

Product: WHEEL DOZER

Model: 854K WHEEL DOZER 221

Configuration: 854K Wheel Dozer 22100001-UP (MACHINE) POWERED BY C32 Engine

Disassembly and Assembly 992K Wheel Loader and 854K Wheel Dozer Power Train

Media Number -REN8912-03

Publication Date -01/02/2008

Date Updated -16/08/2018

i02926664

Torque Converter - Disassemble

SMCS - 3101-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	154-6183	Forcing Bolt	2
B	138-7574	Link Bracket	2
C	138-7573	Link Bracket	3
D	154-6184	Forcing Bolt	3
E	5J-0490	Forcing Bolt	2
F	0S-1614	Bolt	1
	5P-0537	Hard Washer	1
G	9X-8876	Bolt	2
	1F-7958	Nut	2
H	138-7575	Link Bracket	3
J	2D-1201	Eyebolt	1
K	1P-0520	Driver Gp	

Start By:

- Remove the torque converter. Refer to Disassembly and Assembly, "Torque Converter - Remove".

- b. Remove the modulating valve. Refer to Disassembly and Assembly, "Modulating Valve (Torque Converter Lockup Clutch) - Remove and Install".
- c. Remove the modulating valve. Refer to Disassembly and Assembly, "Modulating Valve (Torque Converter Impeller Clutch) - Remove and Install".
- d. Remove the outlet relief valve. Refer to Disassembly and Assembly, "Relief Valve (Torque Converter Outlet) - Remove".
- e. Remove the torque converter priority valve. Refer to Disassembly and Assembly, "Torque Converter Priority Valve - Remove".
- f. Remove the transmission pump. Refer to Disassembly and Assembly, "Transmission Pump - Remove".
- g. Remove the steering piston pump. Refer to Disassembly and Assembly, "Piston Pump (Steering) - Remove".
- h. Remove the brake piston pump. Refer to Disassembly and Assembly, "Piston Pump (Brake) - Remove".
- i. Remove the implement piston pump. Refer to Disassembly and Assembly, "Piston Pump (Implement, RH) - Remove".
- j. Remove the implement piston pump. Refer to Disassembly and Assembly, "Piston Pump (Implement, Center) - Remove".
- k. Remove the piston pump. Refer to Disassembly and Assembly, "Piston Pump (Hydraulic Fan) - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Precision components can be damaged by contaminants or by dirt. Perform disassembly procedures on a clean work surface. Keep components covered and protected at all times.

- 1. Position the torque converter housing assembly onto suitable cribbing. The weight of the torque converter housing assembly is approximately 1250 kg (2850 lb).
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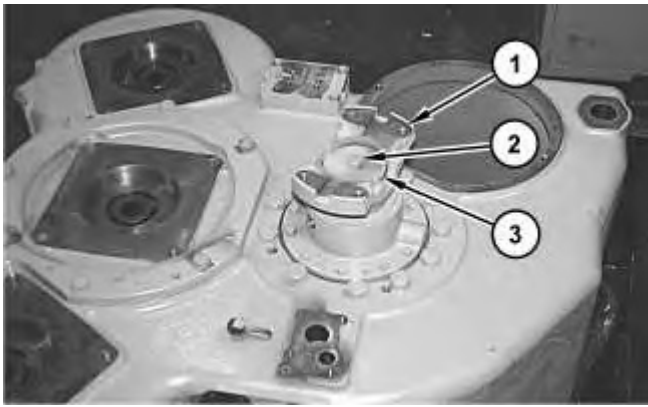


