

Product: WHEEL DOZER

Model: 834G WHEEL DOZER 6GZ

Configuration: 834G Wheel Tractor 6GZ00001-UP (MACHINE) POWERED BY 3456 Engine

Disassembly and Assembly

836G Landfill Compactor and 834G Wheel Dozer Power Train

Media Number -REN2183-09

Publication Date -01/05/2011

Date Updated -25/05/2011

i04372350

Transmission Planetary - Assemble

SMCS - 3160-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	FT-0947	Compressor	2
B	7M-7238	Sleeve	1
C	FT-0833	Clamp	2
D	FT-0834	Nozzle	1

1. Perform the following steps in order to assemble the carrier assembly for the No. 1 clutch.

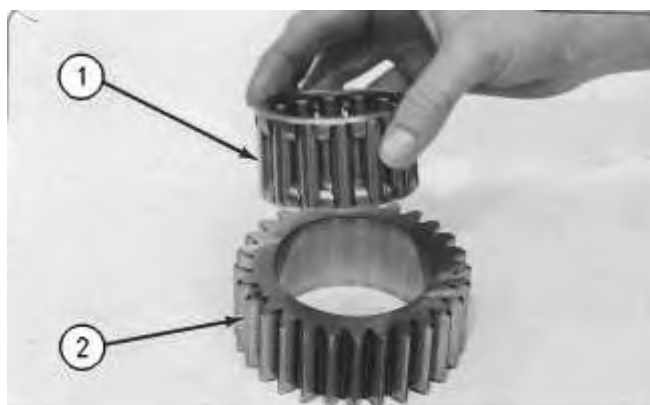


Illustration 1

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- a. Put clean oil on bearing (1) . Install bearing (1) in planetary gear (2) .
- b. Repeat Step 1.a for the remaining two planetary gears.

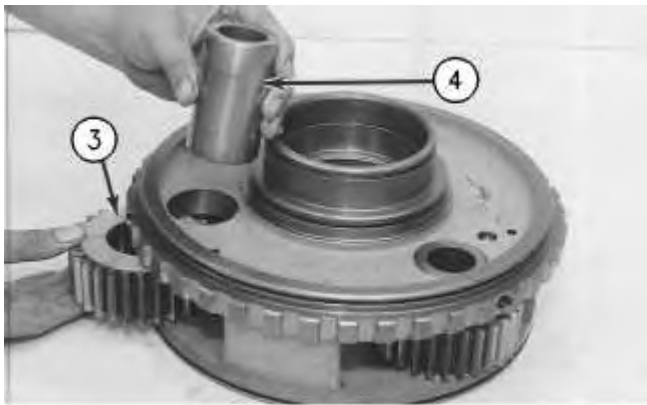


Illustration 2

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- c. Place a thrust disc (3) on each side of the planetary gear. Install the thrust discs and the planetary gear in the carrier. Install planetary shaft (4) . The spring pin hole in the planetary shaft must be in alignment with the hole in the carrier.
- d. Repeat Step 1.c for the remaining two planetary gears.

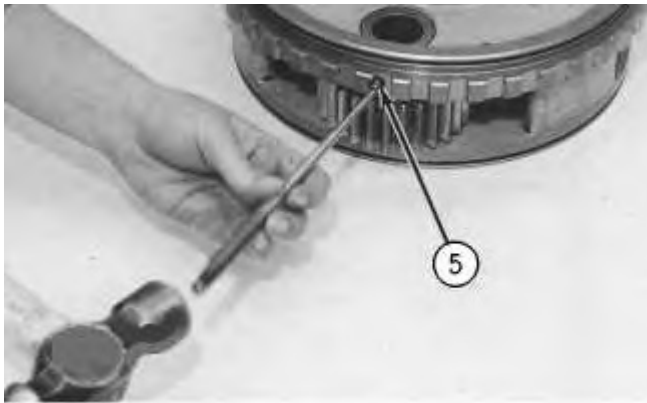


Illustration 3

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- e. Install spring pin (5) that holds planetary shaft (4) in position. Spring pin (5) should be even with the outer surface of the carrier. Repeat for the remaining two shafts.
-

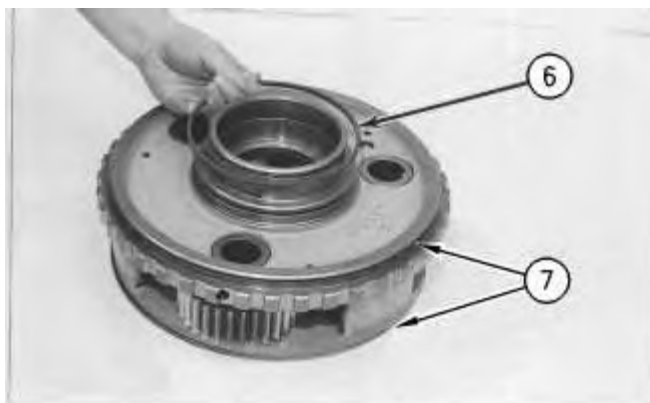


Illustration 4

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- f. Install ring seal (6) and two ring seals (7) on the carrier.



