Product: WHEEL DOZER
Model: 824K WHEEL DOZER 234
Configuration: 824K Wheel Dozer 23400001-UP (MACHINE) POWERED BY C15 Engine

Disassembly and Assembly
826K Landfill Compactor, 825K Soil Compactor and 824K Wheel Dozer Power Train
Media Number -UENR3842-01 **Publication Date -01/02/2015** **Date Updated -23/06/2017**

i05755692

Transmission Planetary - Disassemble

SMCS - 3160-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	439-3938	Link Bracket	2
B	FT-0833	Clamp	2
C	3P-2209	Clamp	2
D	2P-2345	Spanner Wrench	1
E	395-1101	Lifting Eye Assembly	1
F	1P-0510	Driver Gp	1
G	1P-0074	Slide Hammer Puller Gp	1
H	1P-0520	Driver Gp	1

Start By:

a. Separate the transmission from the torque converter.

b. Remove the transmission hydraulic control valve.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

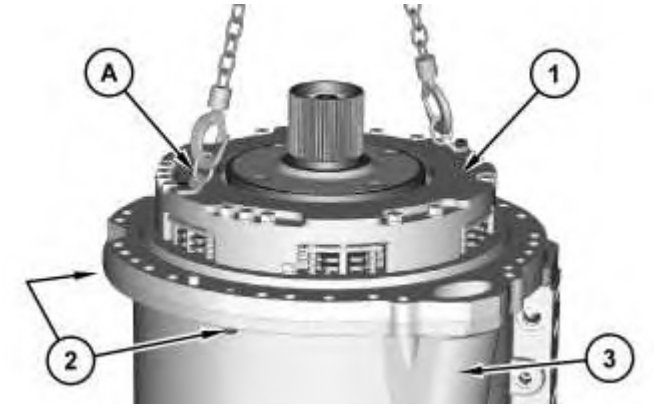

Illustration 1 g03654101

1. Attach Tooling (A) and a suitable lifting device to planetary assembly (1). The weight of planetary assembly (1) is approximately 565 kg (1246 lb).
2. Remove bolts (2) and the washers. Use Tooling (A) and the suitable lifting device in order to remove planetary assembly (1) from transmission housing (3).
3. Position planetary assembly (1) onto suitable cribbing. Do not remove Tooling (A) at this time.

   Note: Put alignment marks across the clutch housings for assembly purposes.

Illustration 2 g03654155

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.

4. Attach Tooling (B) to clutch housing (4) in order to secure the clutch piston.
5. Remove bolts (5) and the washers. Use Tooling (A) and the suitable lifting device in order to remove clutch housing (4). The weight of clutch housing (4) is approximately 32 kg (70 lb).
6. Remove springs (6).