Illustration 1

g01450165

2. Remove bolt (2), retainer (3) and yoke (1).

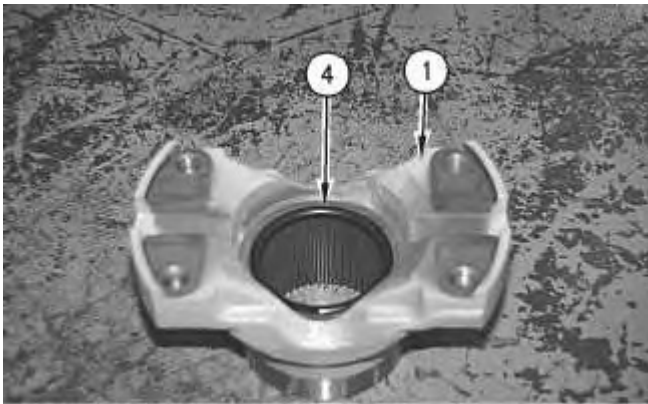


Illustration 2

g00356876

3. Remove O-ring seal (4) from yoke (1).

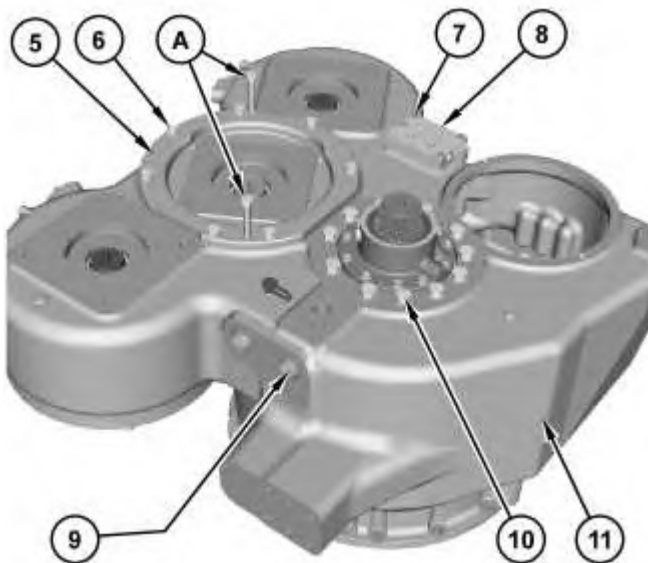


Illustration 3

g01450186

4. Remove bolts (6) and bolts (10).
5. Remove bolts (7), manifold (8), and the O-ring seals.
6. Remove orifice plug (9) (not shown) and the O-ring seal.
7. Install Tooling (A). Use Tooling (A) in order to separate pump adapter (5) from housing assembly (11).

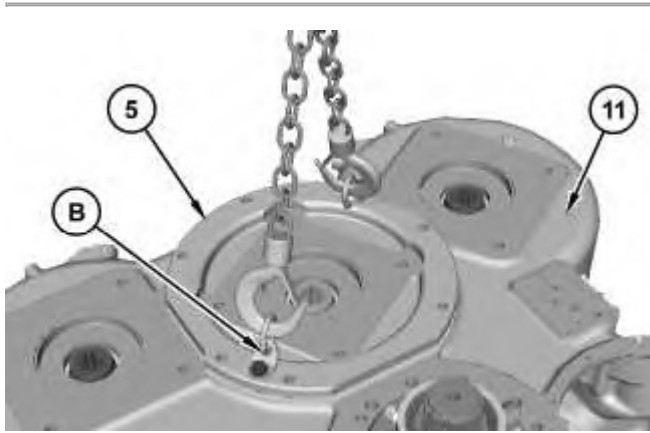


Illustration 4

g01450226

8. Attach Tooling (B) and a suitable lifting device to pump adapter (5). The weight of pump adapter (5) is approximately 50 kg (110 lb). Use Tooling (B) and the suitable lifting device in order to remove pump adapter (5) from housing assembly (11).