Illustration 5

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- g. Install ring gear (8) on the carrier.

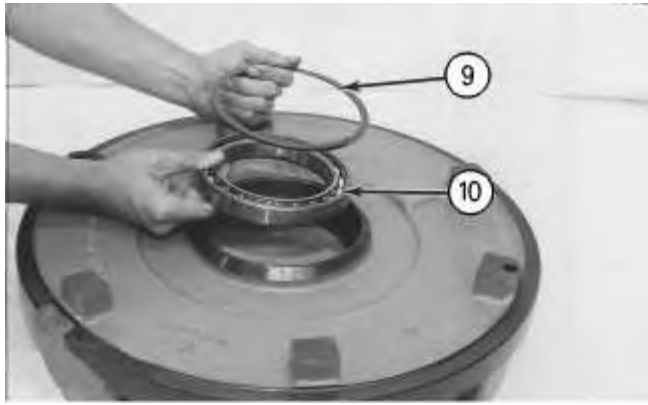


Illustration 6

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2. Install bearing (10) in the No. 1 clutch housing.

Note: The bearing must be in contact with the counterbore in the clutch housing.

3. Install retaining ring (9) .

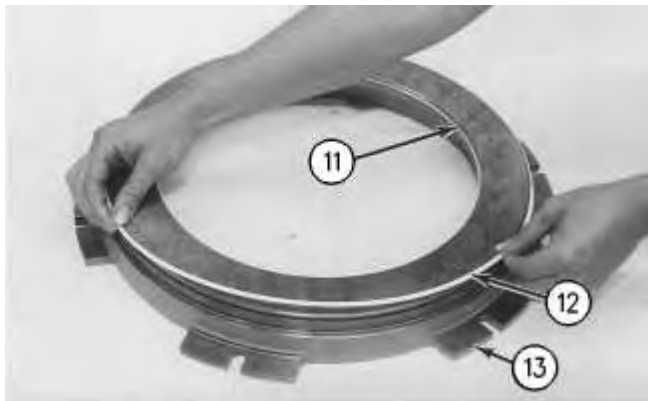


Illustration 7

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4. Install ring seal (11) and ring seal (12) on clutch piston (13) .

Note: Install the ring seals so that the oil groove and the sealing edge will be toward the inside of the No. 1 clutch housing.

5. Put clean oil on the seals.

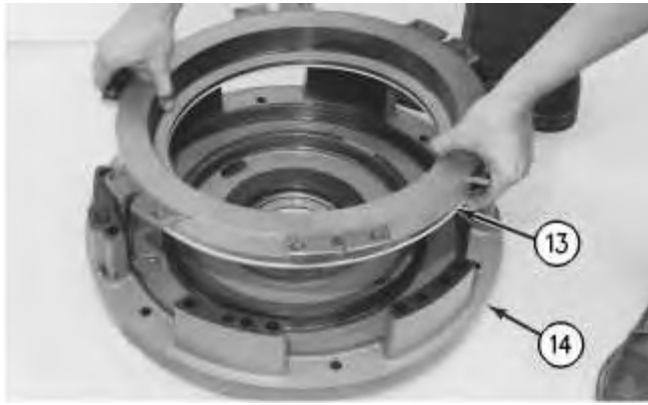


Illustration 8

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6. Install clutch piston (13) in No. 1 clutch housing (14) .



Illustration 9

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7. Use Tooling (A) in order to hold the clutch piston in the No. 1 clutch housing. Invert the No. 1 clutch housing. The groove in the bearing in the clutch housing must be in alignment with the dowel in the carrier. Install the retaining ring that holds the clutch housing to the carrier.



Illustration 10

g00517722

Typical Example

8. Install six reaction dowels (15) .
9. Put clean oil on four friction discs (16) and on three clutch plates (17) .
10. Install the friction discs and the clutch plates in alternating order. Start with a friction disc and end with a friction disc.

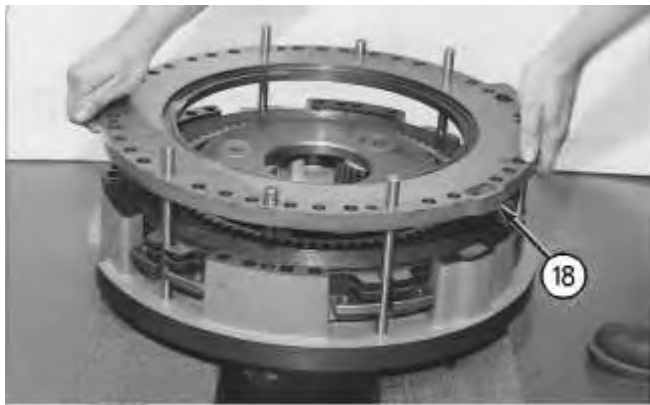


Illustration 11

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Typical Example

11. Install plate assembly (18) . The oil passage in the plate assembly must align with the oil passage in the No. 1 clutch housing.
12. Perform the following steps in order to assemble the No. 2 clutch.

