Product: WHEEL DOZER
Model: 834K WHEEL DOZER L4Y
Configuration: 834K Wheel Dozer L4Y00001-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**

i05842493

Input Transfer Gears - Assemble

SMCS - 3159-016-IV

Assembly Procedure

Table 1

Required Tools			
Tooling	**Part Number**	**Part Description**	**Qty**
C	1P-0520	Driver Gp	1
D	8T-5096	Dial Indicator Gp	1
E	1P-7405	Eyebolt	1
F	5P-3413	Pipe Sealant	1

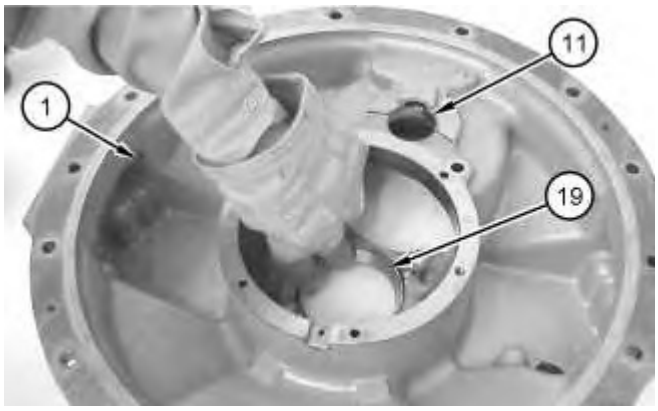

Illustration 1 g01144131

1. Lower the temperature of bearing cups (19) and (11) . Install bearing cups (19) and (11) into transfer case (1) .

Illustration 2 g01144139

2. Raise the temperature of bearing cones (16) and (17) . Install bearing cones (16) and (17) onto lower transfer gear (15) . Seat the bearing cones onto lower transfer gear (15) .

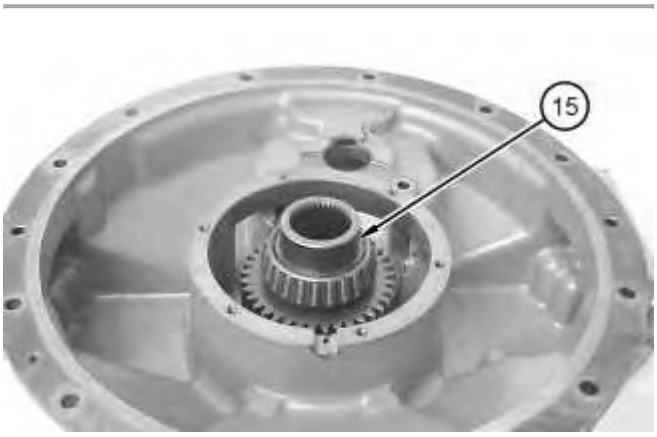

Illustration 3 g01144148

3. Install lower transfer gear (15) into transfer case (1) .

Illustration 4 g01144164

4. Lower the temperature of bearing cup (18) and install bearing cup (18) into bearing cage (13) .

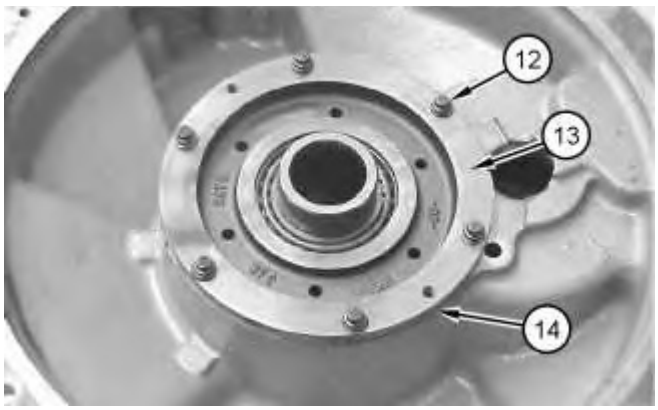

Illustration 5 g01144172

5. Install shims (14) and bearing cage (13) . Install bolts (12) and tighten bolts to a torque of 55 ± 10 N·m (41 ± 7 lb ft).

