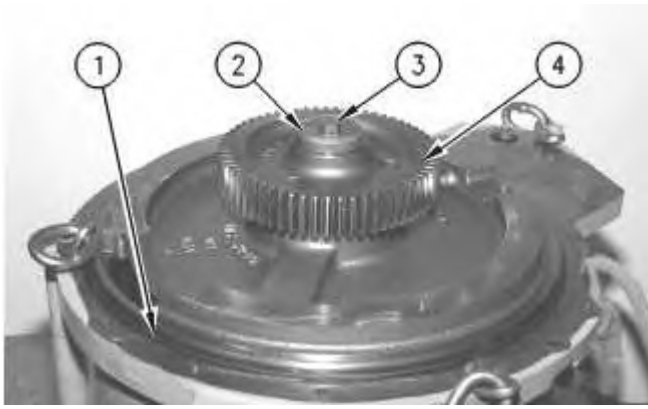


Illustration 1

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.

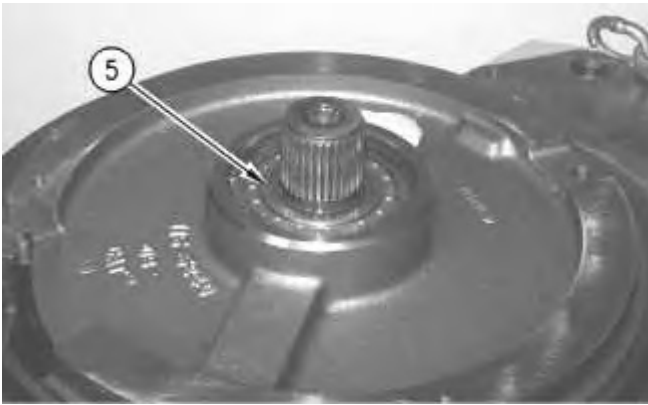


Illustration 2

g00459007

3. Remove plate (5) .

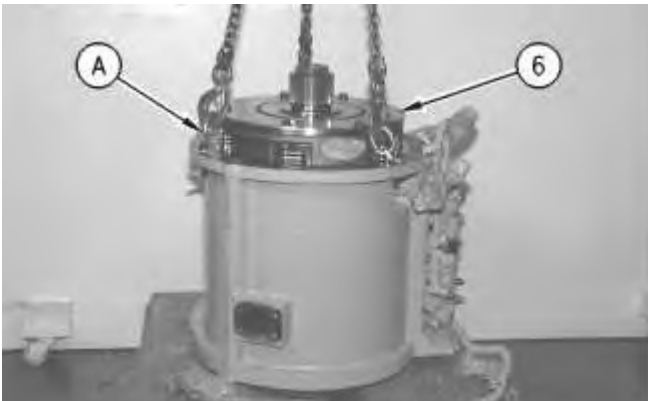


Illustration 3

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.

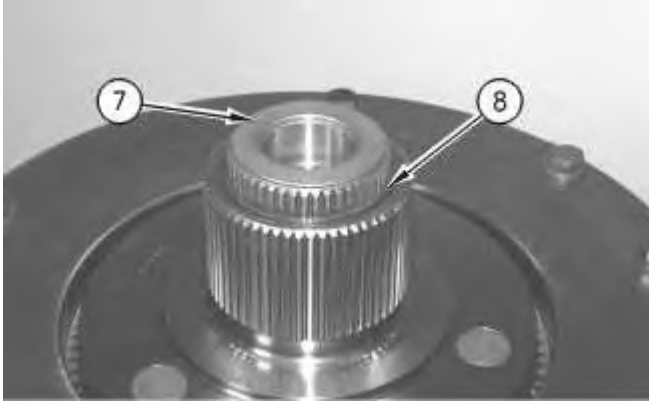


Illustration 4

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.