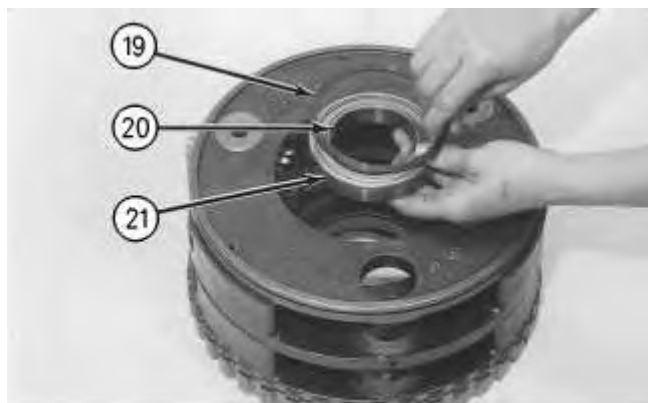


Illustration 12

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- a. Install bearing (21) in the carrier. The groove must be facing upward.

- b. Install retaining ring (19) that holds the bearing in position.

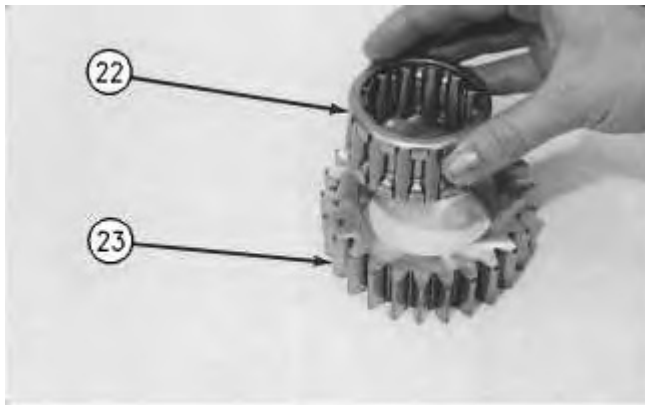


Illustration 13

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- c. Put clean oil on bearing (22) . Install bearing (22) in planetary gear (23) . Repeat this procedure for the remaining two planetary gears.

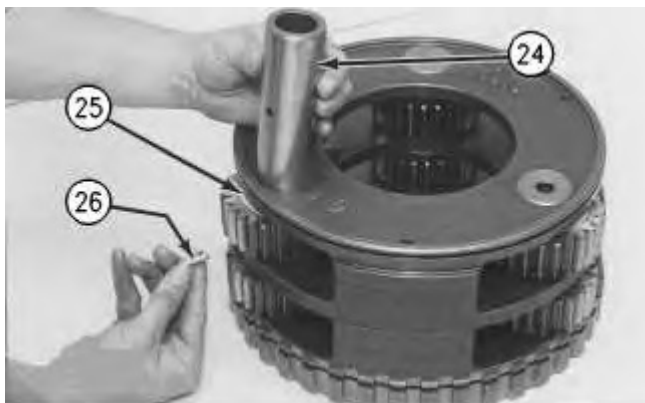


Illustration 14

g00517761

- d. Place a thrust disc (25) on each side of the planetary gear. Install the planetary gears and thrust discs in the carrier.
- e. Install planetary shaft (24) in the carrier. The spring pin hole in the planetary shaft must align with the hole in the carrier.
- f. Install spring pin (26) . The outer edge of the spring pin should be even with the outer edge of the carrier.
- g. Repeat Step 12.d through Step 12.f for the remaining two sets of planetary gears.
-

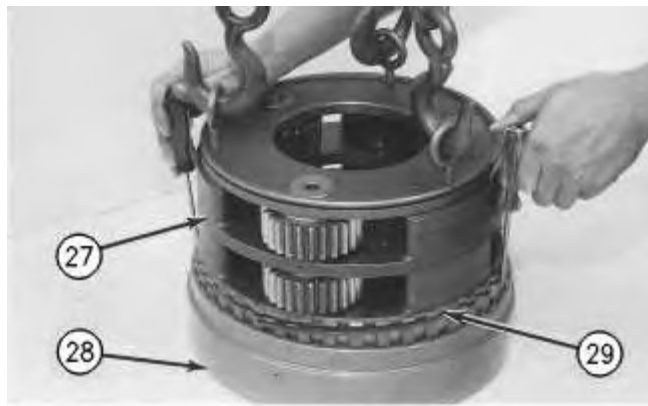


Illustration 15

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- h. Install retaining ring (29) on carrier (27) . Place carrier (27) in position on ring gear (28) . Compress retaining ring (29) with screwdrivers. Slide the carrier into the ring gear. Remove the screwdrivers. Retaining ring (29) must be engaged in the groove in the ring gear.

