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Product: WHEEL DOZER

Model: 834K WHEEL DOZER TWY

Configuration: 834K Wheel Dozer TWY00001-UP (MACHINE) POWERED BY C18 Engine

Disassembly and Assembly

836K Landfill Compactor, 834K Wheel Dozer and 988K Wheel Loader Power Train

Media Number -KENR6490-06

Publication Date -01/09/2015

Date Updated -05/12/2017

i02071477

Torque Converter (Lockup) - Disassemble

SMCS - 3101-015-L7

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	1
	138-7575	Link Bracket	2
B	5F-7366	Screw	1
	3H-0465	Plate	2
	1P-5546	Crossblock	1
	5H-7369	Puller Leg	2
	6B-6682	3/4" - 16 NF Nut	2
	1P-0520	Driver Gp	1
	4C-5653	Threaded Adapter	2
C	188-1456	Metric Eyebolt	1
D	138-7575	Link Bracket	2
E	138-7575	Link Bracket	3
F	5F-7366	Screw	1
	3H-0465	Plate	2
	1P-5546	Crossblock	1

G	5H-7369	Puller Leg	2
	8B-7551	Bearing Puller	1
	6B-6682	3/4" - 16 NF Nut	2
	1P-0520	Driver Gp	1
	5F-7366	Screw	1
	3H-0465	Plate	2
	1P-5546	Crossblock	1
	8B-7549	Puller Leg	2
	5F-7343	Bearing Puller	1
	6B-6682	3/4" - 16 NF Nut	2
	1P-0520	Driver Gp	1
	5F-7342	Adapter	2
H	1P-0520	Driver Gp	1
J	138-7574	Link Bracket	2

Start By:

- Remove the torque converter. Refer to Disassembly and Assembly, "Torque Converter - Remove" for the machine that is being serviced.
 - Remove the transmission oil pump. Refer to Disassembly and Assembly, "Transmission Oil Pump - Remove" for the machine that is being serviced.
 - Remove the torque converter outlet relief valve. Refer to Disassembly and Assembly, "Relief Valve (Torque Converter Outlet) - Remove" for the machine that is being serviced.
 - Remove the modulating valve for the torque converter impeller clutch. Refer to Disassembly and Assembly, "Modulating Valve (Torque Converter Impeller Clutch) - Remove" for the machine that is being serviced.
 - Remove the modulating valve for the torque converter lockup clutch. Refer to Disassembly and Assembly, "Modulating Valve (Torque Converter Lockup Clutch) - Remove" for the machine that is being serviced.
-