Illustration 5

g01450322

9. Remove lip seal (13), bearing cup (12), and O-ring seals (14) from pump adapter (5).
-

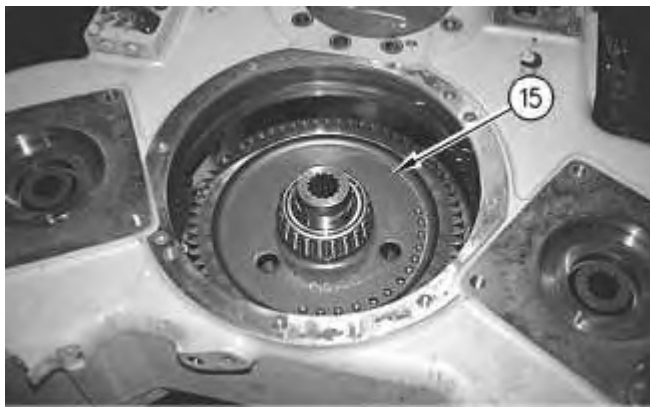


Illustration 6

g01450328

10. Use two people in order to remove idler gear (15). The weight of idler gear (15) is approximately 36 kg (80 lb).

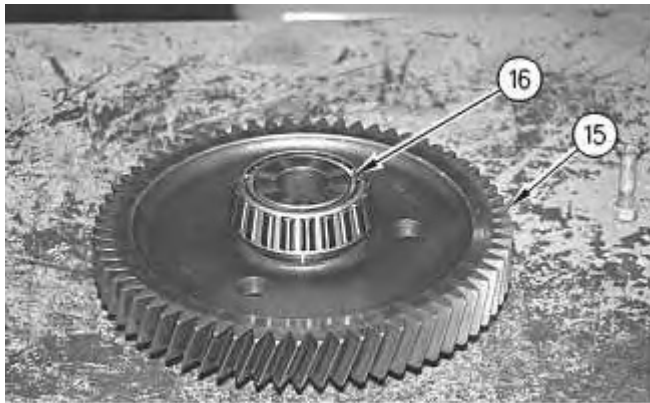


Illustration 7

g01450330

11. Remove bearing cones (16) from idler gear (15).

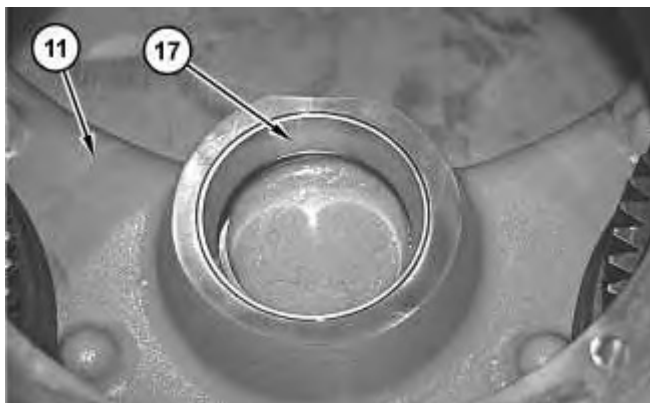


Illustration 8

g01450331

12. Remove bearing cup (17) from housing assembly (11).

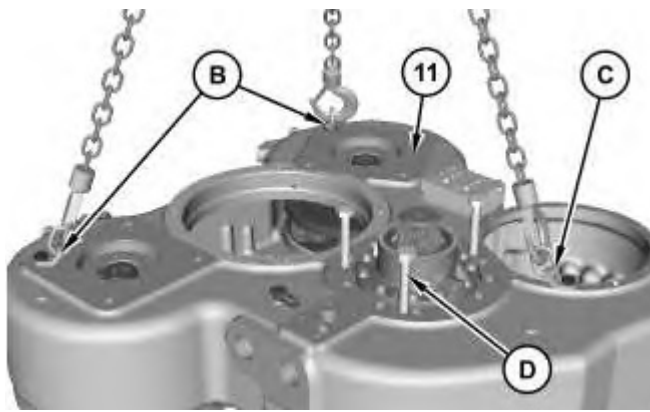


Illustration 9

g01450350

13. Attach Tooling (B), Tooling (C), and a suitable lifting device to housing assembly (11). The weight of housing assembly (11) is approximately 680 kg (1500 lb).
14. Install Tooling (D) to housing assembly (11). Use Tooling (D) in order to separate housing assembly (11) from the torque converter assembly.
15. Use Tooling (B), Tooling (C), and the suitable lifting devices in order to remove housing assembly (11).

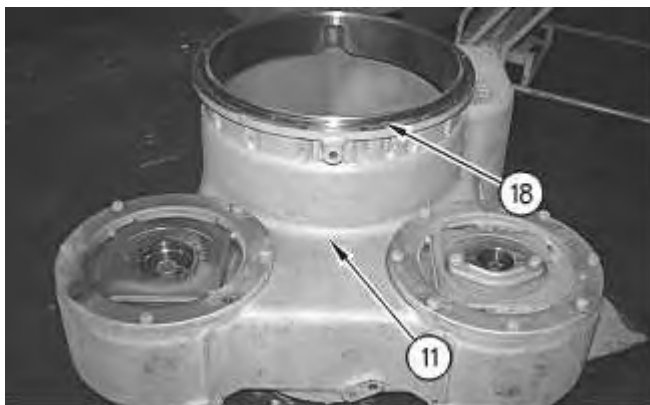
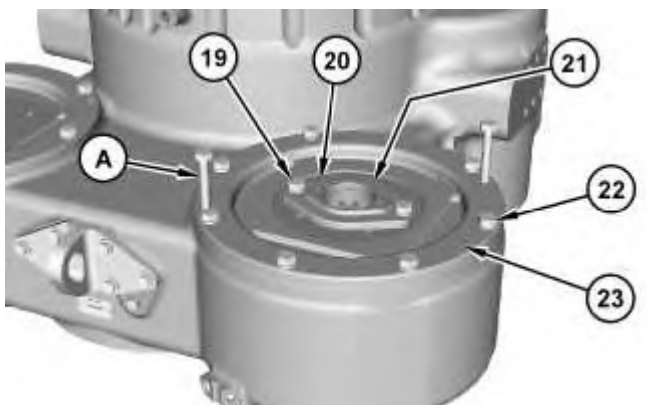


Illustration 10

g00357394

16. Position housing assembly (11) onto the opposite side and remove O-ring seal (18).



17. Remove bolts (19) and adapter (20) from housing assembly (11). Remove O-ring seal (21) (not shown).
18. Remove bolts (22).
19. Install Tooling (A) in order to separate pump adapter (23) from housing assembly (11).

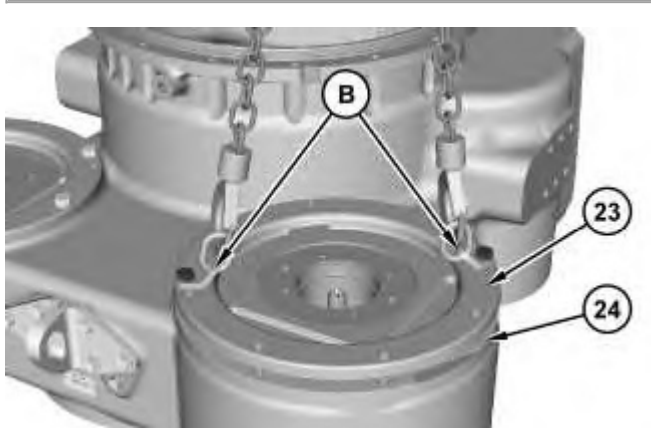


Illustration 12

g01450400

20. Attach Tooling (B) and a suitable lifting device to pump adapter (23). The weight of pump adapter (23) is approximately 50 kg (110 lb). Use Tooling (B) and the suitable lifting device in order to remove pump adapter (23). Remove shims (24).