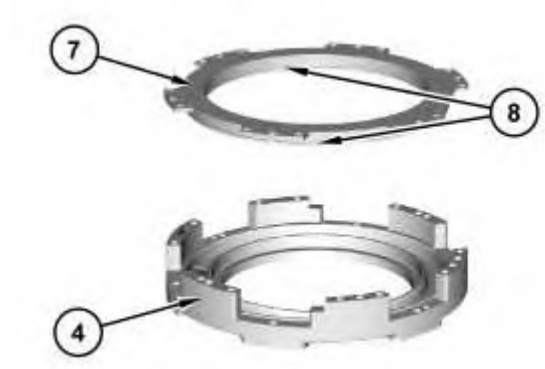

Illustration 3 g03654216

7. Remove clutch piston (7) from clutch housing (4).
8. Remove ring seals (8) from clutch piston (7).

Illustration 4 g03654228

9. Remove friction discs (9) and clutch plates (10).
10. Remove dowels (11).

Illustration 5 g03654233

11. Remove ring gear (12).

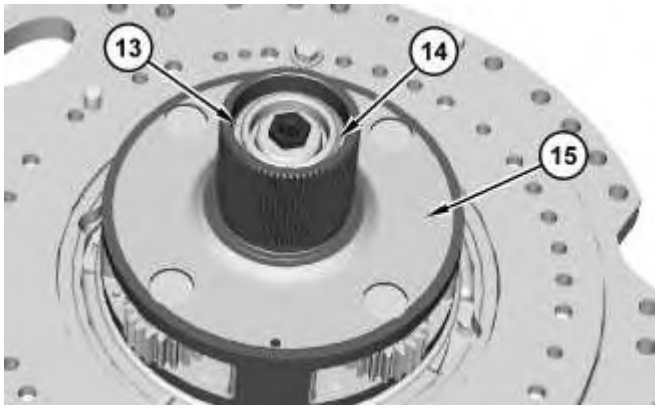

Illustration 6 g03654239

12. Remove retaining ring (14) and spacer (13).
13. Remove carrier assembly (15).

Illustration 7 g03654246

14. Use a suitable drift pin in order to bend locks (17) from bolts (16). Remove bolts (16), locks (17), slinger (18), and the gaskets from carrier assembly (15).

Illustration 8 g03654253

15. Use a suitable punch in order to drive spring pin (20) into shaft (19). Remove shaft (19) and spring pin (20) from carrier assembly (15). Remove spring pin (20) from shaft (19).

Illustration 9 g03654633

16. Remove thrust disc (21), planetary gear (23), and thrust disc (24) from carrier assembly (15).
17. Remove bearings (22) from planetary gear (23).
18. Repeat Steps 15 through 17 for the remaining planetary gears (23).

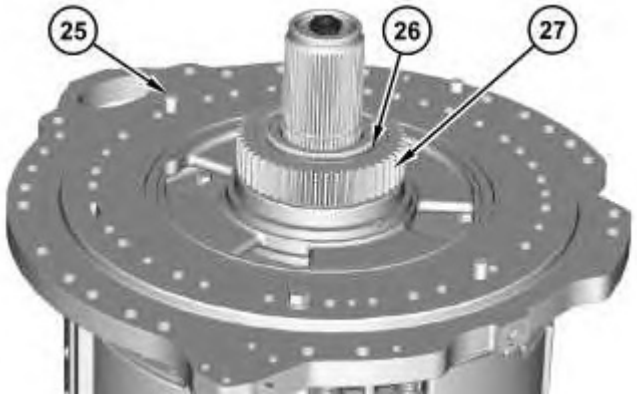

Illustration 10 g03654651

19. Remove dowels (25).
20. Remove retaining ring (26) and sun gear (27).

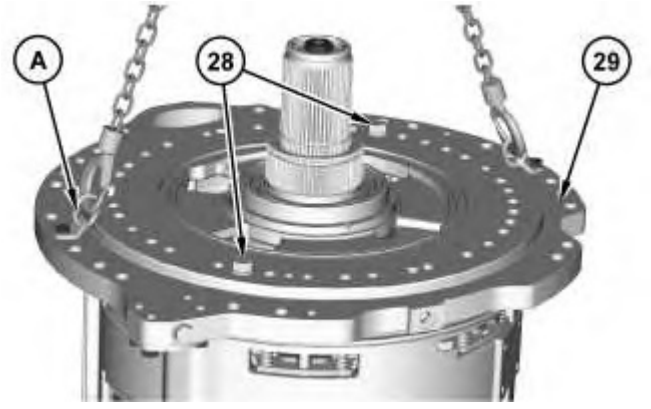

Illustration 11 g03654658

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.

21. Attach Tooling (A) and a suitable lifting device to manifold assembly (29). The weight of manifold assembly (29) is approximately 73 kg (160 lb).
22. Remove bolts (28) and the washers. Use Tooling (A) and the suitable lifting device in order to remove manifold assembly (29).