Illustration 1

g00673844

1. Place the torque converter assembly on cribbing. The weight of the torque converter assembly is 545 kg (1200 lb).

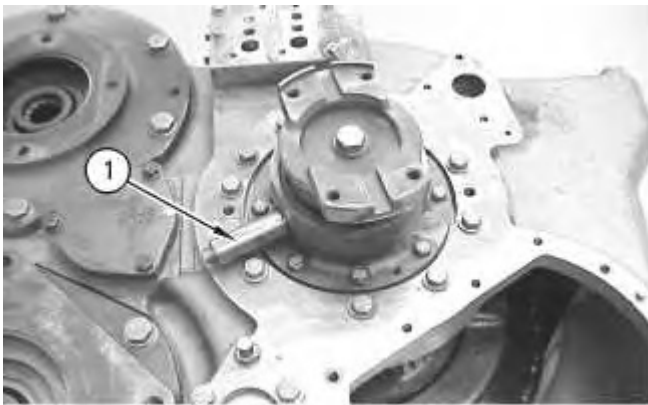


Illustration 2

g00660841

2. Remove speed sensor (1).

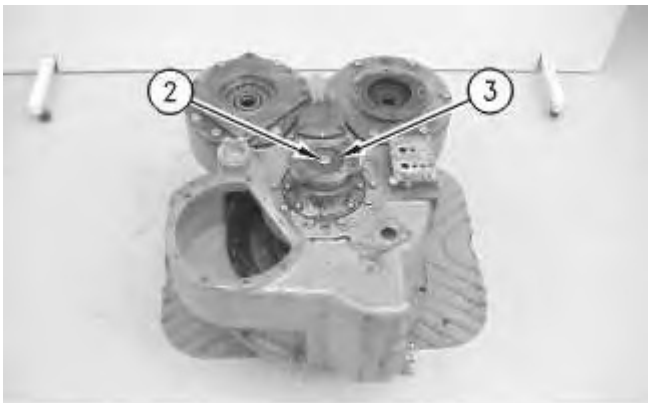


Illustration 3

g00665406

3. Remove bolt (2) and retainer (3).

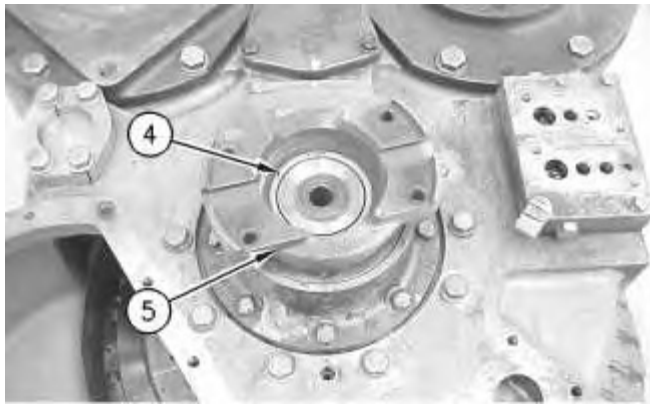


Illustration 4

g00665411

4. Remove O-ring seal (4) and yoke (5).



Illustration 5

g00665412

5. Remove eleven bolts (6) and the washers.



Illustration 6

g00665414

6. Install Tooling (A) to housing assembly.
7. Attach a suitable lifting device and lifting chains to Tooling (A).

8. Use M12 x 1.75 forcing screws in order to separate housing assembly from the torque converter.
9. Use the suitable lifting device in order to remove housing assembly. The weight of the housing assembly is 285 kg (630 lb).

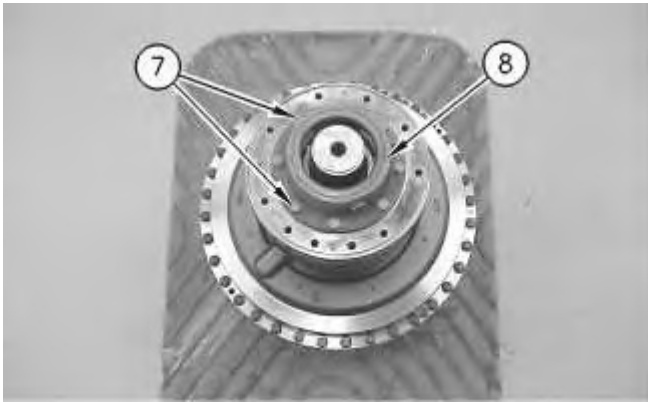


Illustration 7

g00660846

10. Remove eight bolts (7) and retainer (8).

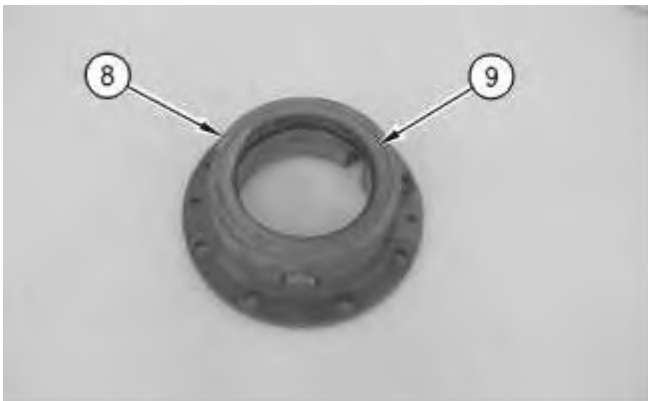
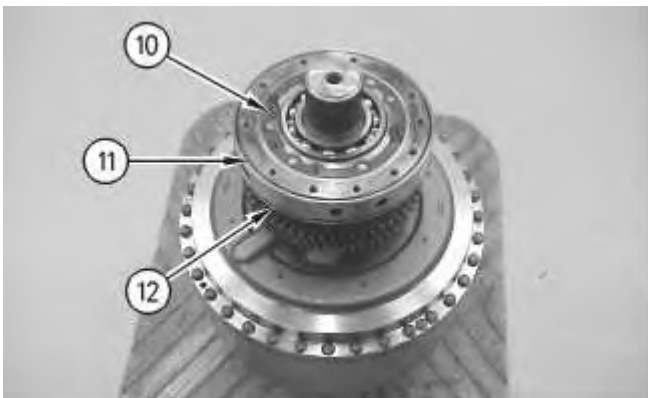