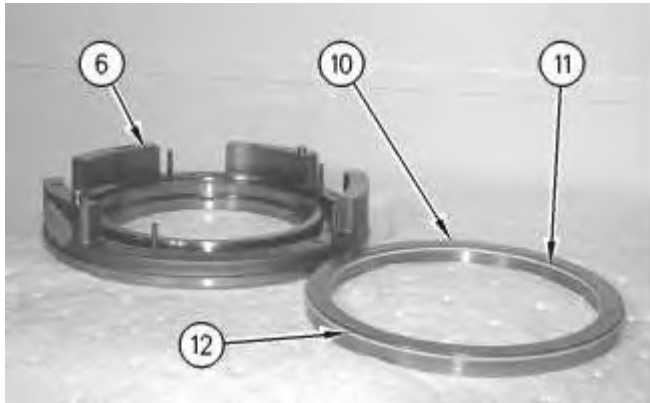


Illustration 6

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) .



Illustration 8

g00459090

11. Remove clutch plates (15) and friction discs (16) .

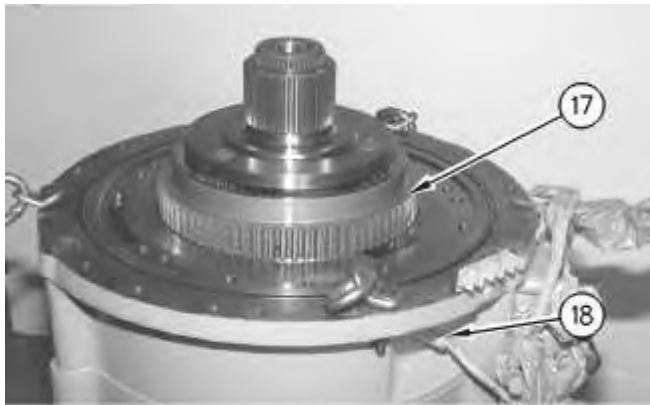


Illustration 9

g00459103

12. Remove ring gear (17). Remove transmission speed sensors (18) .



Illustration 10

g00459133

13. Remove carrier assembly (19) .



Illustration 11

g00459138

14. Remove metal seal ring (20) from carrier assembly (19) .

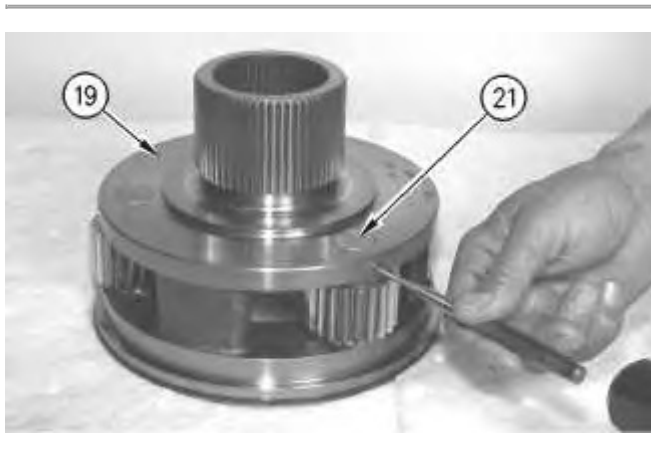
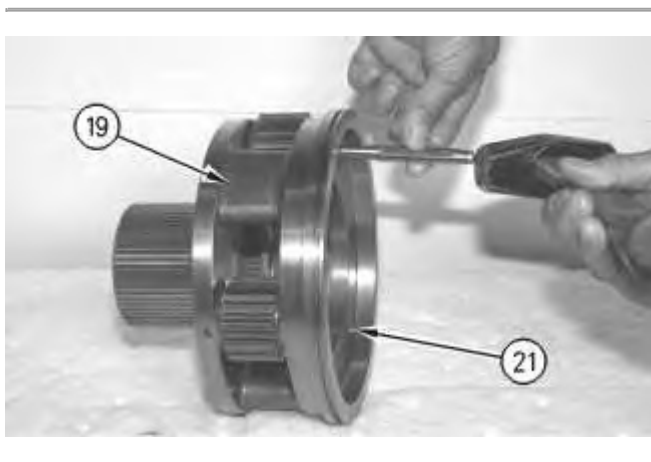