Illustration 13

g01450423

21. Remove bearing cup (25) and O-ring seal (26) from pump adapter (23).
-



Illustration 14

g01450430

22. Use two people in order to remove pump drive gear (27) from housing assembly (11). The weight of pump drive gear (27) is approximately 27 kg (60 lb).

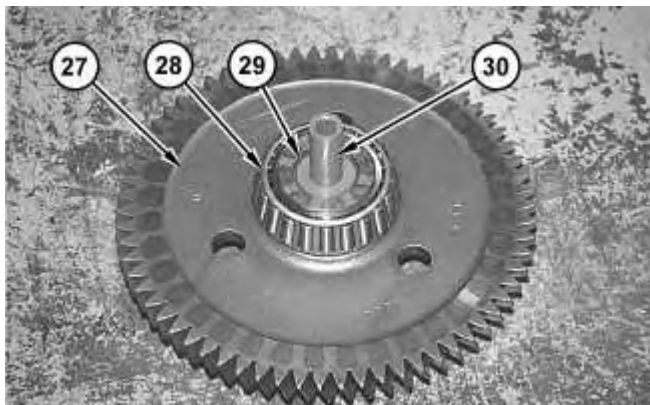


Illustration 15

g01450567

23. Remove retaining ring (29), spline adapter (30), and the O-ring seal from pump drive gear (27). Remove bearing cones (28).
24. Repeat Steps 18 through 23 in order to remove the remaining pump adapter.



Illustration 16

g01450584

25. Position torque converter assembly (33), as shown. The weight of torque converter assembly (33) is approximately 590 kg (1300 lb). Remove bolts (31). Install Tooling (E). Use Tooling (E) in order to separate pilot guide (32) from torque converter assembly (33). Remove pilot guide (32).

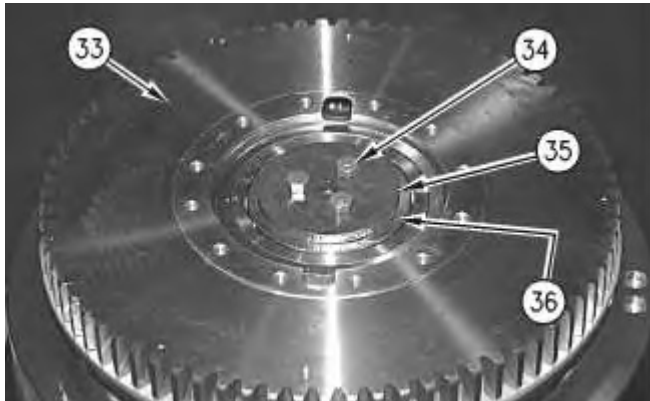


Illustration 17

g00357612

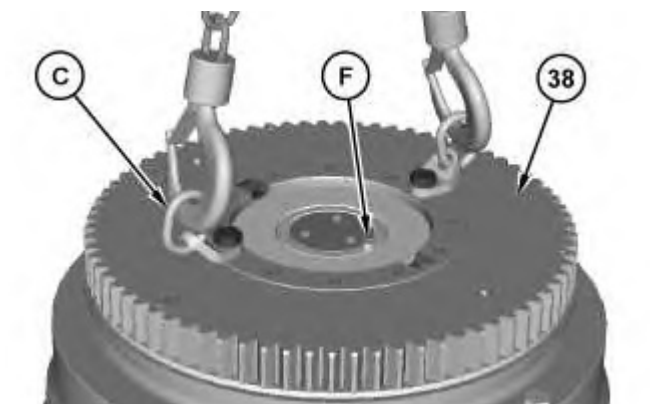
26. Position torque converter assembly (33), as shown.
27. Remove bolts (34), retainer (35), and washer (36) (not shown).



Illustration 18

g00357633

28. Remove bolts (37).



29. Attach Tooling (C) to clutch housing assembly (38). The weight of clutch housing assembly (38) is approximately 168 kg (370 lb). Install Tooling (F) in order to prevent the turbine assembly from separating from the bearing. Remove clutch housing assembly (38).