Illustration 8

g00660847

11. Remove seal (9) from retainer (8).



12. Remove gasket (10).
13. Remove O-ring seal (11) and (12).

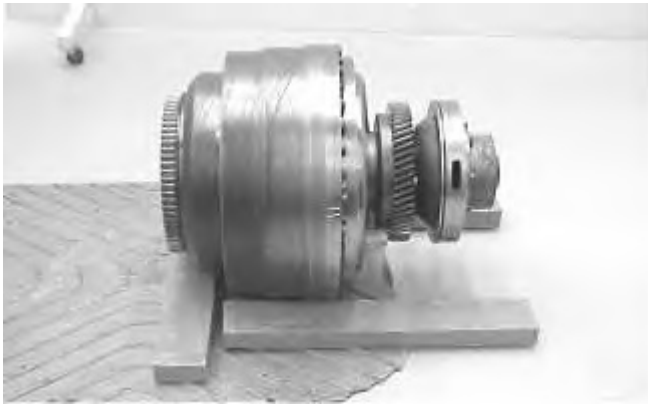


Illustration 10

g00673879

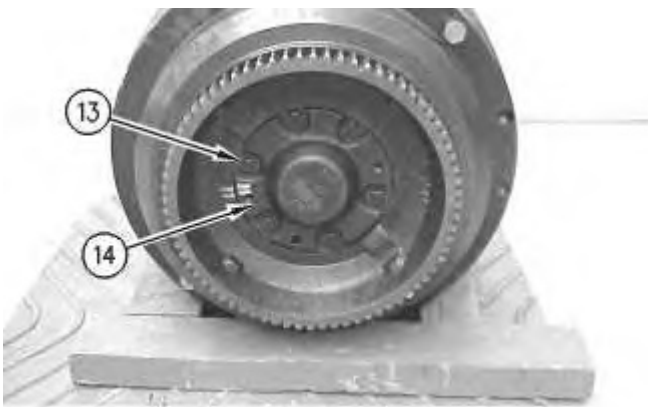
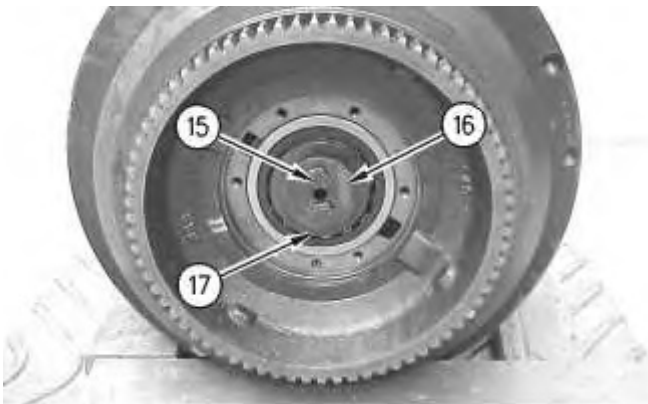


Illustration 11

g00673880

14. Position torque converter assembly onto the side, as shown.
15. Remove six bolts (13) and cover (14).



16. Remove two bolts (15), retainer (16), and washer (17).



Illustration 13

17. Use Tooling (B) in order to push the shaft out of the bearing.

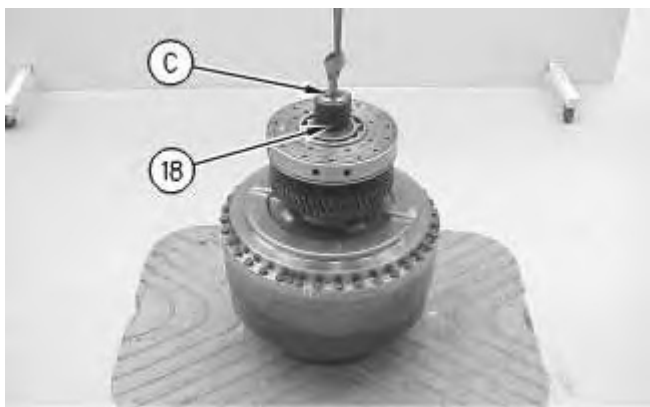


Illustration 14

18. Position torque converter assembly upright, as shown.
19. Install Tooling (C) to shaft assembly (18).
20. Attach a suitable lifting device and a sling to Tooling (C).
21. Use the suitable lifting device in order to remove shaft assembly (18). The weight of shaft assembly (18) is 17 kg (38 lb).
-