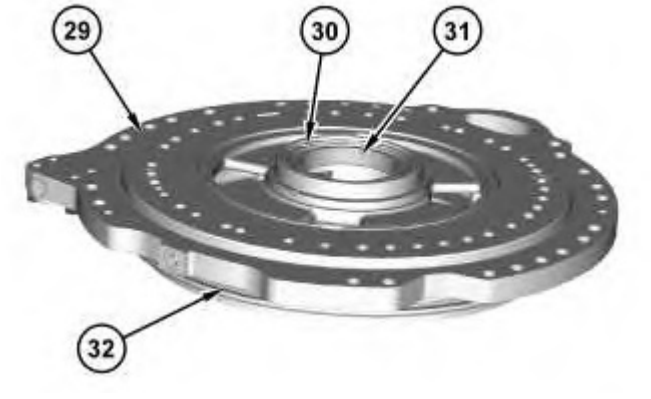

Illustration 12 g03654672

23. Remove retaining ring (30) and bearing (31) from manifold assembly (29).

24. Remove O-ring seal (32).

Illustration 13 g03654699

25. Remove friction disc (33), clutch plate (34), friction disc (35), dowels (36), and springs (37).

Illustration 14 g03654713

26. Remove clutch piston (38). Remove ring seals (39) from clutch piston (38).

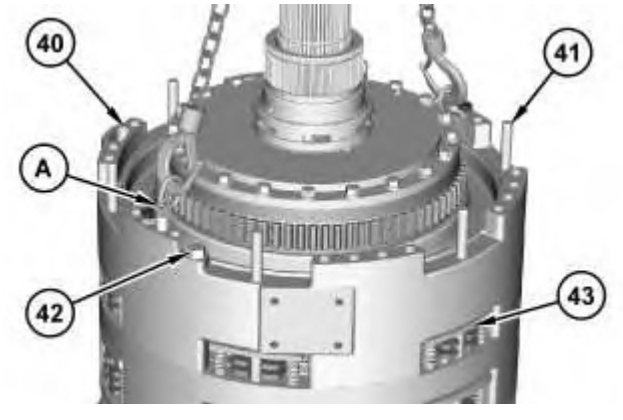

Illustration 15 g03654717

WARNING

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Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

27. Remove dowels (41).
28. Attach Tooling (A) and a suitable lifting device to clutch housing (40). The weight of clutch housing (40) is approximately 44 kg (97 lb).
29. Attach Tooling (C) (not shown) to clutch housing (40) in order to secure clutch piston (43) to clutch housing (40).
30. Remove bolts (42).
31. Use Tooling (A) and the suitable lifting device in order to remove clutch housing (40).

Illustration 16 g03654770

32. Remove clutch piston (43) from clutch housing (40). Remove ring seals (44) from clutch piston (43).

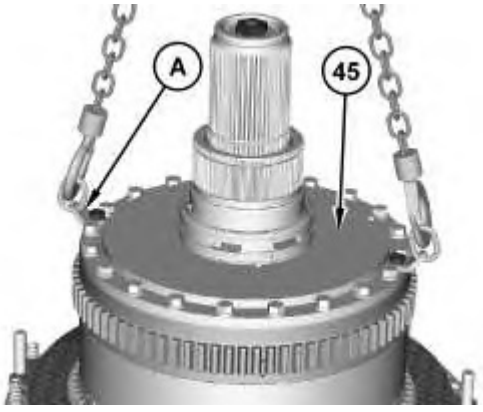

Illustration 17 g03654779

33. Attach Tooling (A) and a suitable lifting device to clutch housing (45). The weight of clutch housing (45) is approximately 45 kg (100 lb). Use Tooling (A) and the suitable lifting device in order to remove clutch housing (45).