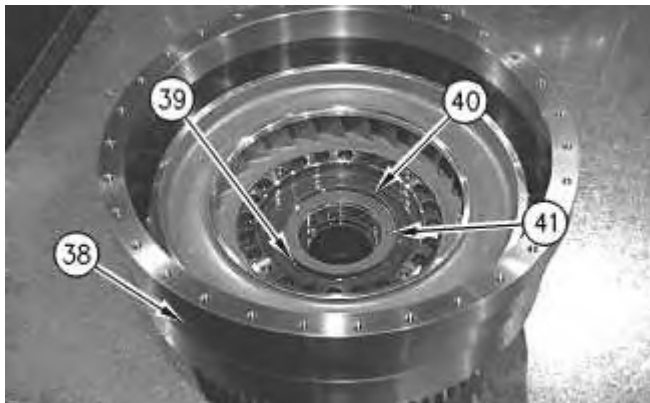


Illustration 20

g00357638

30. Position clutch housing assembly (38), as shown.
31. Remove bearing race (41), sleeve (40), and pins (39).

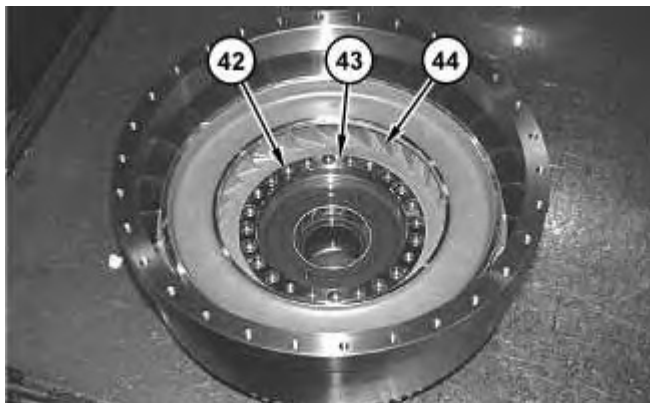


Illustration 21

g01450685

32. Remove bolts (42) and clamping plate (43). Remove turbine (44).

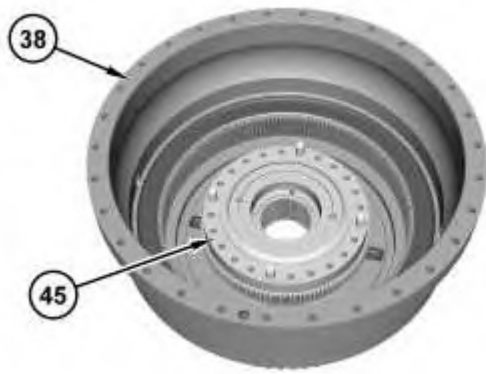


Illustration 22

g01452691

33. Remove Tooling (F) from turbine hub (45). Remove turbine hub assembly (45) from clutch housing assembly (38).

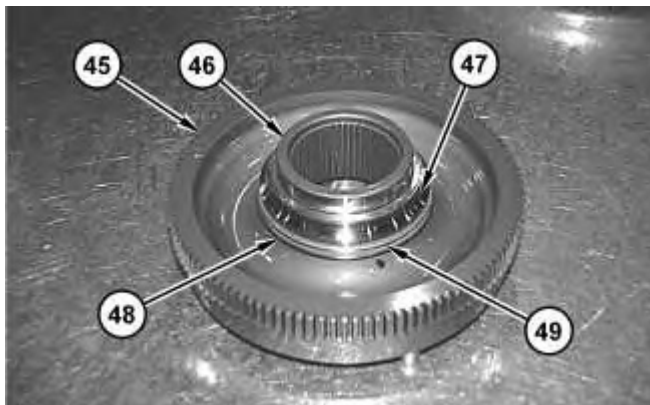


Illustration 23

g01452696

34. Remove race (47) from hub assembly (45). Remove seal carrier (48) and seal (49). Remove sleeve bearing (46).

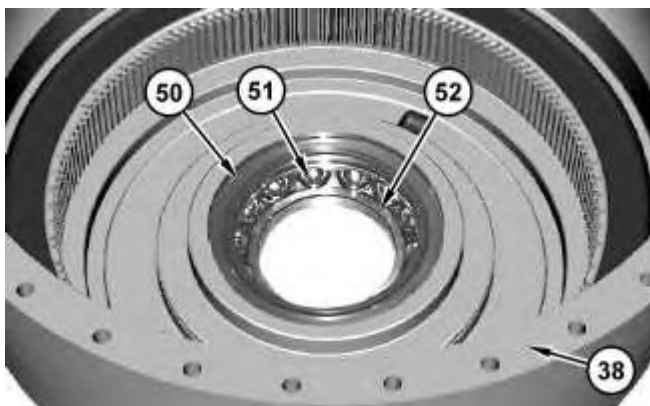


Illustration 24

g01452703

35. Remove sleeve (50). Remove bearing (51) and race (52) from clutch housing assembly (38).

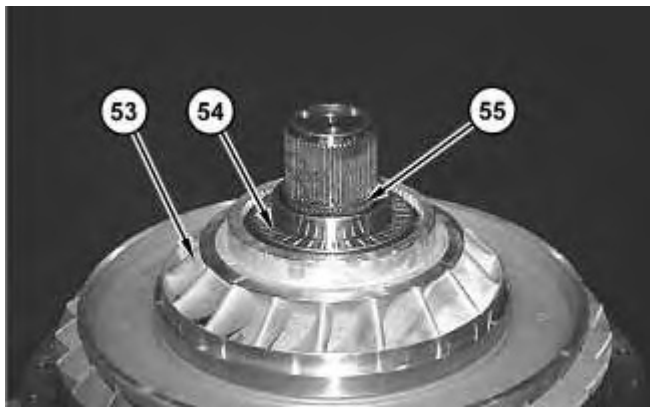


Illustration 25

g01452734