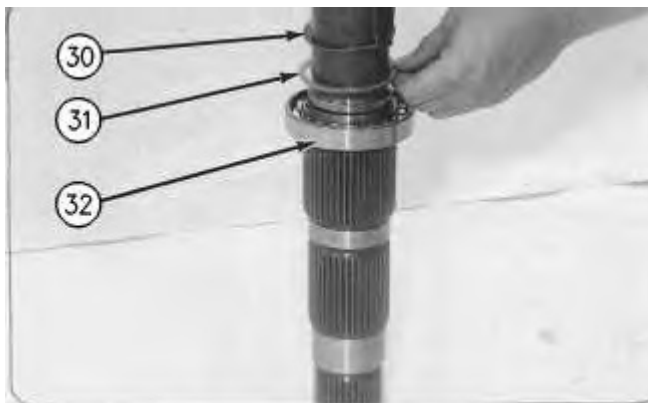


Illustration 16

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13. Install bearing (32) on the input shaft.

Note: The notch in the bearing must be aligned with the dowel in the input shaft.

14. Install spacer (31) .

15. Install retaining ring (30) that holds the spacer and the bearing in position.



Illustration 17

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16. Heat carrier (33) to a temperature of 149 °C (300 °F).
17. Install the carrier on the output shaft.



Illustration 18

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18. Install bearing (34) in the output shaft.

Note: The bearing must make contact with the counterbore in the shaft.

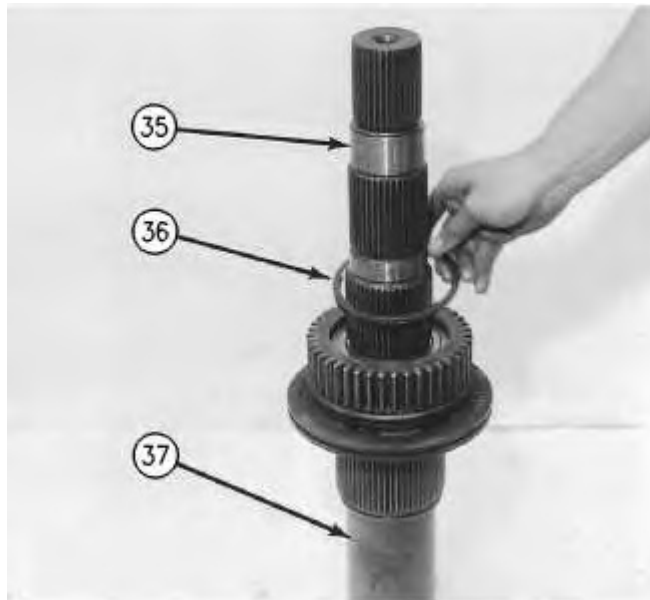


Illustration 19

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19. Slide input shaft (35) in output shaft (37) .

20. Install retaining ring (36) .

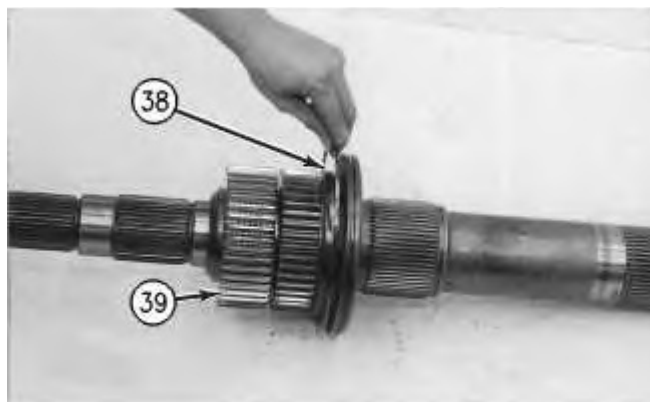


Illustration 20

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21. Install sun gear (39) in the input shaft.

22. Install two ring seals (38) on the carrier. Put clean oil on the ring seals.

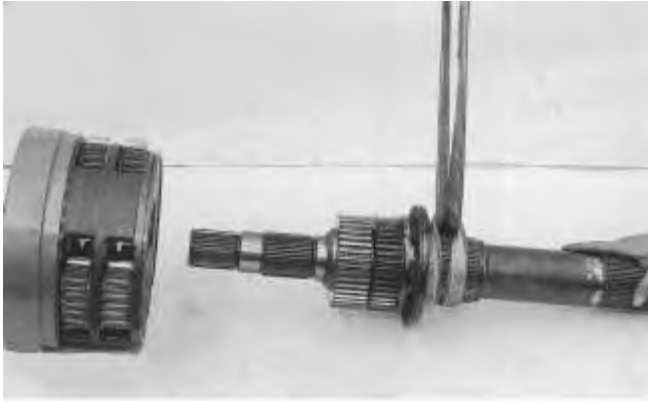


Illustration 21

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23. Attach a suitable hoist and suitable lifting chains.
24. Use the hoist in order to install the shaft assembly in the carrier assembly for the No. 2 clutch assembly.