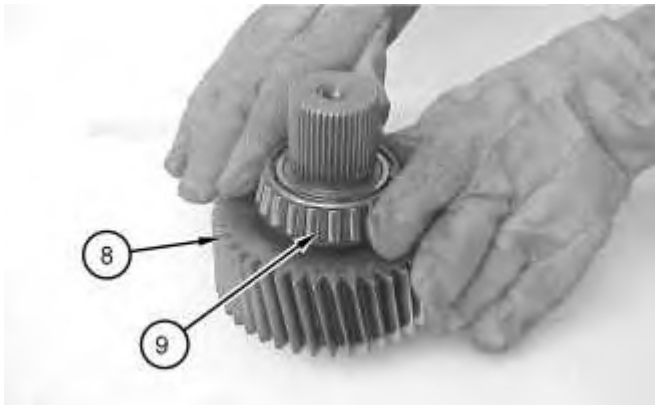

Illustration 6 g01144177

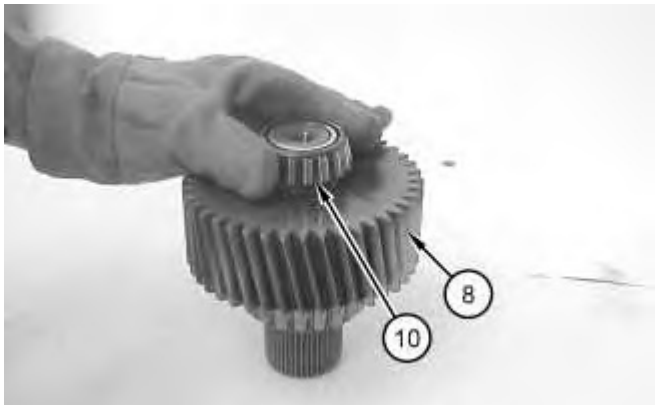

Illustration 7 g01144178

6. Raise the temperature of bearing cones (9) and (10) . Install bearing cones (9) and (10) onto upper transfer gear (8) . Seat the bearing cones onto upper transfer gear (8) .