36. Remove retaining ring (55) and thrust bearing (54). Remove the carrier and stator assembly (53).

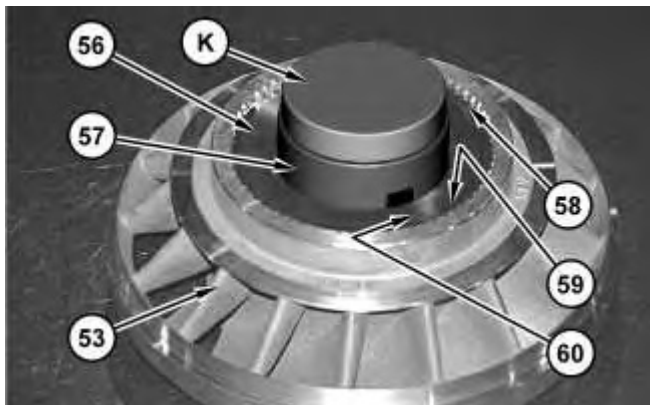


Illustration 26

g01452740

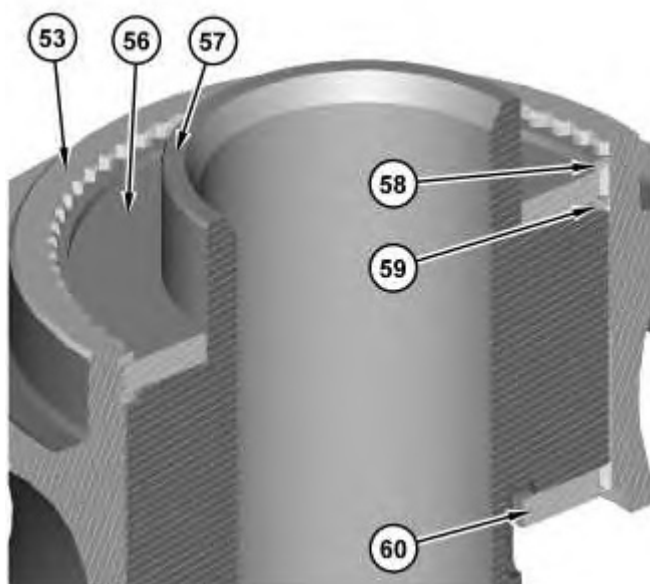


Illustration 27

g01452743

37. Remove retaining ring (58).
38. If necessary, position stator assembly (53) and carrier (57) onto a suitable press. Use Tooling (K) and the suitable press in order to remove carrier (57) from stator assembly (53). Remove plate (56). Remove plate (60) (not shown).
39. Remove retaining ring (59) (not shown).

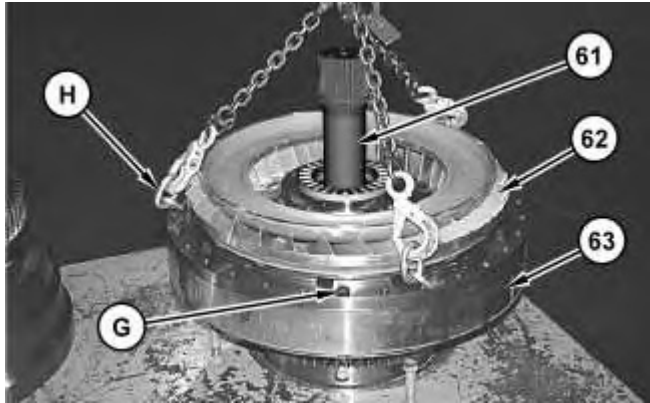


Illustration 28

g01452758

40. Install Tooling (G) in order to hold housing assembly (63) to the backing plate. Attach Tooling (H) and a suitable lifting device to the backing plate. The combined weight of housing assembly (63), impeller clutch (62), and the backing plate is approximately 181 kg (400 lb). Remove housing assembly (63), impeller clutch (62), and the backing plate from shaft assembly (61).