Illustration 12

g00459150

15. Use a hammer and a punch to push the spring pins through carrier assembly (19) and into planetary shafts (21) .



16. Use a hammer and a punch to remove planetary shafts (21) from carrier assembly (19) .

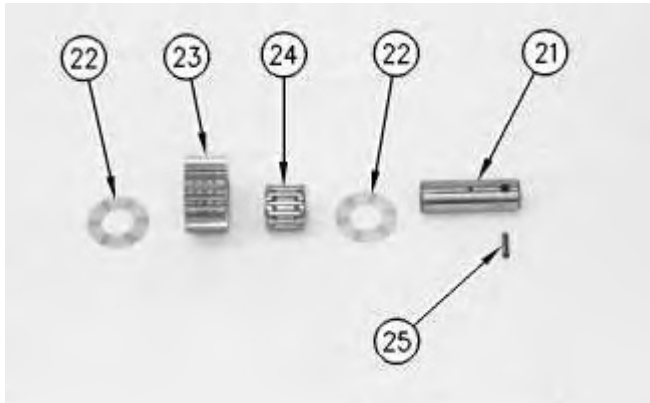


Illustration 14

17. Remove thrust discs (22), planetary gears (23), and bearings (24) from the carrier assembly. Remove spring pins (25) from planetary shafts (21) .



Illustration 15

18. Remove O-ring seal (26). Remove bolts (27) from manifold (28) .
-

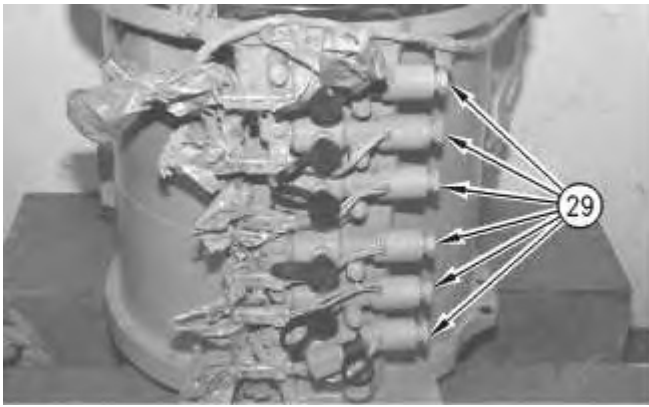


Illustration 16

g00565113

19. Disconnect the harness assemblies which are attached to transmission modulating valves (29). Remove transmission modulating valves (29) from the transmission housing.



Illustration 17

g00459316

20. Remove retaining ring (32) and gear (30). Remove retaining ring (31) .



Illustration 18

g00459322

21. Use Tooling (A) and a suitable lifting device to remove manifold (28). The weight of manifold (28) is approximately 85 kg (190 lb).
22. Remove bolt (33) which holds the harness assembly in place.