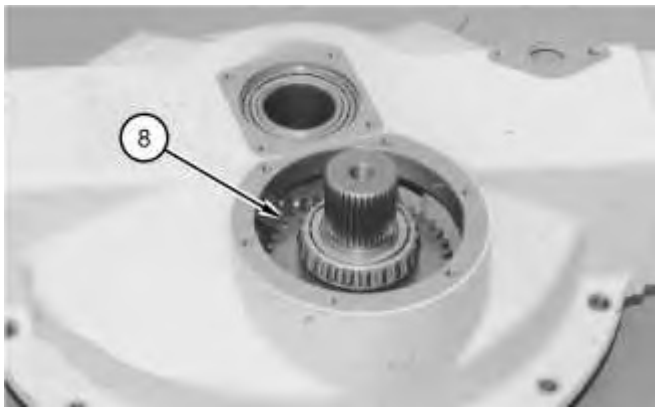

Illustration 8 g01143862

7. Install upper transfer gear (8) .

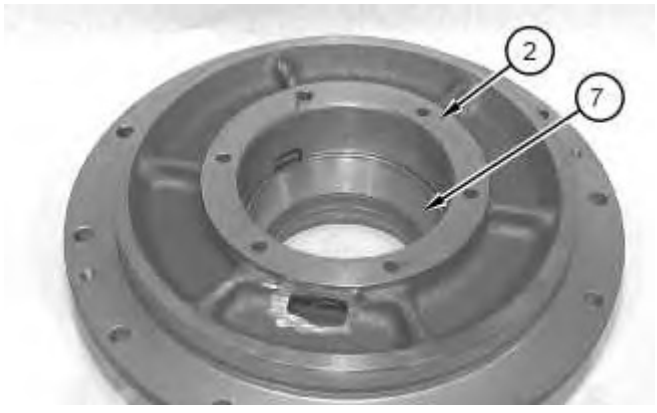

Illustration 9 g01144182

8. Lower the temperature of bearing cup (7) and install bearing cup (7) into bearing cage (2) .

Illustration 10 g01143819

9. Install new O-ring seal (5) onto bearing cage (2) .

Illustration 11 g01143814

10. Install shims (4) .

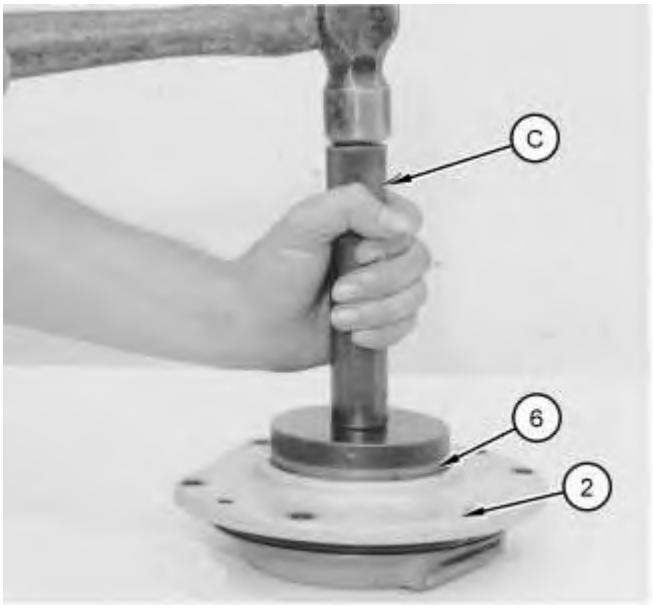

Illustration 12 g03694108

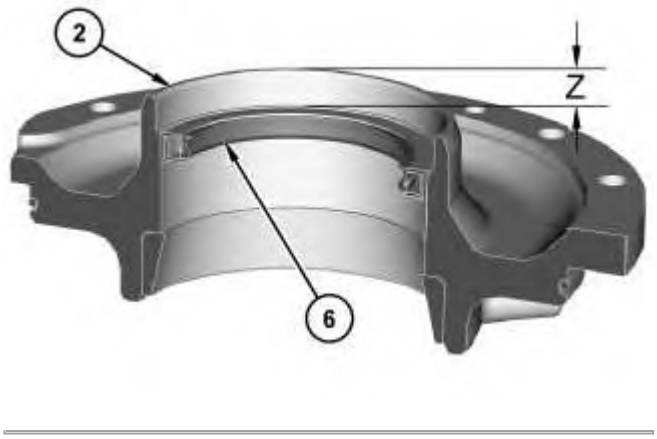

Illustration 13 g03694132

11. Apply Tooling (F) to outer diameter of lip seal (6) . Use Tooling (C) in order to install lip seal (6) until Dimension (Z) is achieved. Dimension (Z) is equal to 12.4 mm (0.49 inch).

12. Lubricate the sealing lip of lip seal (6) with the lubricant that is being sealed.

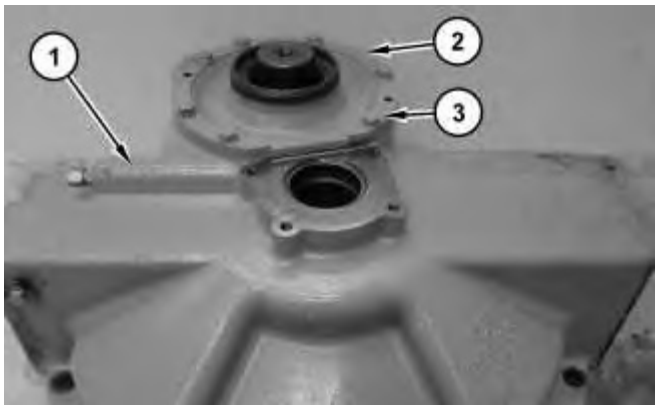

Illustration 14 g03319396

13. Install bearing cage (2) onto transfer case (1) . Install bolts (3) . Tighten bolts (3) to a torque of 54 ± 9 N·m (40 ± 7 lb ft).

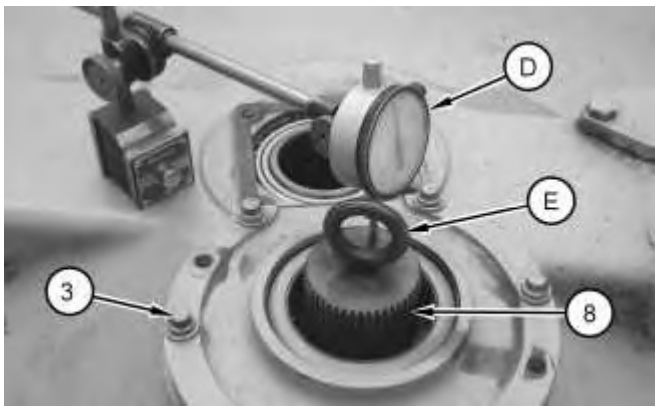

Illustration 15 g01144225

14. Install Tooling (E) into upper transfer gear (8) . Use Tooling (E) and Tooling (D) in order to check the end play of upper transfer gear (8) . The correct end play is 0.110 ± 0.040 mm (0.0043 ± 0.0016 inch).