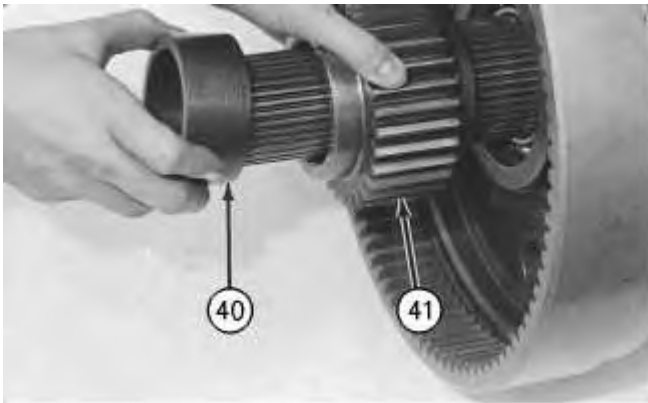


Illustration 22

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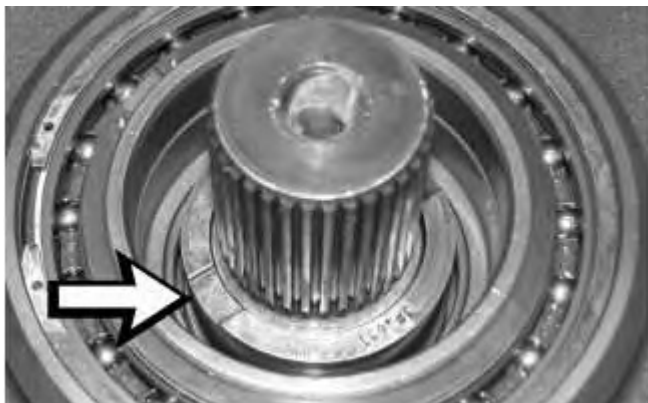


Illustration 23

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25. Install sun gear (41) on the input shaft.

Note: Install sun gear (41) with the longer end of the flange toward the bearing on the shaft.

Note: The slots of the spacer should face away from the sun gear. Refer to illustration 23.

26. Install spacer (40) .

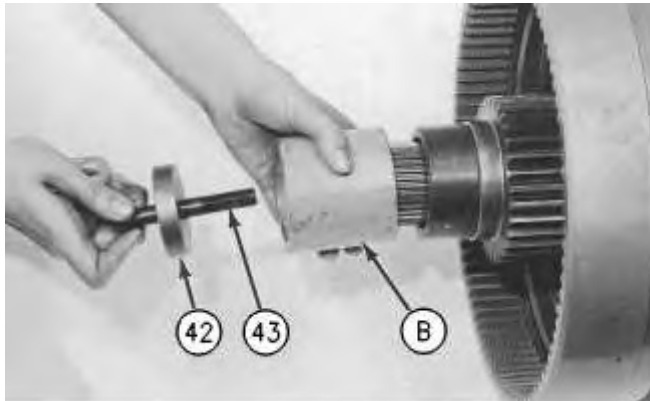


Illustration 24

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27. Use Tooling (B) , bolt (43) , and retainer plate (42) in order to hold the carrier assembly on the shaft assembly.

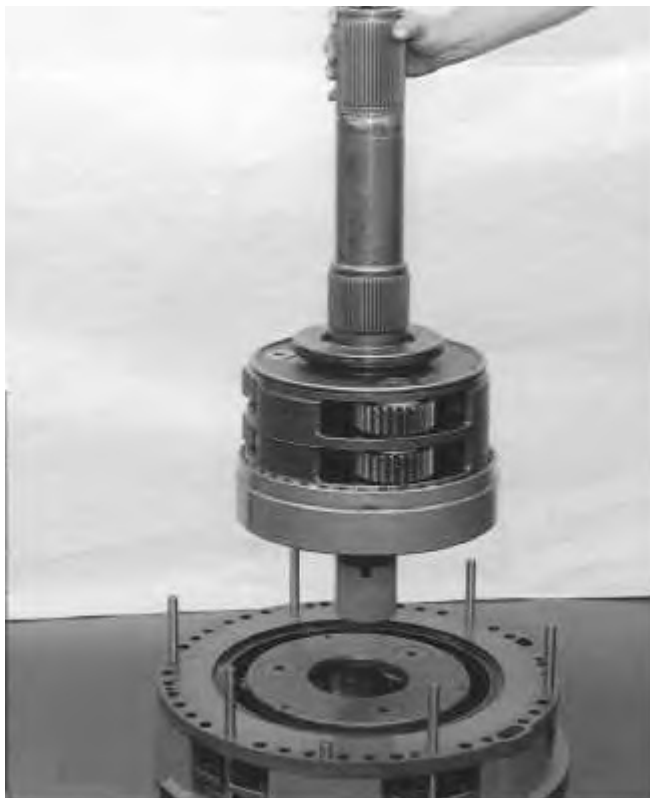


Illustration 25

g00517972

28. Attach a suitable hoist and lifting chains.
29. Use the hoist in order to install the carrier assembly and the shaft assembly in the No. 1 clutch housing.