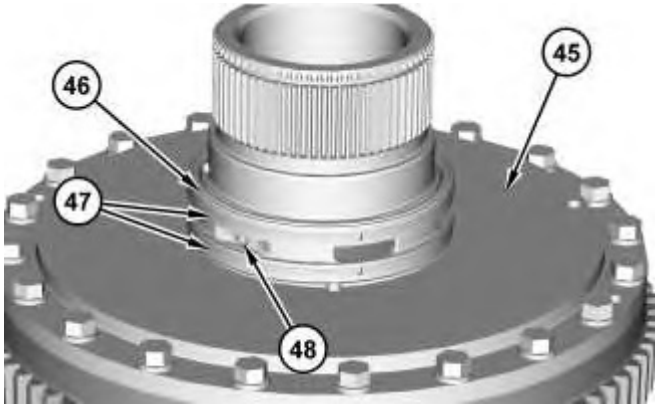

Illustration 18 g03654799

34. Remove seal rings (47) from ring carrier (46).

35. Check the condition of ring carrier (46). If ring carrier (46) is worn or damaged, use new parts for replacement. DO NOT try to remove a damaged or worn ring carrier (46). Use a suitable hammer and chisel in order to break ring carrier (46). Remove the damaged ring carrier (46) and pin (48) from clutch housing (45).

Illustration 19 g03654815

36. Remove bolts (50) and the washers. Remove ring gear (49).

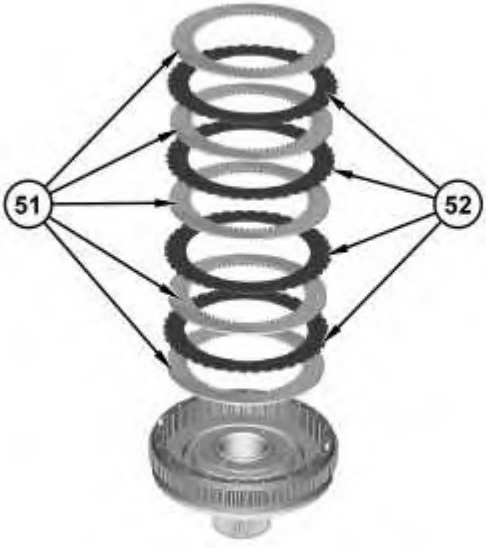

Illustration 20 g03654849

37. Remove friction discs (51) and clutch plates (52).

Illustration 21 g03654853

38. Remove dowels (53). Remove rotating housing (54).

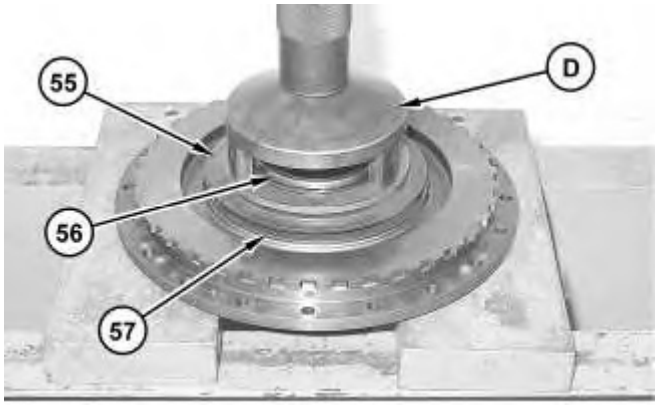

Illustration 22 g03654886

WARNING

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Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

39. Use Tooling (D) and a suitable press in order to apply force onto retainer plate (55) until retaining ring (56) can be removed. Release the force. Remove retainer plate (55) and remove disc springs (57).