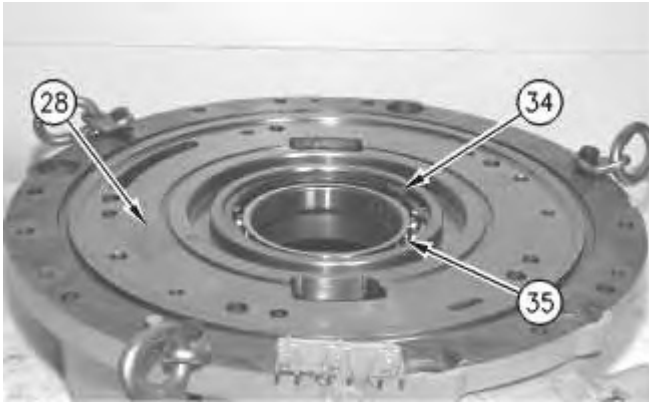


Illustration 19

g00459352

23. Remove retaining ring (34) and bearing (35) from manifold (28) .

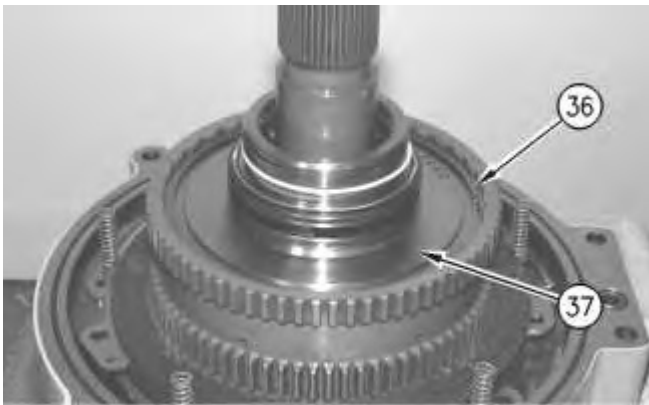


Illustration 20

g00459369

24. Remove retaining ring (36) and clutch housing (37) .
-



Illustration 21

g00459372

25. Remove O-ring seal (38) from clutch housing (37) .

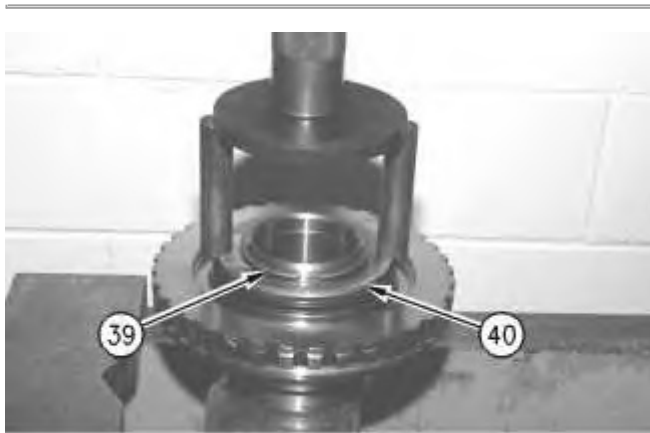


Illustration 22

g00459375

 **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.

26. Use steel spacers and a suitable press to push on retainer plate (40). Remove retaining ring (39) from the clutch housing.