15. Add or remove shims that were installed in Step 10 in order to obtain the correct end play. Tighten bolts (3) to a torque of 54 ± 9 N·m (40 ± 7 lb ft) after the correct end play is achieved.

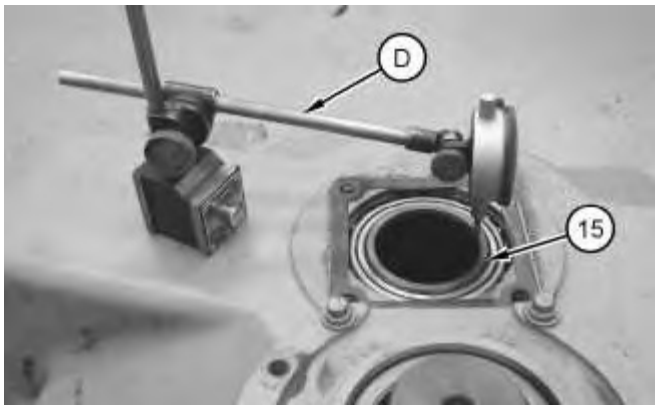

Illustration 16 g01144263

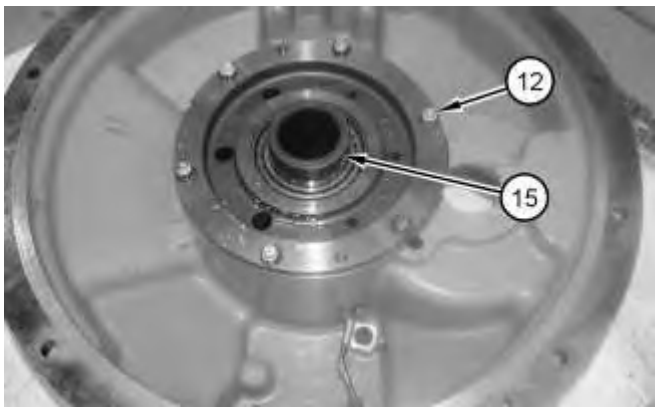

Illustration 17 g01144265

16. Use Tooling (D) in order to check the end play of lower transfer gear (15) . The correct end play is 0.110 ± 0.040 mm (0.0043 ± 0.0016 inch).

    Add or remove shims (14) that were installed in Step 5 in order to obtain the correct end play.

17. Tighten bolts (12) to a torque of 54 ± 9 N·m (40 ± 7 lb ft) after the correct end play is achieved.

End By: Connect the input transfer gears to the transmission.

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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**

i05518092

Transmission Planetary - Disassemble

SMCS - 3160-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	395-1094	Lifting Eye Assembly	4
B	1P-2420	Transmission Repair Stand	1
C		Forcing Bolt 1/2 -13 by 2 in	2
D	5P-5197	Retaining Ring Pliers As	1
E	1P-1863	Retaining Ring Pliers	1
F	5P-4758	Retaining Ring Pliers As	1
G	138-7573	Link Bracket	3
H	9U-5266	Sleeve	1
J	FT-0947	Clamps	2
K	1P-0074	Slide Hammer Puller Gp	1
L	5P-1720	Seal Pick	2

Start By:

a. Separate the transmission from the transfer gears.