Illustration 23 g03654865

40. Remove clutch piston (58) from clutch housing (45). Remove ring seals (59) from clutch piston (58).

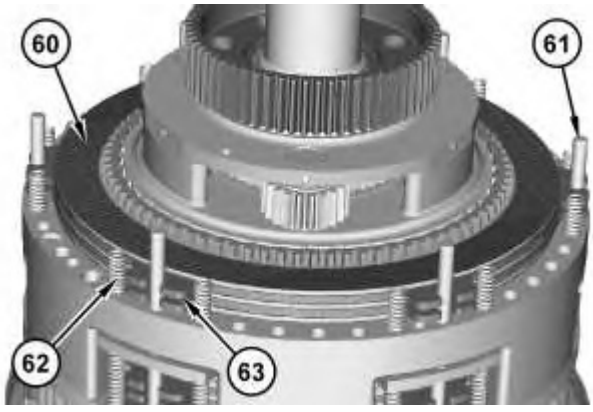

Illustration 24 g03654999

41. Remove friction discs (60) and clutch plates (63).
42. Remove dowels (61) and springs (62).

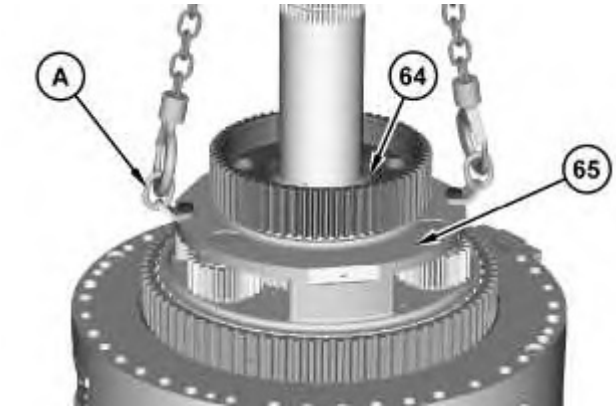

Illustration 25 g03655005

43. Remove retaining ring (64).
44. Attach Tooling (A) and a suitable lifting device to carrier assembly (65). The weight of carrier assembly (65) is approximately 26 kg (57 lb). Use Tooling (A) and the suitable lifting device in order to remove carrier assembly (65).

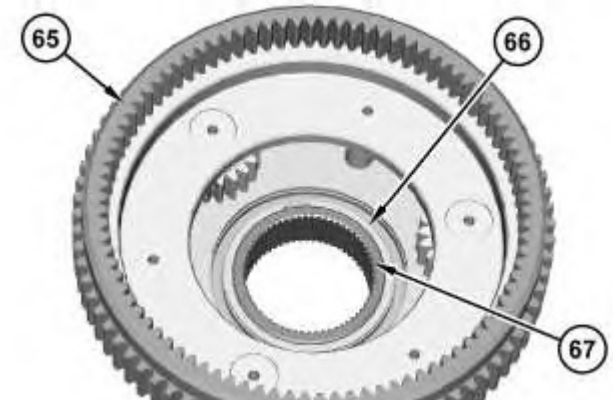

Illustration 26 g03655014

45. Remove retaining ring (66). Remove hub assembly (67) from carrier assembly (65).

Illustration 27 g03655018

46. Use a suitable screw driver in order to compress retaining ring (68) (not shown). Remove ring gear (69) from carrier assembly (65).