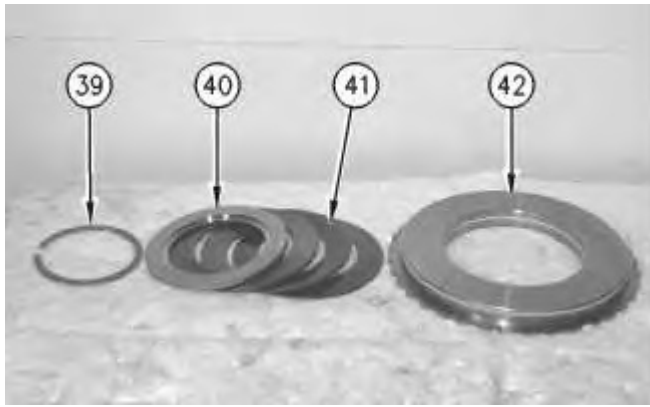


Illustration 23

g00459387

27. Separate retaining ring (39), retainer plate (40), three coned disc springs (41), and clutch piston (42) .

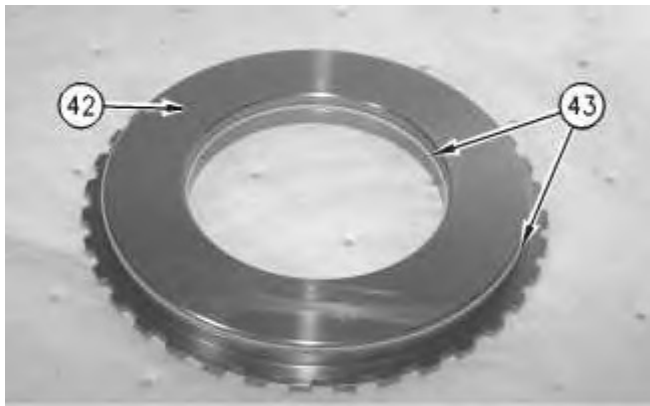


Illustration 24

g00459393

28. Remove seal rings (43) from clutch piston (42) .



Illustration 25

g00459394

29. Remove seal rings (44) from clutch housing (37) .

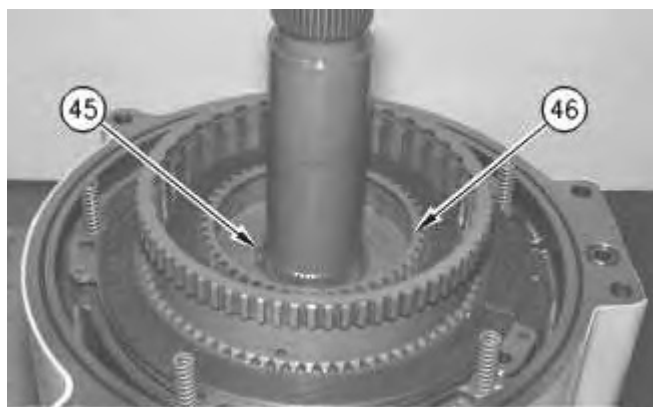


Illustration 26

g00565119

30. Remove retaining ring (45) from the output shaft. Remove hub (46) .

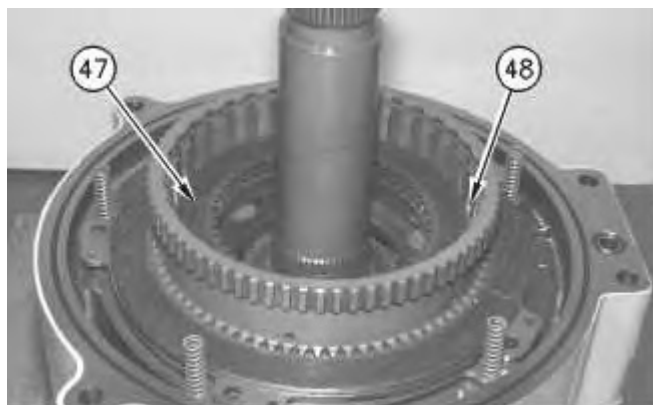
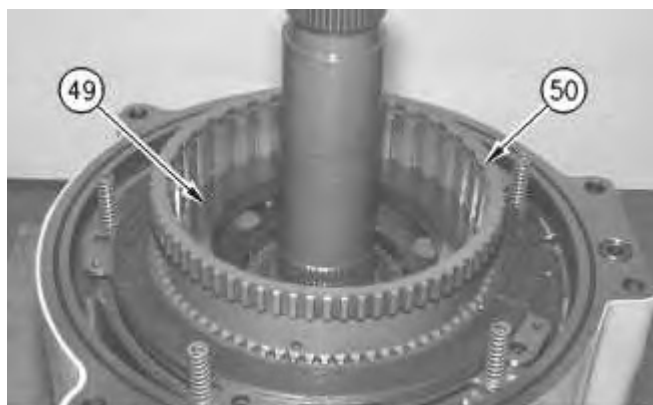