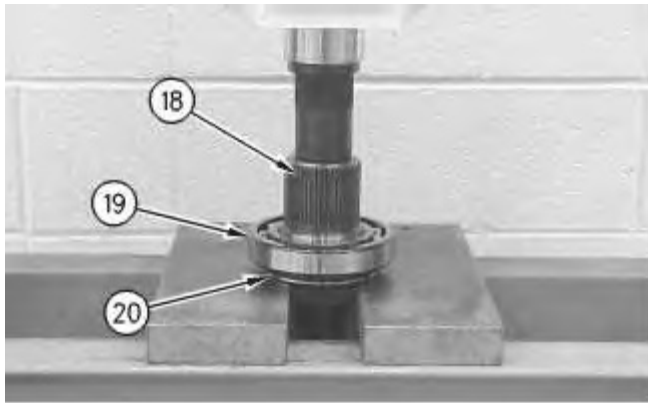


Illustration 15

g00673886

22. Use a suitable press in order to remove bearing (19) and seal carrier (20) from inner shaft (18).



Illustration 16

g01061064

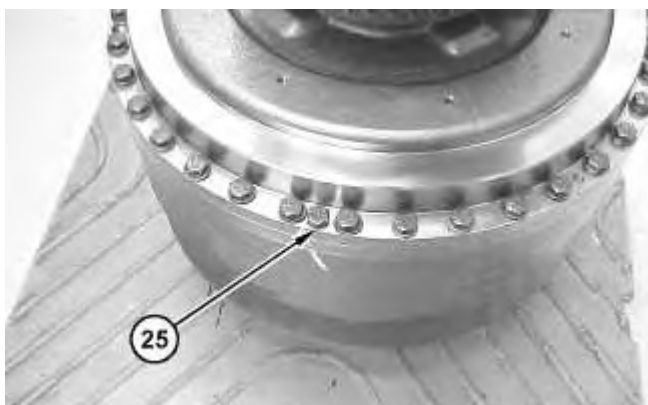


Illustration 17

g01061071

23. Remove 36 bolts (21), and washers (22). Do not remove two bolts (25) at this time.

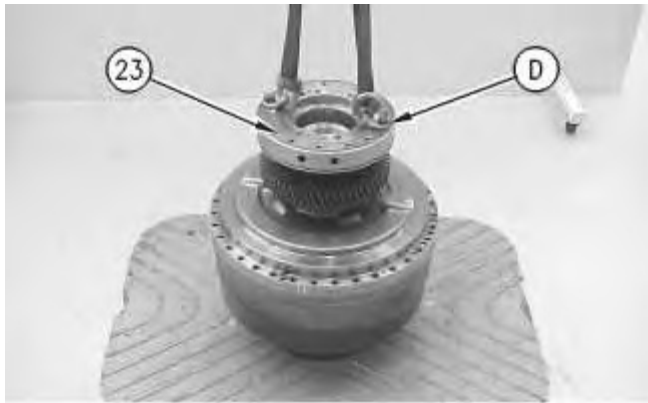


Illustration 18

g00673887

24. Install Tooling (D).
25. Attach a suitable lifting device and lifting slings to Tooling (D).
26. Use the suitable lifting device in order to remove carrier assembly (23). The weight of carrier assembly (23) is 132 kg (290 lb).

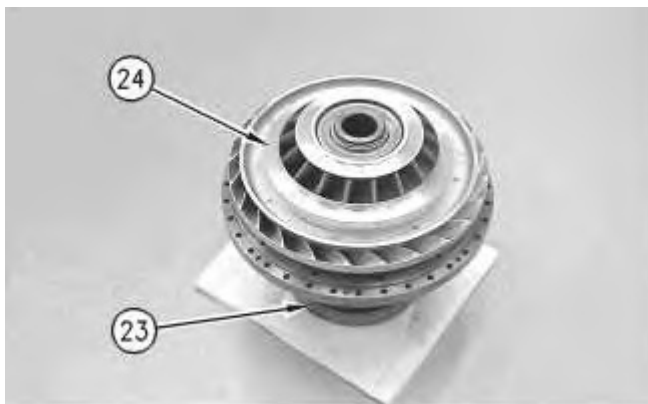
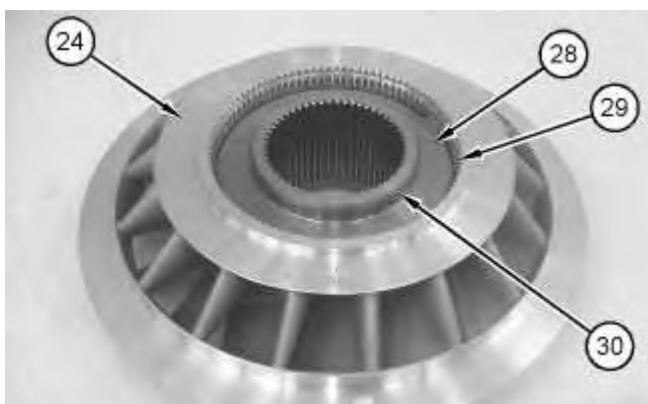


Illustration 19

g00673888

27. Place carrier assembly (23), as shown.
28. Remove stator (24).



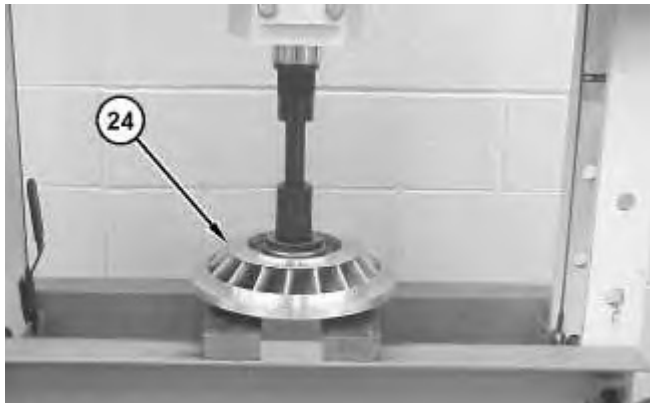


Illustration 21

g01061000

29. Remove retaining ring (29) and plate (28) from stator (24). Remove ring (26) (not shown), and plate (27) (not shown) from the other side of stator (24).
30. Use a suitable press in order to remove adapter (30) from stator (24).