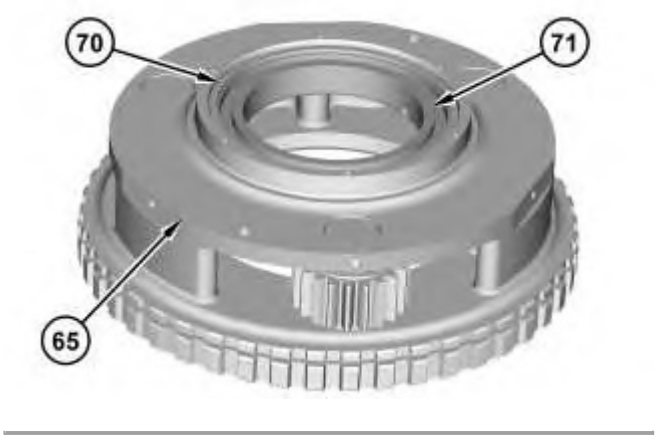

Illustration 28 g03655027

47. Remove retaining ring (70). Remove bearing (71) from carrier assembly (65).

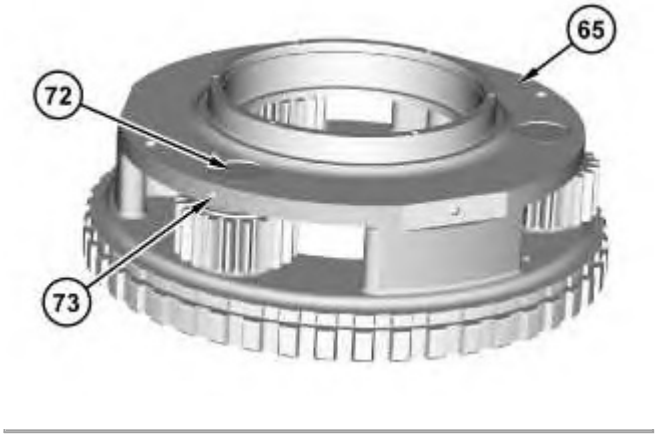

Illustration 29 g03655030

48. Use a suitable punch in order to drive spring pin (73) into shaft (72). Remove shaft (72) and spring pin (73) from carrier assembly (65). Remove spring pin (73) from shaft (72).

Illustration 30 g03655043

49. Remove thrust disc (74), planetary gear (75), and thrust disc (77) from carrier assembly (65).

50. Remove bearing (76) from planetary gear (75).

51. Repeat Steps 48 through 50 for the remaining planetary gears (75).

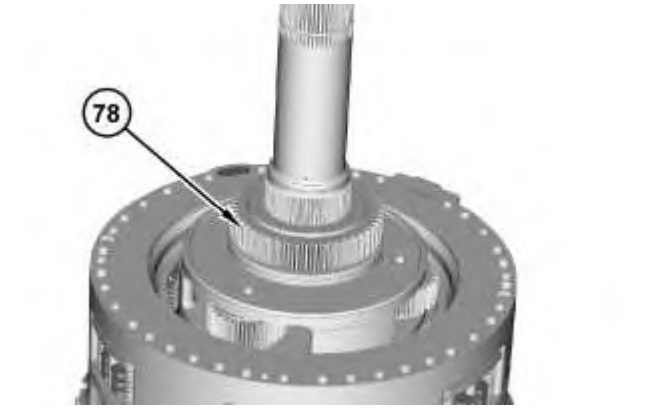

Illustration 31 g03655052

52. Remove sun gear (78).

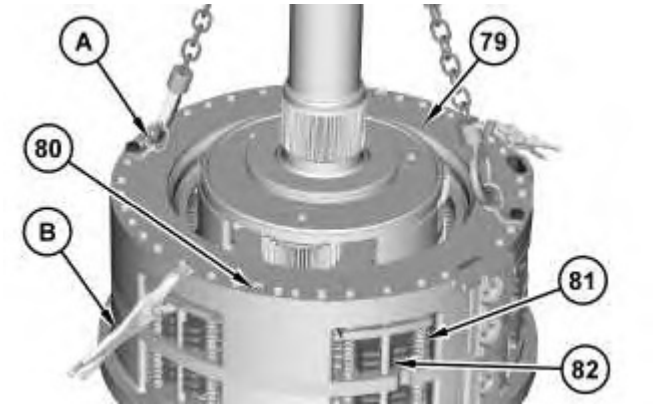

Illustration 32 g03655056

WARNING

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Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

53. Attach Tooling (A) and a suitable lifting device to clutch housing (79). The weight of clutch housing (79) is approximately 44 kg (97 lb). Attach Tooling (B) to clutch housing (79) in order to secure the clutch piston to clutch housing (79).
54. Remove bolts (80).
55. Use Tooling (A) and the suitable lifting device in order to remove clutch housing (79).
56. Remove springs (81) and dowels (82).