Illustration 27

g00565685

31. Remove friction discs (47) and clutch plates (48) .



32. Remove clutch plate (49) and ring gear (50) .



Illustration 29

33. Remove springs (51). Remove friction discs (52) and clutch plates (53) .



Illustration 30

34. Remove clutch piston (54). Remove O-ring seals (55) and (56) .
-

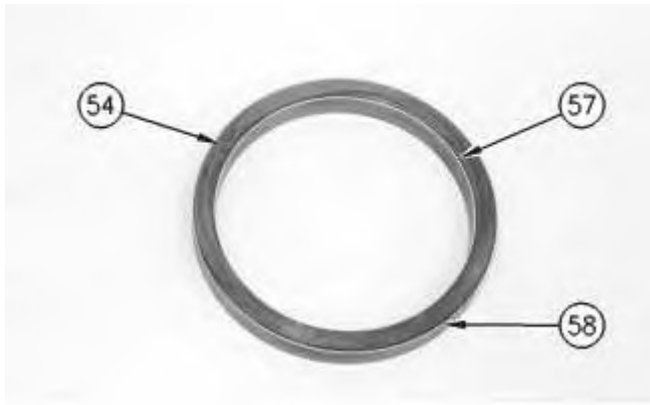


Illustration 31

g00459506

35. Remove seal rings (57) and (58) from clutch piston (54) .

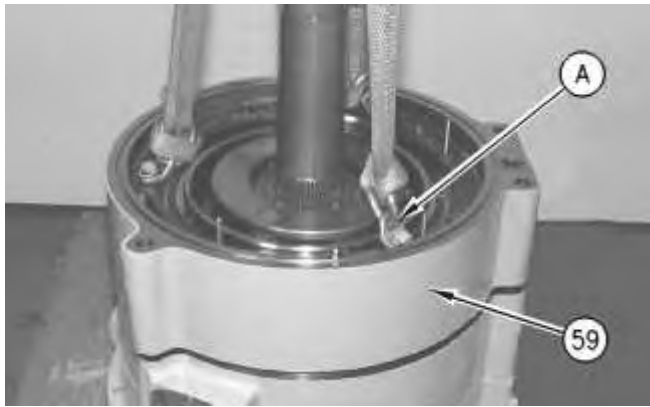


Illustration 32

g00565199

36. Use Tooling (A) and a suitable lifting device to remove housing (59). The weight of housing (59) is approximately 66 kg (145 lb).

Note: The clutch piston may be stuck in housing (59). As housing (59) is removed, the clutch piston may fall.



37. Remove clutch piston (60) .



Illustration 34

38. Remove seal rings (61) and (62) from clutch piston (60) .

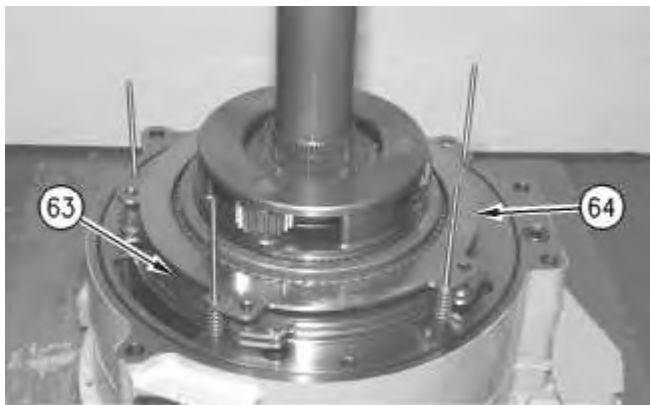


Illustration 35

39. Remove friction discs (63) and clutch plates (64) .



Illustration 36

g00565689

40. Remove O-ring seals (65) and (66). Remove springs (68) and carrier assembly (69). Remove rods (67) .



Illustration 37

g00459619

41. Remove gear (70) from carrier assembly (69) .



Illustration 38

g00459622

42. Remove retaining ring (71) and bearing (72) .



Illustration 39

g00459634

43. Use several small steel rods (73) (3.175 mm (0.1250 inch) diameter and one pointed tip) to compress the retaining ring that holds carrier assembly (69) to ring gear (74) .