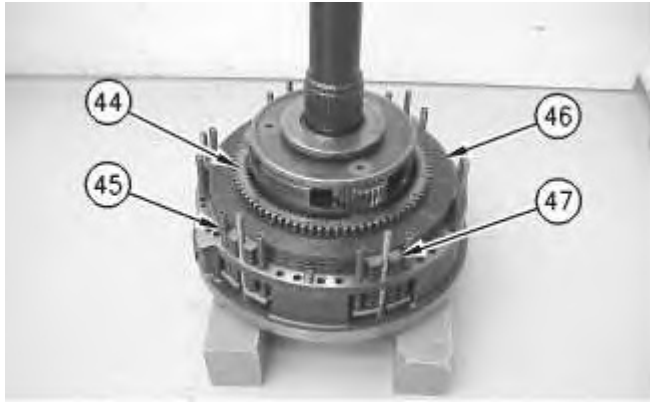


Illustration 26

g00680979

30. Install ring gear (44) on the carrier assembly for the No. 2 clutch housing.
31. Put clean oil on friction discs (46) and clutch plates (47) .
32. Install the four friction discs and the three clutch plates in alternating order. Start with a friction disc and end with a friction disc.
33. Install 12 springs (45) .

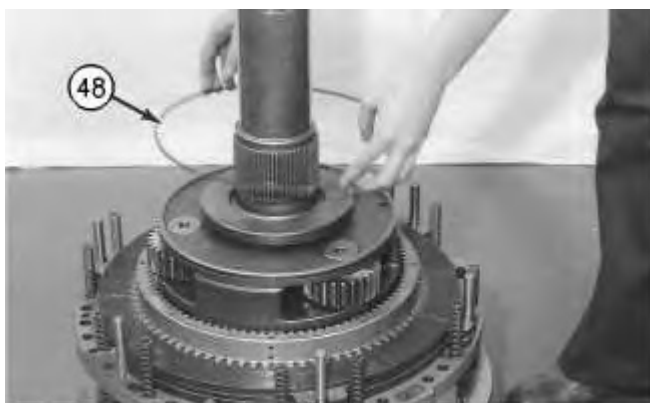


Illustration 27

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34. Install ring seal (48) on the carrier assembly for the No. 2 clutch housing. Put clean oil on the ring seal.

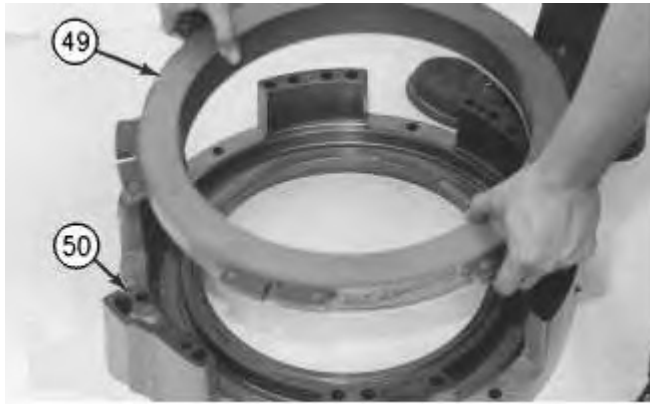


Illustration 28

g00517975

35. Install the two ring seals on clutch piston (49) . Install the ring seals so that the oil groove and the sealing edge will be facing toward the inside of the No. 2 clutch housing.
36. Put clean oil on the ring seals.
37. Install clutch piston (49) in No. 2 clutch housing (50) .



Illustration 29

g00517997

38. Use Tooling (A) in order to hold the clutch piston in the No. 2 clutch housing.
 39. Attach a suitable hoist and lifting chains.
 40. Use the hoist in order to install the clutch housing in position on the dowels, the springs, and the plate assembly.
 41. The alignment mark on the No. 1 clutch housing must be in alignment with the mark on the No. 2 clutch housing. The 12 springs must be in the bores of the clutch piston for the No. 2 clutch housing.
 42. Remove Tooling (A) .
-



Illustration 30

g00518000

43. Install sun gear (51) .

44. Perform the following steps in order to assemble the carrier for the No. 2 clutch gear.



Illustration 31

g00518132

a. Install bearing (53) in the carrier. Install retaining ring (52) that holds the bearing.

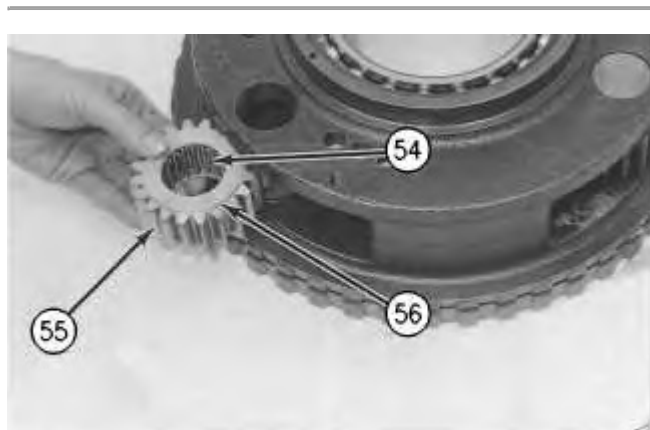


Illustration 32

g00518133

- b. Put clean oil on bearing (54) . Install bearing (54) in planetary gear (55) .
- c. Place a thrust disc (56) on each side of the planetary gear. Place the thrust discs and the planetary gear in position in the carrier.