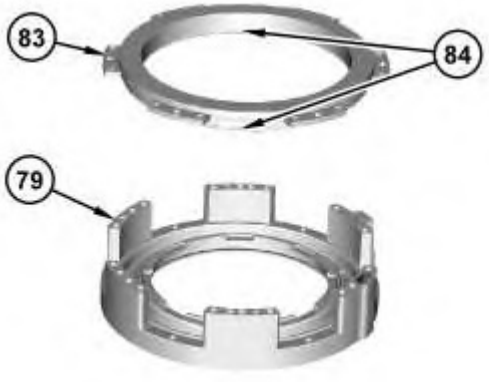

Illustration 33 g03655220

57. Remove clutch piston (83) from clutch housing (79). Remove ring seals (84) from clutch piston (83).

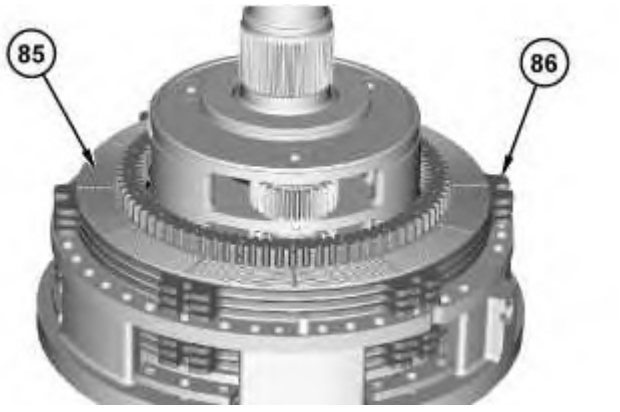

Illustration 34 g03655226

58. Remove friction discs (85) and clutch plates (86).

Illustration 35 g03655302

59. Remove ring gear (87) and plate (88).

Illustration 36 g03655357

60. Remove friction discs (89) and clutch plates (90).

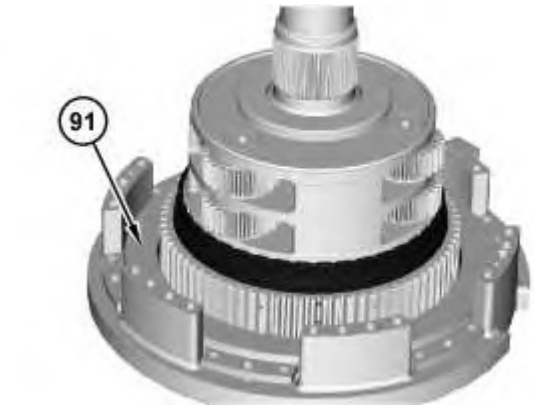

Illustration 37 g03655369

61. Remove clutch piston (91).

Illustration 38 g03655381

62. Remove ring seals (92) from clutch piston (91).

Illustration 39 g03655389

63. Remove retaining ring (93).

Illustration 40 g03655396

64. Remove speed adapter (94).

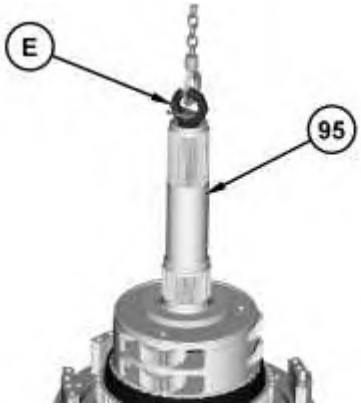

Illustration 41 g03655405

65. Attach Tooling (E) and a suitable lifting device to shaft assembly (95). Use a suitable soft hammer on the bottom of shaft assembly (95) in order to break shaft assembly (95) away from the bearing, if necessary. Use Tooling (E) and the suitable lifting device in order to remove shaft assembly (95).

Illustration 42 g03655450

66. Remove retaining ring (96).

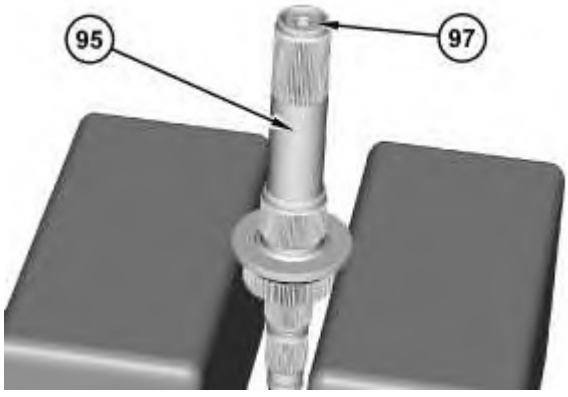

Illustration 43 g03655476

67. Position shaft assembly (95) onto suitable cribbing. Use a suitable soft hammer in order to strike input shaft (97) until input shaft (97) can be removed from shaft assembly (95).