Illustration 22

g00674499

31. Remove spacer (33).

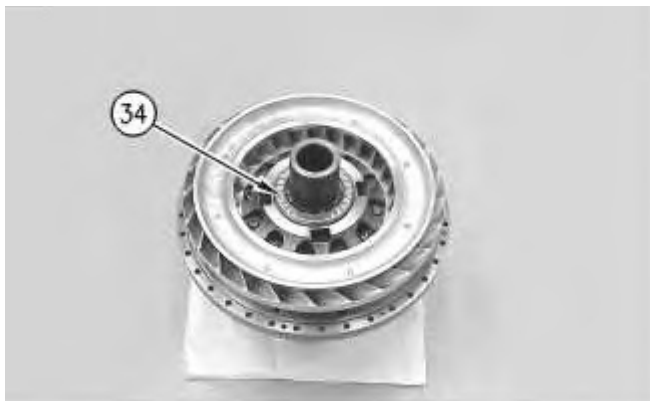


Illustration 23

g00674501

32. Remove bearing (34).
33. Remove the plate and the ring below bearing (34).



Illustration 24

g00674503

34. Remove retaining ring (35).



Illustration 25

g00674504

35. Use two persons in order to remove impeller (36). The weight of impeller (36) is 29 kg (65 lb).

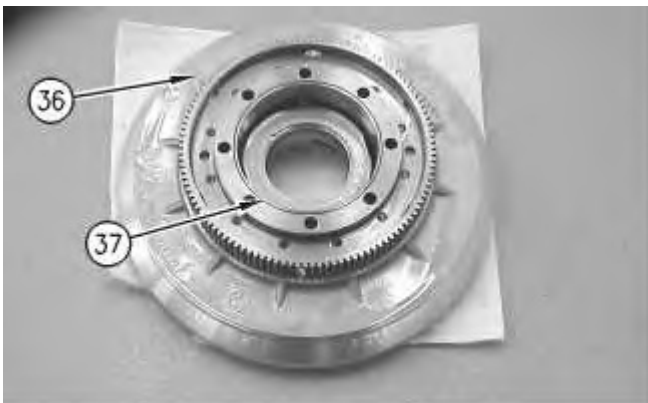


Illustration 26

g00674505

36. Remove race (37) from impeller (36).

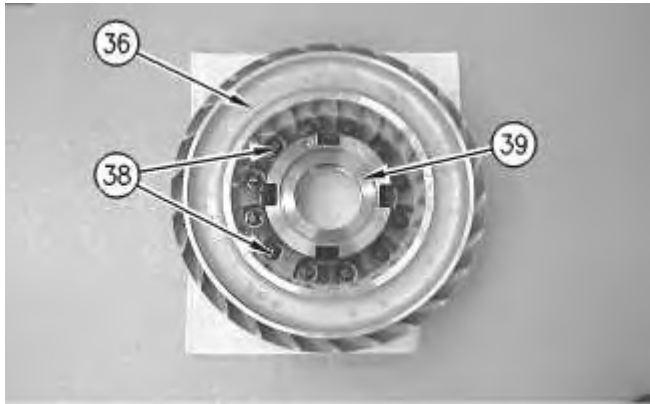


Illustration 27

g00674506

37. Remove twelve bolts (38) and the washers.

38. Remove impeller (36) from adapter assembly (39).

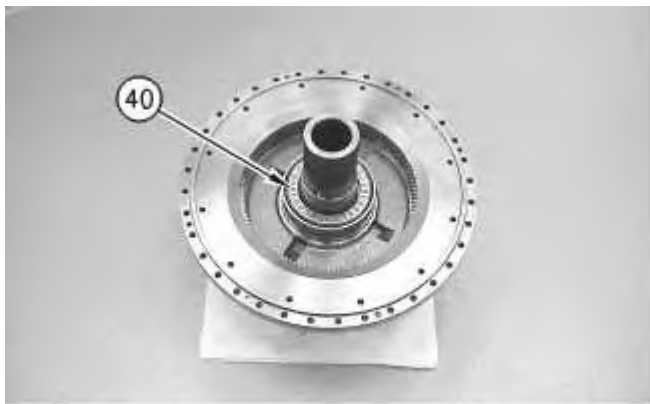
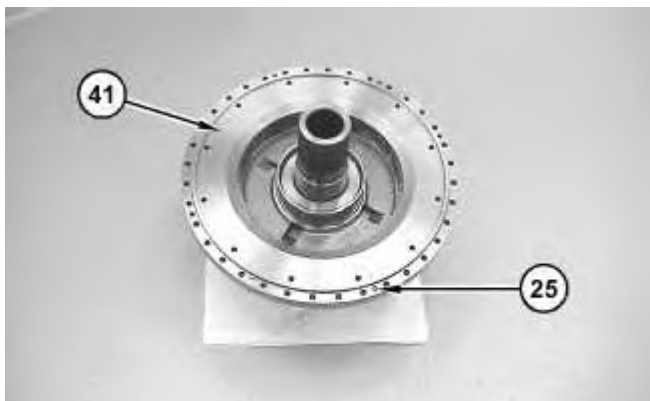


Illustration 28

g00674507

39. Remove bearing (40).

40. Remove the plate and the ring below bearing (40).



41. Remove two bolts (25) and plate (41).

Note: Bolts (25) are on the underside of plate (41).