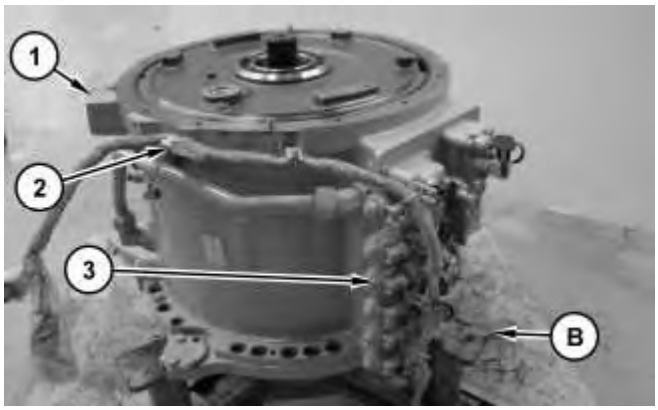

Illustration 1 g03316059

1. Use a suitable lifting device to lift transmission assembly (1). The weight of transmission assembly (1) is approximately 725 kg (1600 lb). Position transmission assembly (1) onto Tooling (B).
2. Remove harness assembly (2) and valves (3).

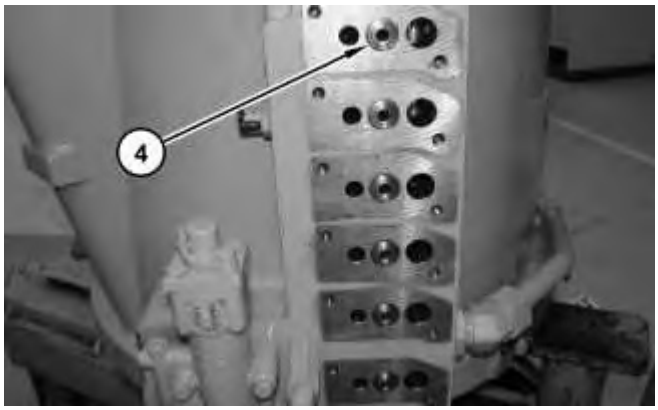

Illustration 2 g03316843

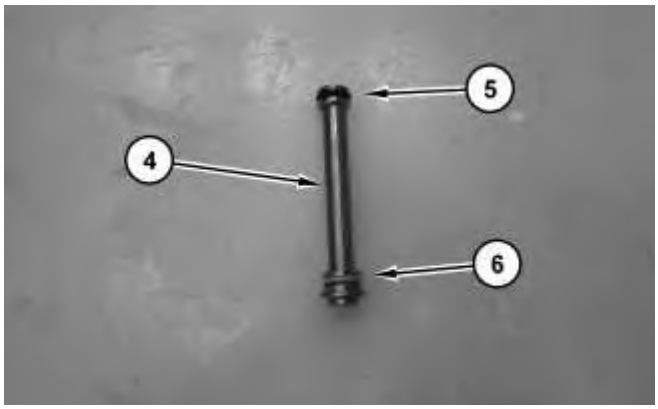

Illustration 3 g03316846

3. Remove sleeves (4). Remove and inspect O-rings (5) and (6).

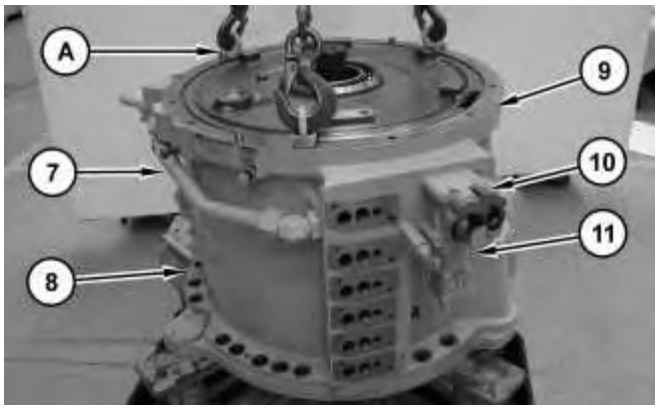

Illustration 4 g03316852

4. Remove tube assembly (7). remove bolts (10) and valve (11). Remove bolts (8). Attach Tooling (A) and a suitable lifting device to housing (9). The weight of housing (9) is approximately 109 kg (240 lb). Remove housing (9) .