44. Remove carrier assembly (69) from ring gear (74) .

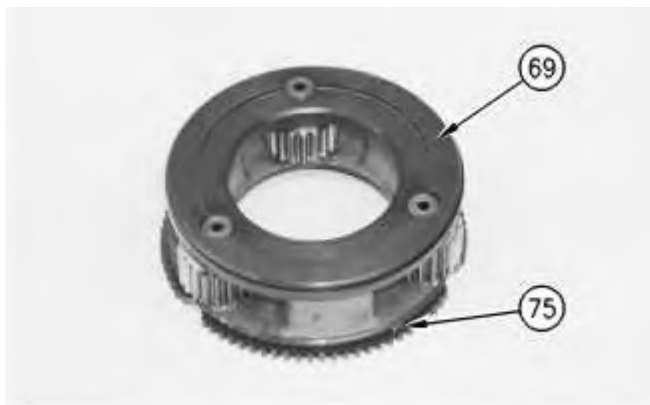


Illustration 40

g00459638

45. Remove retaining ring (75) from carrier assembly (69) .

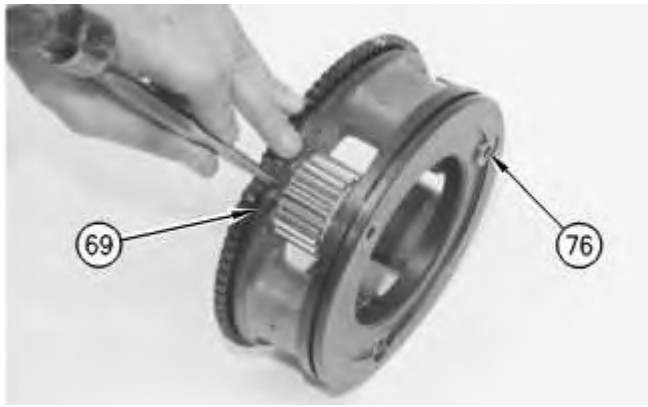


Illustration 41

g00459643

46. Use a hammer and a punch to push the spring pins through carrier assembly (69) and into planetary shafts (76) .
47. Use a hammer and a punch to remove planetary shafts (76) from carrier assembly (69) .

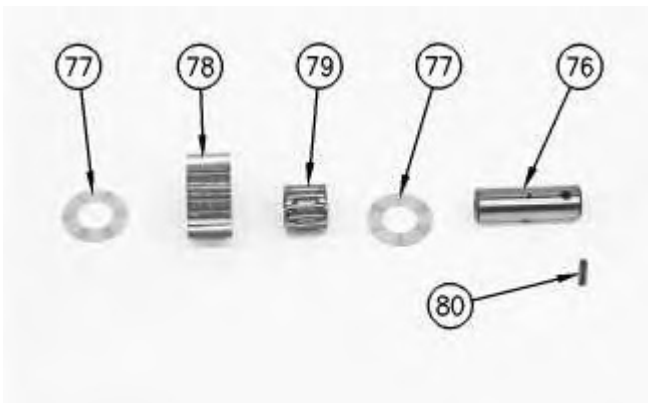
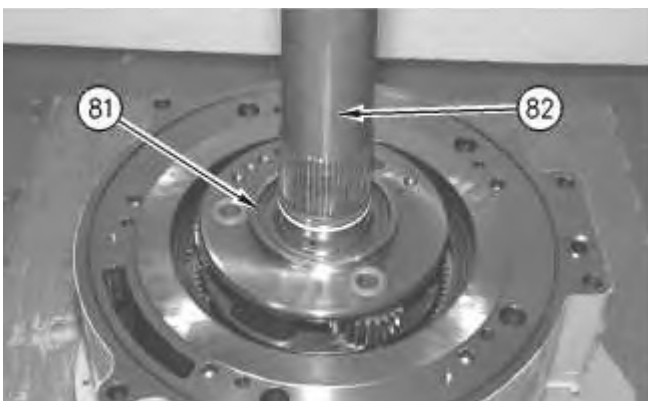


Illustration 42

g00459646

48. Remove thrust discs (77), planetary gears (78), and bearings (79) from the carrier assembly. Remove spring pins (80) from planetary shafts (76) .