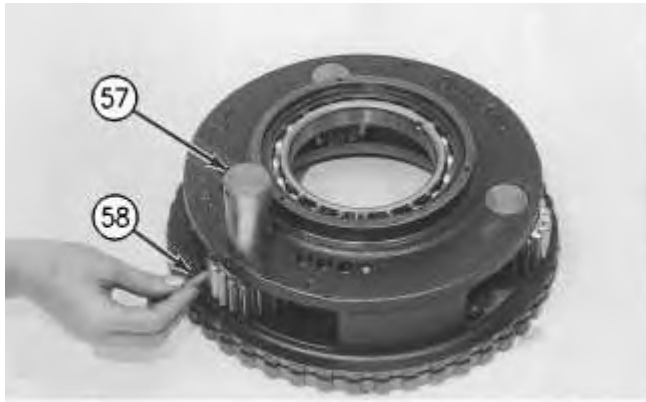


Illustration 33

g00518134

- d. Install planetary shaft (57) that holds the planetary gear in position. The hole in the planetary shaft for the spring pin must align with the hole in the carrier.
- e. Use a hammer and a punch in order to install spring pin (58) . The end of the spring pin must be flush with the outer surface of the carrier.
- f. Repeat Step 44.b through Step 44.e for the remaining two planetary gears.

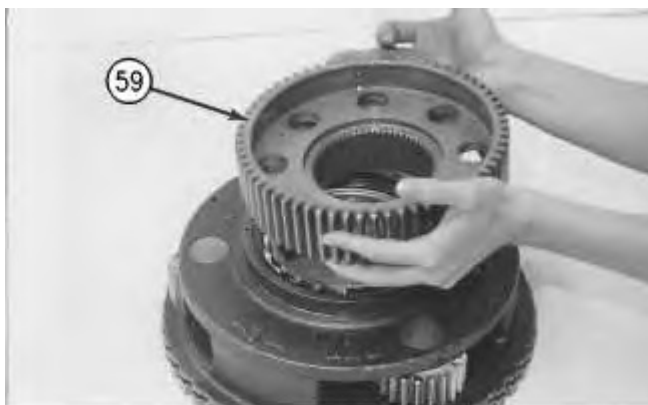


Illustration 34

g00518135

- 45. Place hub assembly (59) in position on the carrier. The dowel in the hub assembly must engage the notch in the bearing.
 - 46. Install the retaining ring that holds the hub assembly in position.
-

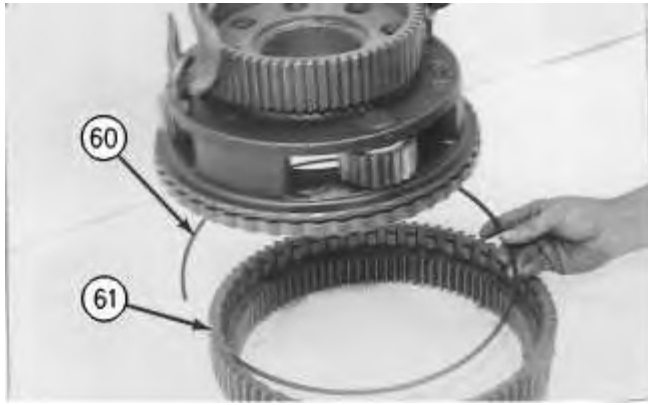


Illustration 35

g00518136

47. Install ring (60) on the carrier.
48. Attach a suitable hoist and lifting chains.
49. Use the hoist in order to lower the carrier into ring gear (61) .
50. Use screwdrivers in order to compress ring (60) .
51. Lower the carrier into the ring gear. Verify that ring (60) is engaged in the groove in the ring gear.



Illustration 36

g00518137

52. Attach a suitable hoist and lifting chains.
53. Use the hoist in order to install the carrier assembly onto the No. 2 clutch housing.
54. Install the retaining ring that holds the carrier assembly in position.