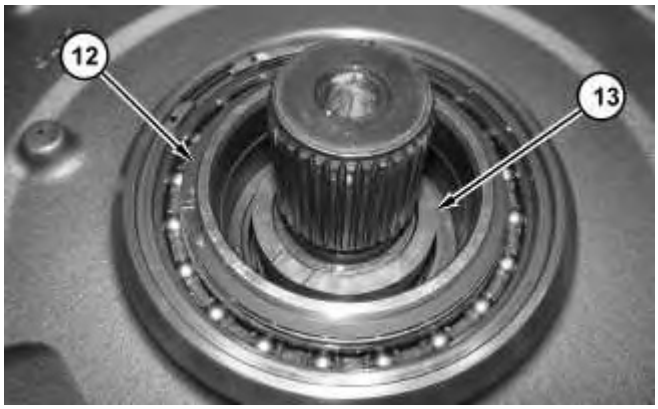

Illustration 5 g03316859

5. Use Tooling (D) in order to remove retaining ring (12). Remove spacer (13).

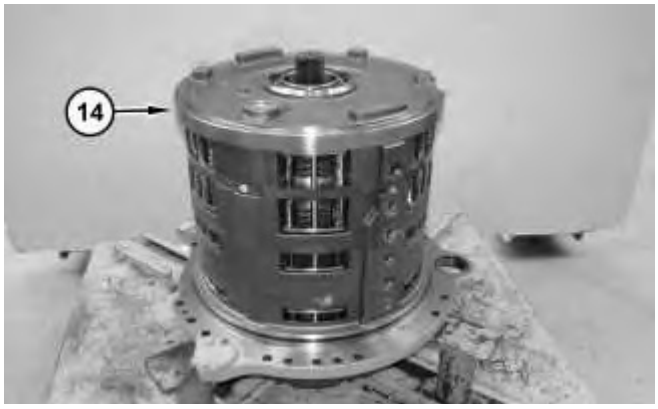

Illustration 6 g03316869

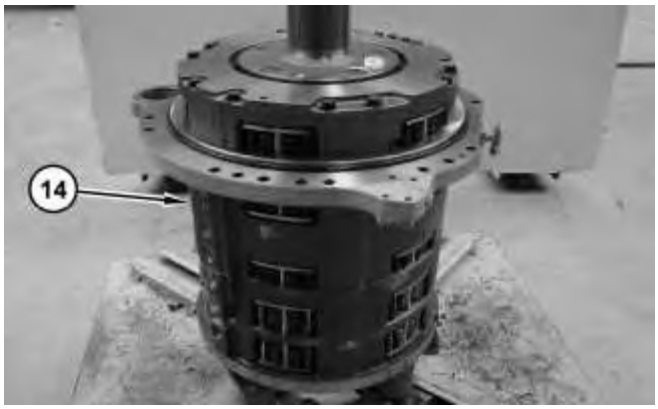

Illustration 7 g03317595

6. Attach suitable lifting device to planetary assembly (14). Invert planetary assembly (14). The weight of planetary assembly (14) is approximately 617 kg (1360 lb).

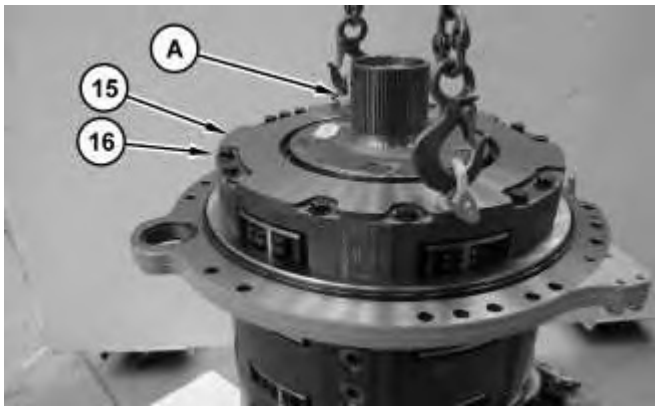

Illustration 8 g03316875

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. Attach Tooling (A) and a suitable lifting device to housing (15). The weight of housing (15) is approximately 27 kg (60 lb). Remove bolts (16) and remove housing (15).