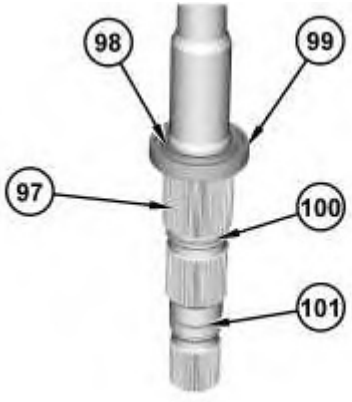

Illustration 44 g03655483

68. Remove retaining ring (98) and remove bearing (99) from input shaft (97).

69. Remove O-ring seals (100) and (101).

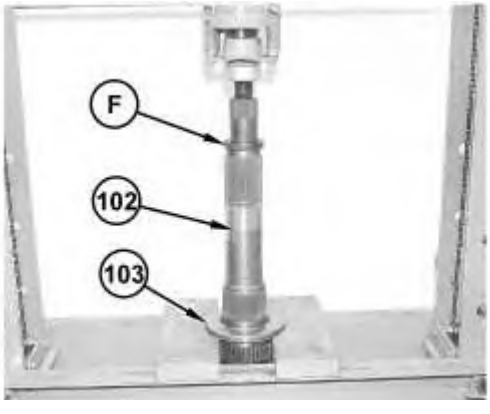

Illustration 45 g03655496

70. Use Tooling (F) and a suitable press in order to remove seal carrier (103) from output shaft (102).

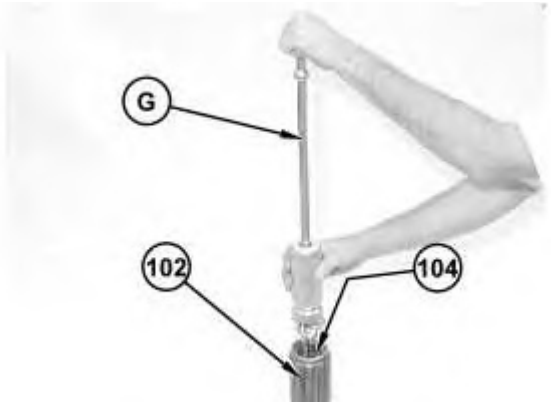

Illustration 46 g03655594

71. Use Tooling (G) in order to remove bearing (104) (not shown) from output shaft (102).

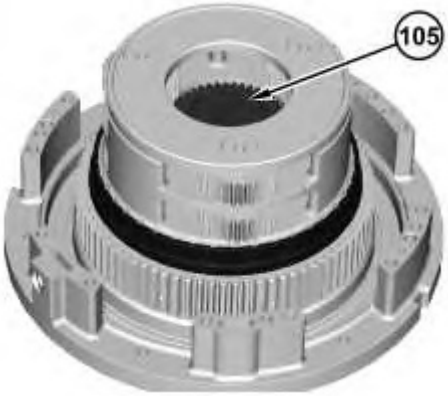

Illustration 47 g03655616

72. Remove gear (105).

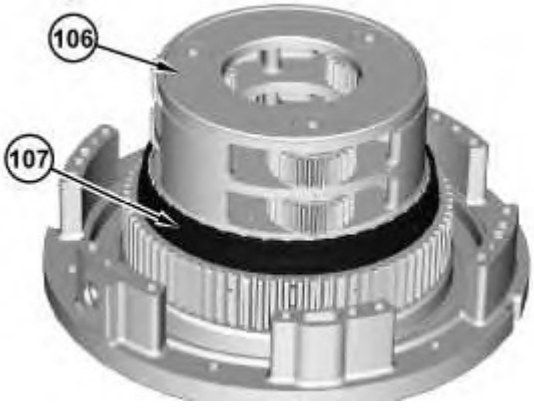

Illustration 48 g03655683

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