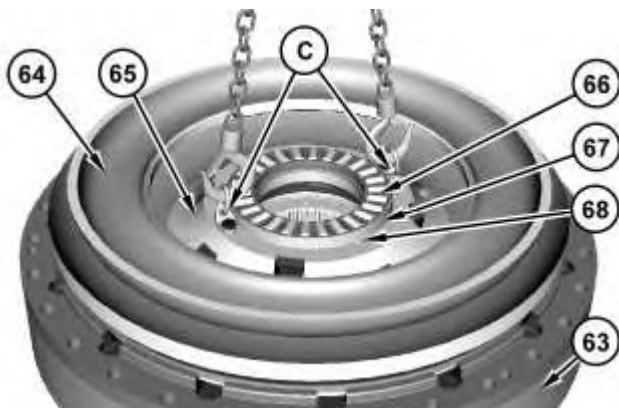


Illustration 29

g01452764

41. Remove thrust bearing (66), sleeve (67), and pins (68).
 42. Attach Tooling (C) and a suitable lifting device to impeller hub (65). The combined weight of impeller (64) and impeller hub (65) is approximately 57 kg (125 lb). Remove impeller (64) and impeller hub (65) from housing assembly (63).
-



Illustration 30

g01452774

43. Remove plate (69). If necessary, remove four dowel pins (70) (not shown). Remove twelve bolts (71) (not shown). Remove sleeve bearing (72). Use two people in order to remove adapter (73). The weight of adapter (73) is approximately 25 kg (55 lb).
-

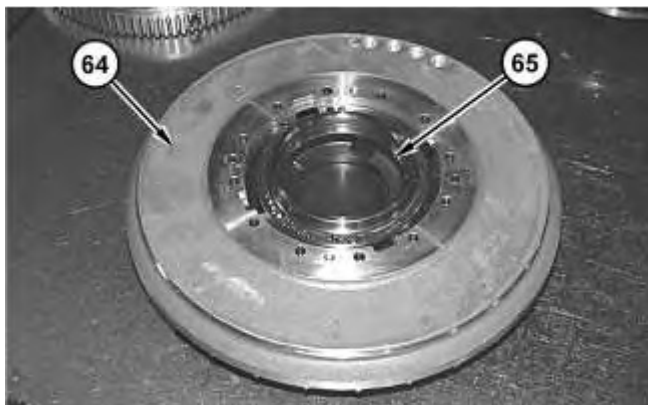


Illustration 31

g01452783

44. Remove impeller hub (65) from impeller (64).
-



Illustration 32

g01452792

45. Remove Tooling (G).

46. Attach Tooling (C) and a suitable lifting device to backing plate (74). The weight of backing plate (74) is approximately 25 kg (55 lb). Remove backing plate (74) from housing assembly (63).

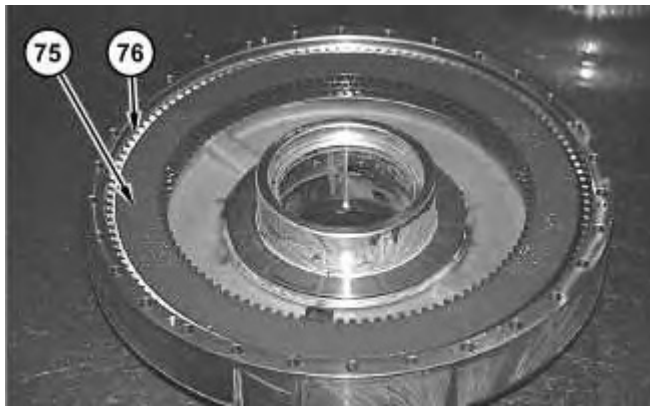


Illustration 33

g01452805

47. Remove discs (75) and plates (76).



Illustration 34

g01452810

48. Remove piston (77).



Illustration 35

g01452817

49. Remove seals (78).

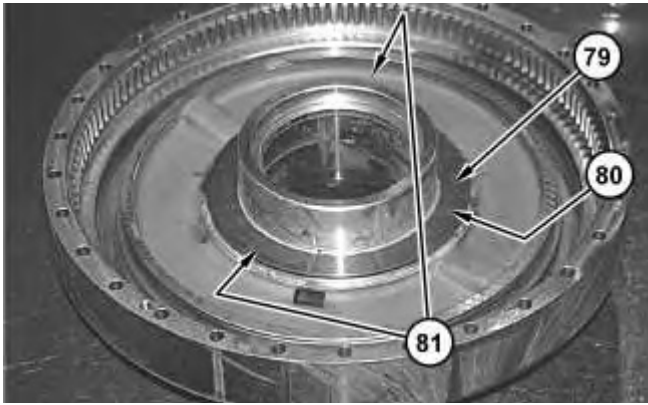


Illustration 36

g01452822

50. Remove thrust washer (79). Remove plate (80) (not shown) and two dowel pins (81) (not shown) that are located under thrust washer (79).

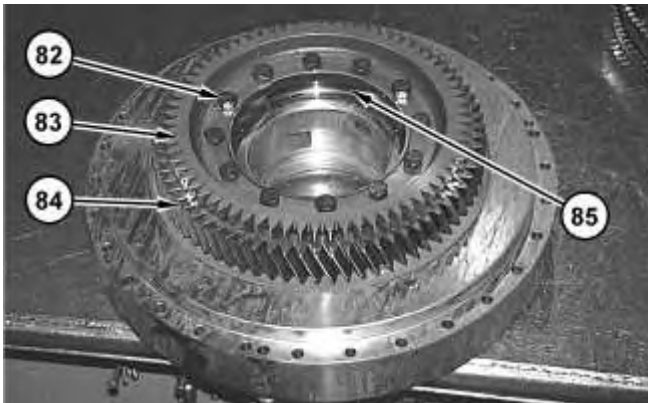


Illustration 37

g01452827

51. Remove bolts (82). Use two people in order to remove gear (83) and gear (84) as one unit. The combined weight of gear (83) and gear (84) is approximately 36 kg (80 lb). Remove bearing race (85) from gears (83) and (84).