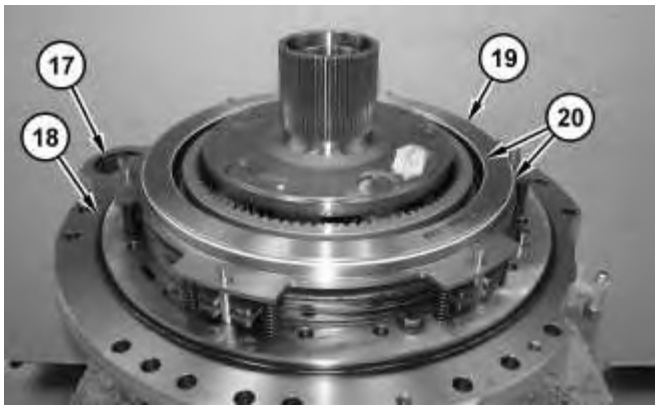

Illustration 9 g03316892

8. Remove O-ring seals (17) and (18). Remove piston (19). Remove seals (20) from piston (19).

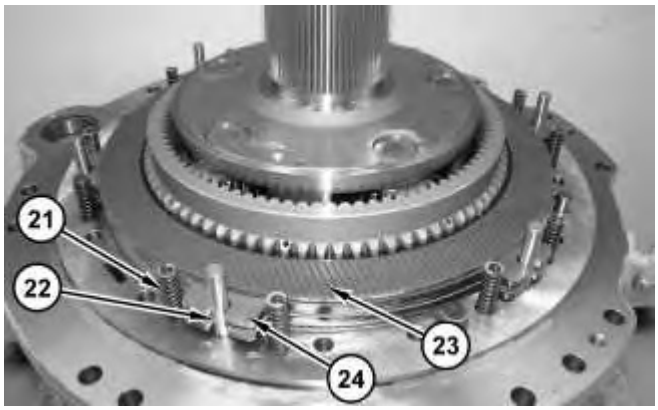

Illustration 10 g03316896

9. Remove springs (21), dowels (22), discs (23), and plates (24).

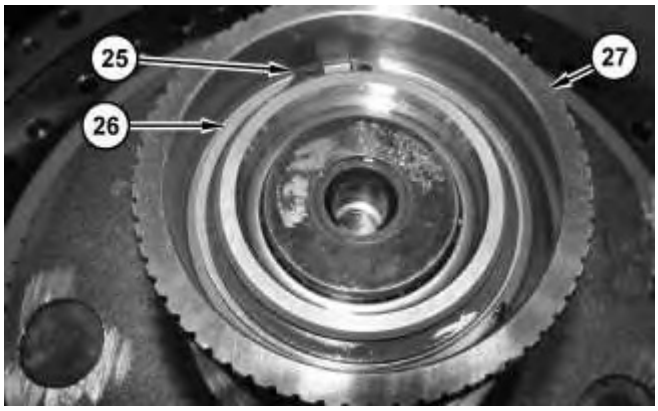

Illustration 11 g03316906

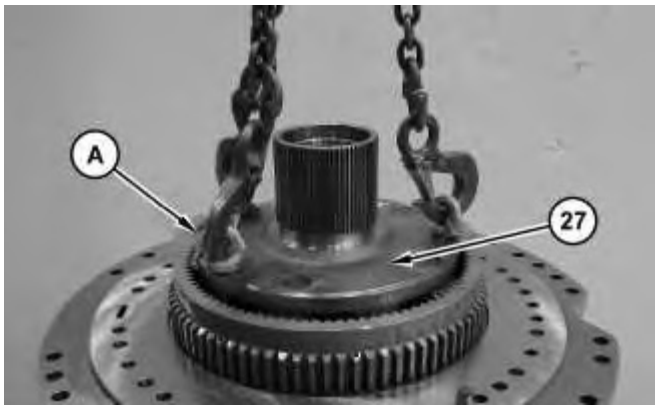

Illustration 12 g03316919

10. Use Tooling (E) in order to remove retaining ring (25) and spacer (26) from the inside of carrier assembly (27).

11. Attach Tooling (A) and a suitable lifting device to carrier assembly (27). The weight of carrier assembly (27) is approximately 30 kg (65 lb). Remove carrier assembly (27).