49. Remove retaining ring (81) that holds output shaft (82) to the input shaft. Remove output shaft (82) .



Illustration 44

50. Remove O-ring seal (83) from output shaft (82) .

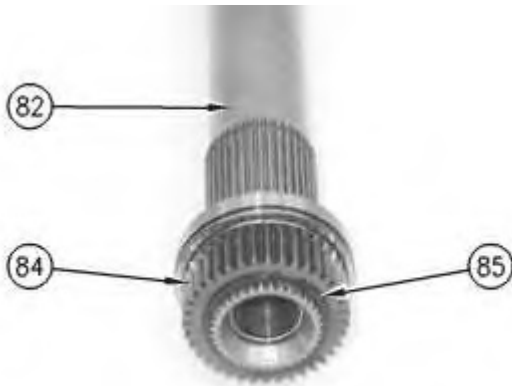


Illustration 45

51. Remove retaining ring (85) .
 52. Remove sun gear (84) from output shaft (82) .
-

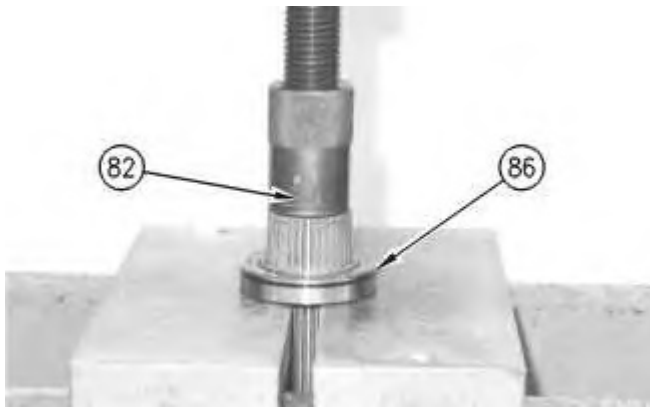


Illustration 46

g00460030

53. Use a suitable press to push output shaft (82) out of bearing (86), as shown.

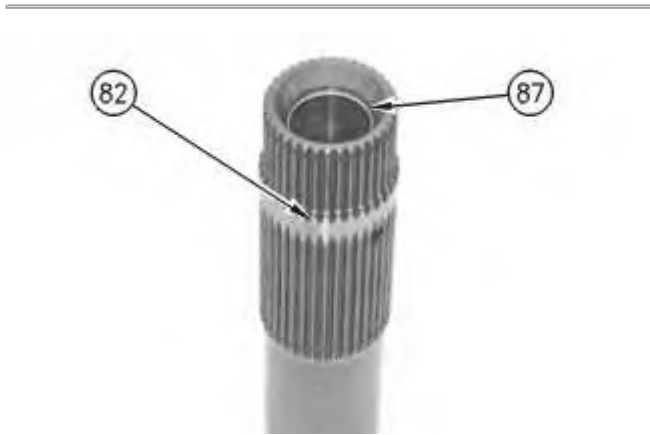


Illustration 47

g00460034

54. If necessary, remove bearings (87) from both ends of output shaft (82) .



Illustration 48

g00565282

55. Use Tooling (A) and a suitable lifting device to remove housing (88). The weight of housing (88) is approximately 61 kg (135 lb).



Illustration 49

g00460042

56. Remove clutch piston (89), friction discs (90), and clutch plates (91) .



Illustration 50

g00460045

57. Remove seal rings (92) and (93) from clutch piston (89) .
-



Illustration 51

g00460067

58. Remove retaining ring (94) from the input shaft.
59. Remove springs (95) and ring gear (96). Remove O-ring seals (97) and (98) .

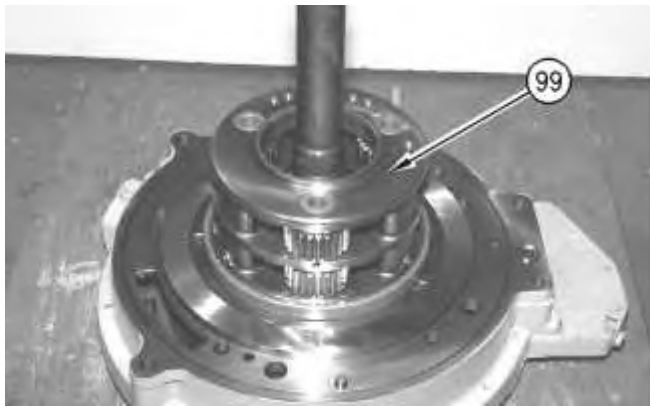
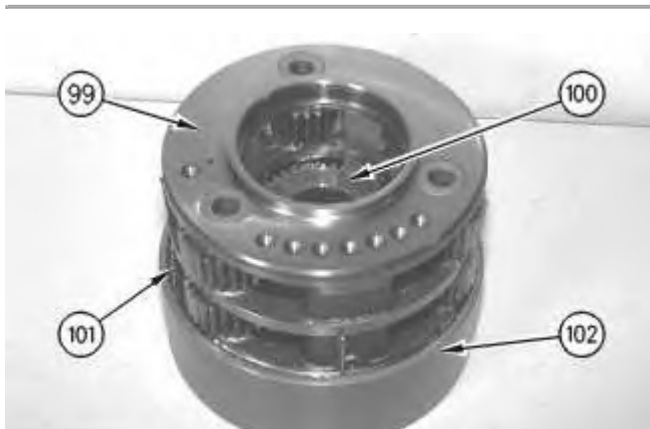


Illustration 52

g00460068

60. Remove carrier assembly (99) from the input shaft. The weight of the carrier assembly is approximately 29 kg (65 lb).



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