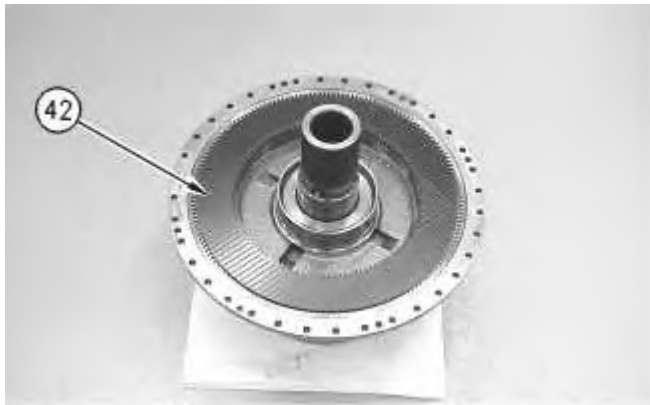


Illustration 30

g00674510

42. Remove two friction discs (42) and one wear plate.

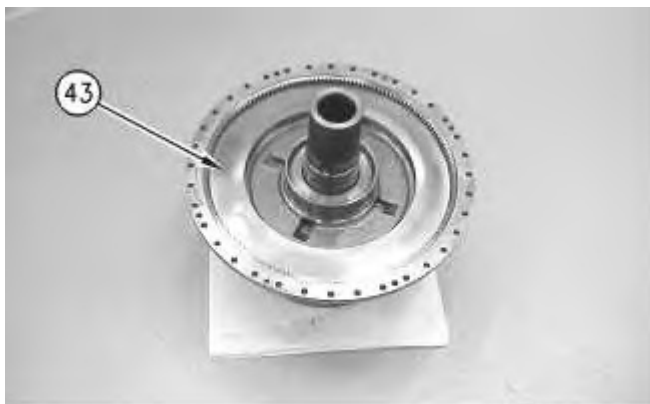
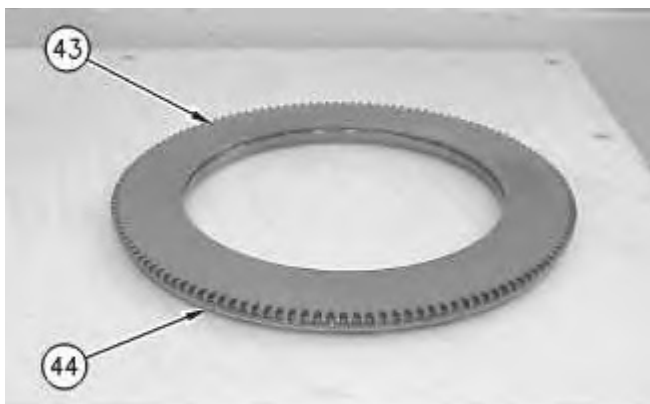


Illustration 31

g00674512

43. Remove piston (43).



44. Remove seal (44) from piston (43).

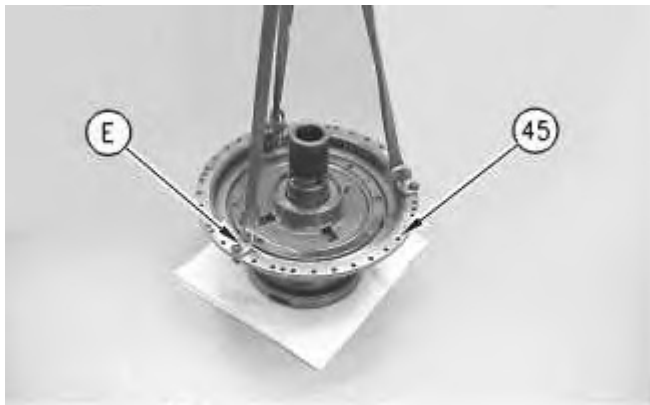


Illustration 33

45. Install Tooling (E) to housing assembly (45).
46. Attach a suitable lifting device and slings to housing assembly (45).
47. Use the suitable lifting device in order to remove housing assembly (45). The weight of housing assembly (45) is 45 kg (100 lb).