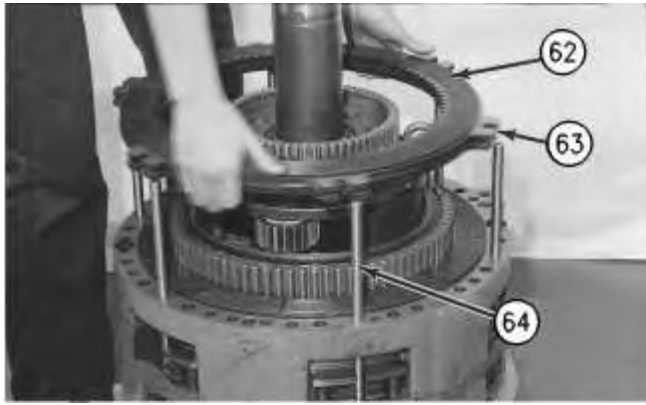


Illustration 37

g00518138

55. Install reaction dowels (64) .
56. Put clean oil on three friction discs (62) and two clutch plates (63) .
57. Install the three friction discs and the two clutch plates in alternating order. Start with a friction disc and end with a friction disc.

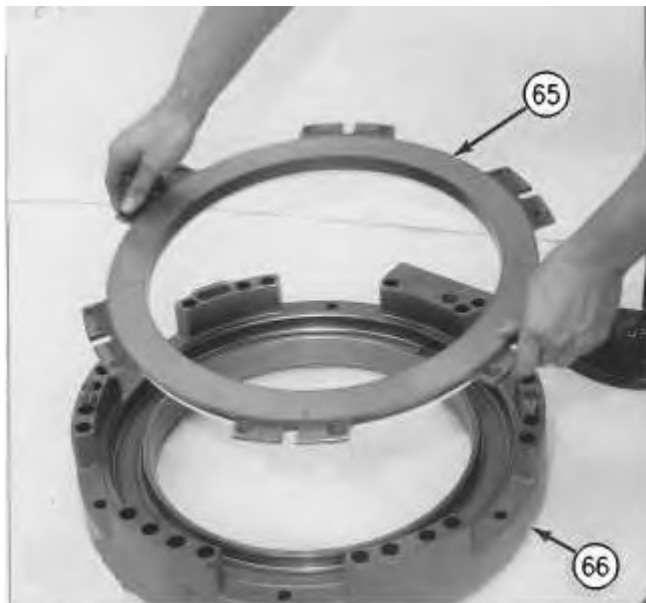


Illustration 38

g00518140

58. Install the two ring seals on clutch piston (65) . Install the ring seals so that the oil groove and the sealing edge will be facing toward the inside of the No. 3 clutch housing.
59. Put clean oil on the ring seals.
60. Install clutch piston (65) in No. 3 clutch housing (66) .

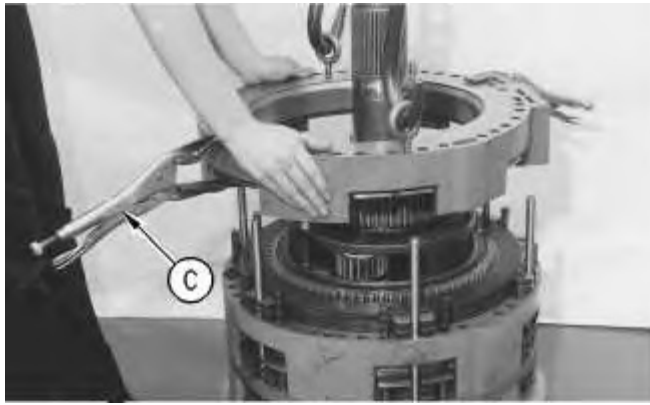


Illustration 39

g00518238

61. Use Tooling (C) in order to hold the clutch piston in the No. 3 clutch housing.
62. Install 12 springs (67) in the No. 3 clutch housing.
63. Attach a suitable hoist and lifting chains.
64. Use the hoist in order to install the No. 3 clutch housing on the No. 2 clutch housing.
65. Align the mark on the No. 3 clutch housing with the mark on the No. 2 clutch housing. The 12 springs must be in the bores of the clutch piston on the No. 3 clutch housing.



Illustration 40

g00518239

66. Install ring gear (68) .



Illustration 41

g00518240

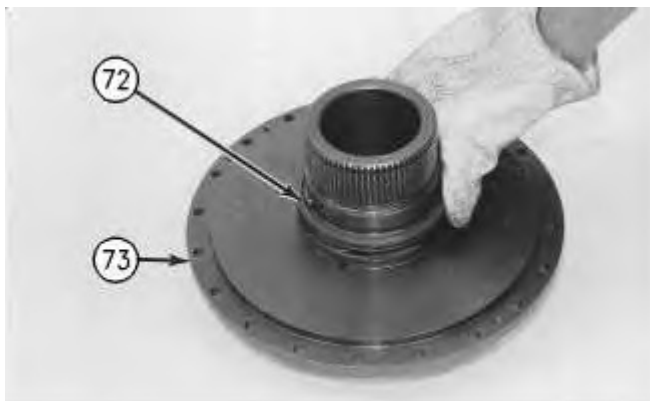
67. Put clean oil on five friction discs (69) and four clutch plates (70) .
68. Install the five friction discs and four clutch plates over the hub in an alternating order. Start with a friction disc and end with a friction disc.



Illustration 42

g00518242

69. Install housing assembly (71) over the friction discs and the clutch plates.



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