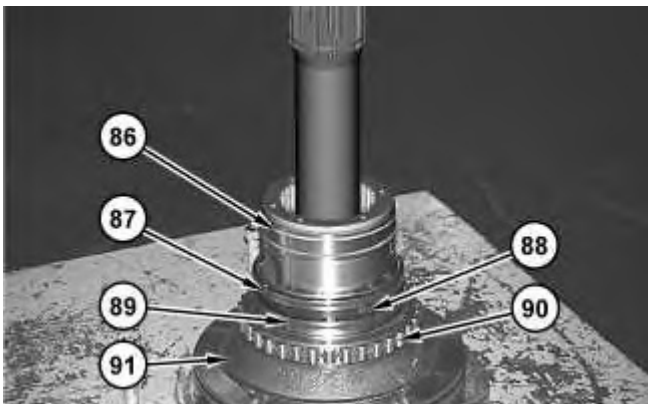


Illustration 38

g01452833

52. Remove seals (86) and seals (89).

53. Drive in locator pin (88) in order to remove seal carrier (89). Remove bearing (90) from carrier assembly (91).

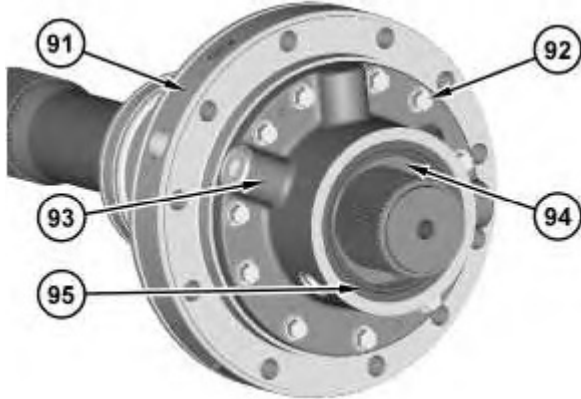


Illustration 39

g01452836

54. Reposition carrier assembly (91), as shown. The weight of carrier assembly (91) is approximately 79 kg (175 lb).

55. Remove bolts (92) and bearing cage (93) from carrier assembly (91).

56. Remove lip seal (95) from bearing cage (93). Remove spacer (94) from the shaft assembly.

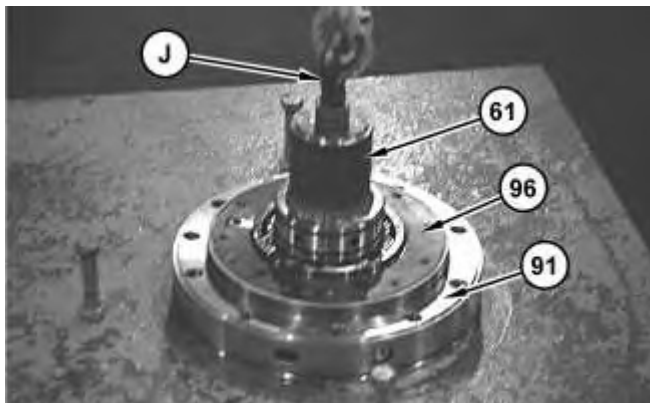


Illustration 40

g01452840

57. Attach Tooling (J) and a suitable lifting device to shaft assembly (61). The weight of shaft assembly (61) is approximately 26 kg (57 lb). Remove shaft assembly (61) from carrier assembly (91). Remove gasket (96).

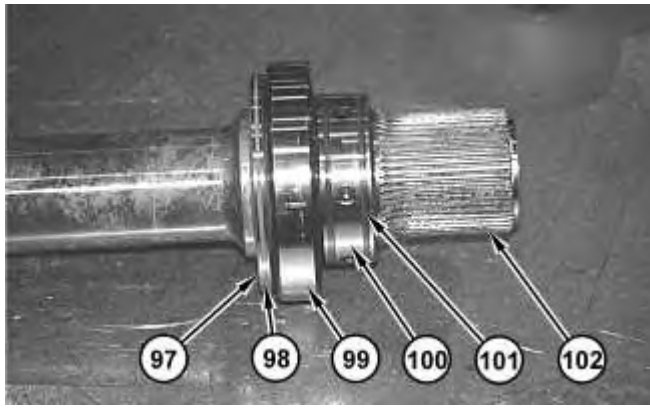


Illustration 41

g01452846

58. Remove seals (101) and seal carrier (100). Remove bearing (99) from shaft (102). Remove seal (98) and seal carrier (97).
-

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