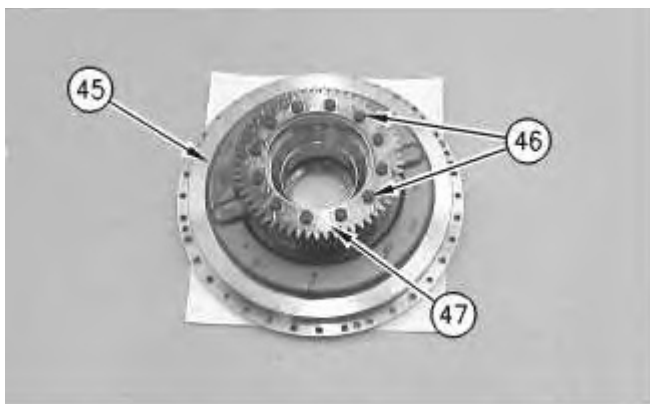


Illustration 34

48. Remove twelve bolts (46) and gear (47) from housing assembly (45).
-

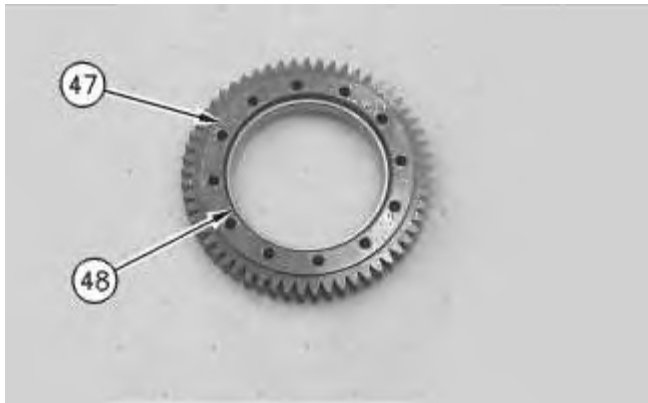


Illustration 35

g00674520

49. Remove race (48) from gear (47).

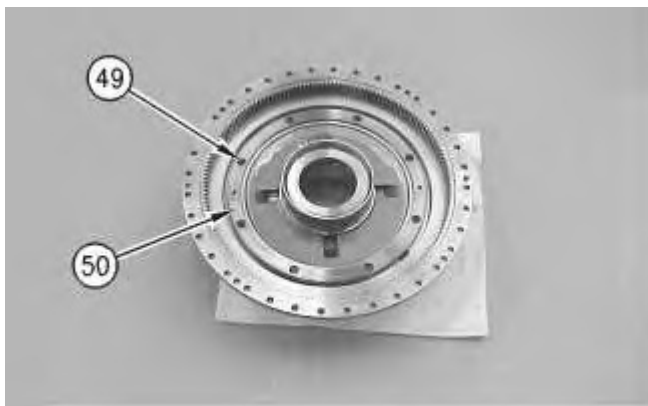


Illustration 36

g00674521

50. Remove eight bolts (49) and sleeve (50).

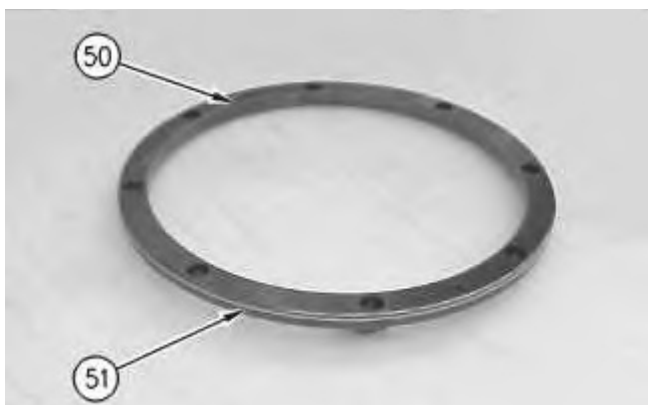


Illustration 37

g00674522

51. Remove seal (51) from sleeve (50).



Illustration 38

g00674523

- 52. Remove seal (52).
- 53. Remove two seals (53).
- 54. Remove retaining ring (54).

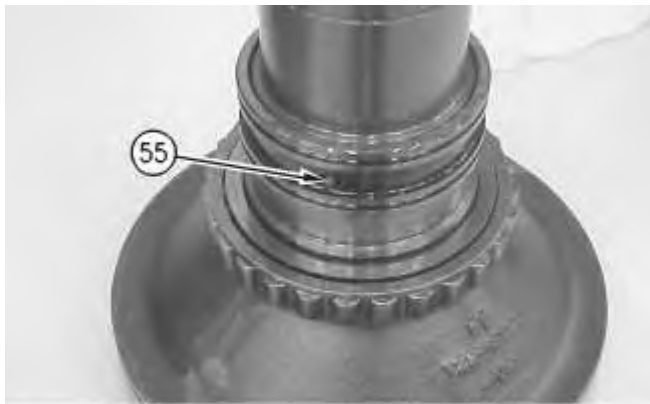


Illustration 39

g00674524

- 55. Use a hammer and a punch in order to remove pin (55).

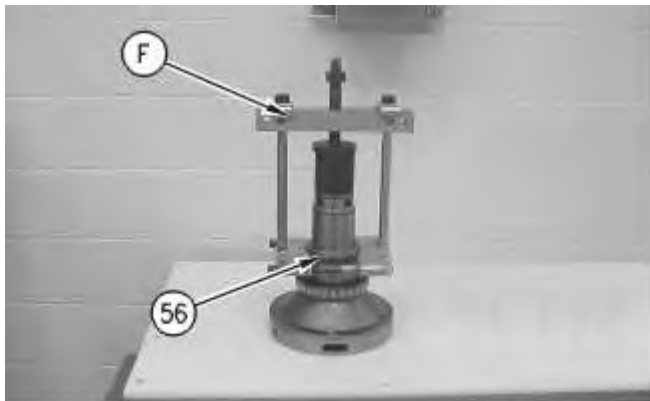


Illustration 40

g00674721

- 56. Use Tooling (F) in order to remove ring carrier (56).

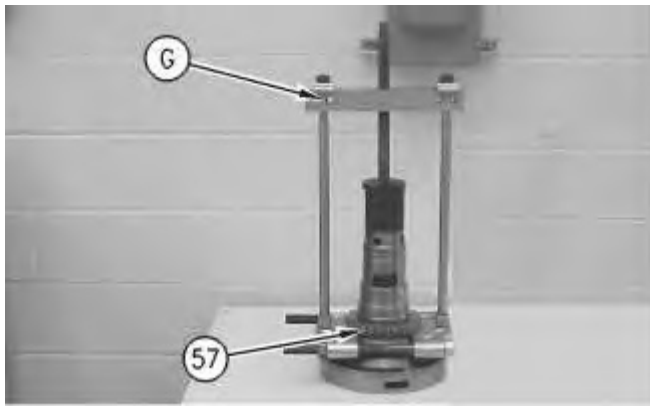


Illustration 41

g00674722

57. Use Tooling (G) in order to remove bearing (57).
-

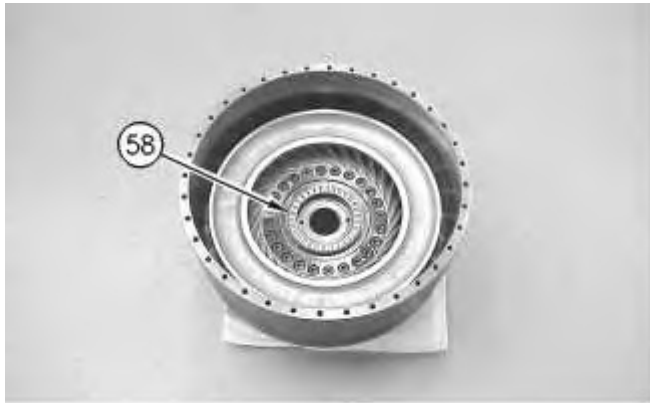


Illustration 42

g00674723

58. Remove bearing (58).
59. Remove the plate and the ring below bearing (58).
-



Illustration 43

g00674725

60. Use appropriate equipment to turn the housing onto the opposite side.

61. Remove O-ring seal (59) and two plugs (60).

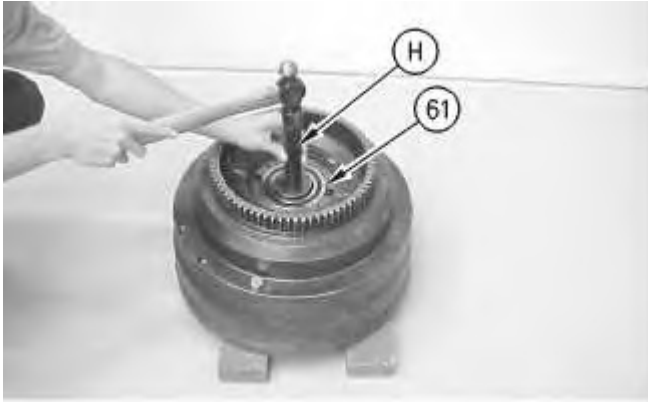


Illustration 44

g00674726

62. Use suitable cribbing in order to support the turbine and hub assembly. Place the cribbing inside the housing assembly.
63. Use Tooling (H) in order to remove the hub from bearing (61).



Illustration 45

g00674727

64. Remove bearing (61).

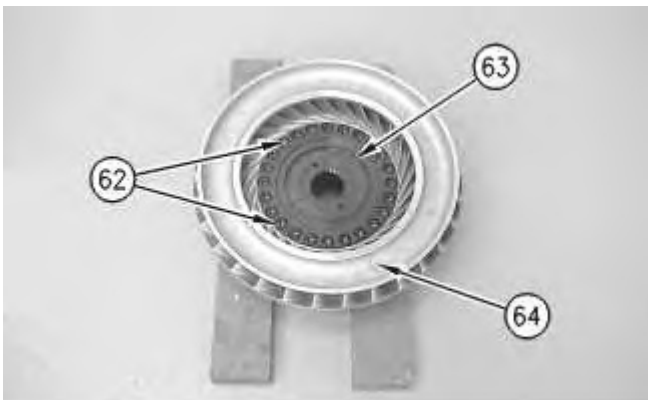


Illustration 46

g00674744

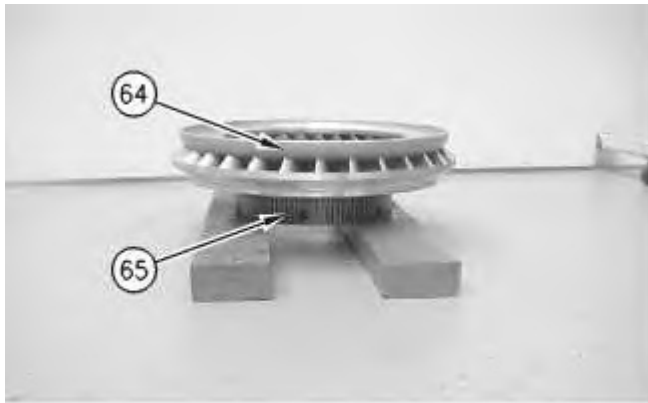


Illustration 47

g00674747

65. Remove 24 bolts (62) and hub (63) from turbine (64).
66. Remove clutch adapter (65).

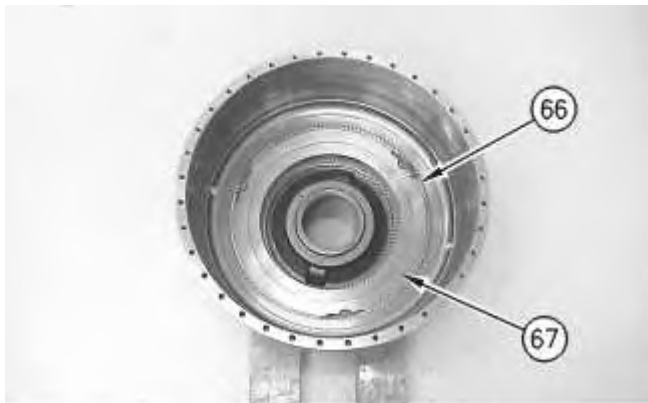


Illustration 48

g00674748

67. Remove retaining ring (66) and plate (67).



Illustration 49

g00674750

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