Illustration 13 g01139613

12. Remove ring gear (28) from carrier assembly (27).

Illustration 14 g01139636

13. Invert carrier assembly (27). Remove bolts (29), locks (30), and slinger (31) from carrier assembly (27).

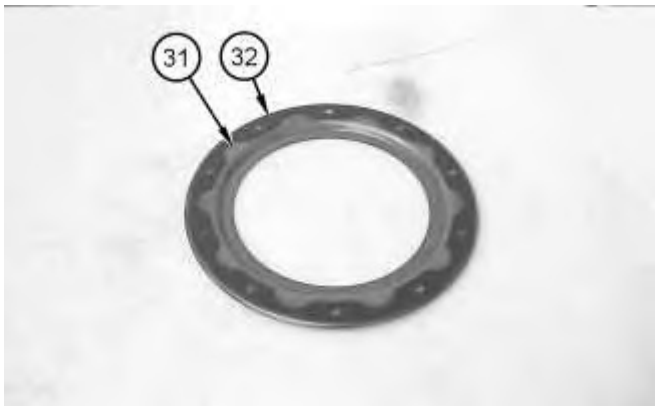

Illustration 15 g01139652

14. Remove gasket (32) from slinger (31).

Illustration 16 g01139673

15. Drive pin (33) into shaft (34).

Note: Do not reuse pin (33).

Illustration 17 g01139675

16. Remove shaft (34), disc (35), planetary gear (36), and disc (38) from carrier assembly (27). Remove bearings (37) from planetary gear (36). Remove pin (33) from shaft (34).

17. Repeat the previous two steps for the remaining planetary gear assemblies.

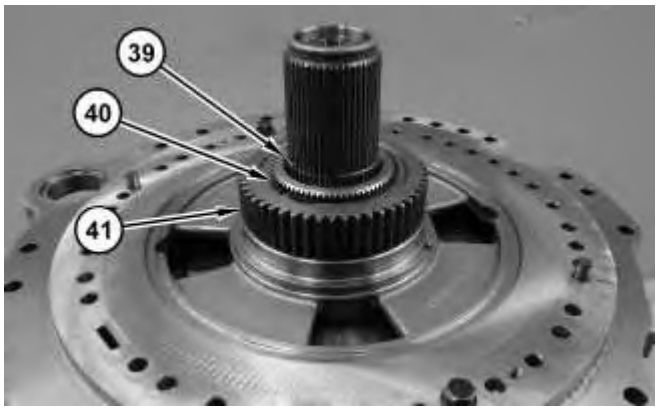

Illustration 18 g03317183

18. Remove ring (39). Use Tooling (D) in order to remove retaining ring (40). Remove sun gear (41).

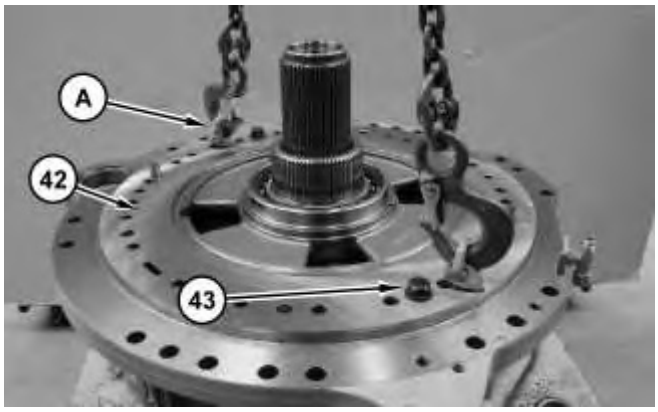

Illustration 19 g03317206

19. Attach Tooling (A) and a suitable lifting device to manifold assembly (42). The weight of manifold assembly (42) is approximately 86 kg (190 lb). Remove bolts (43) and remove manifold assembly (42).

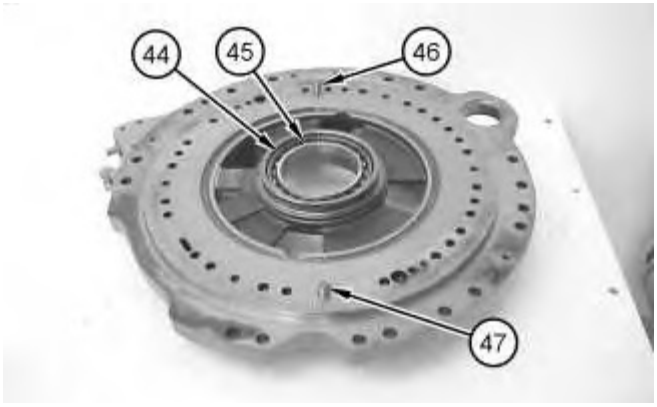

Illustration 20 g01139728

20. Use Tooling (F) in order to remove retaining ring (44). Remove bearing (45). Remove dowels (46) and (47), if necessary.

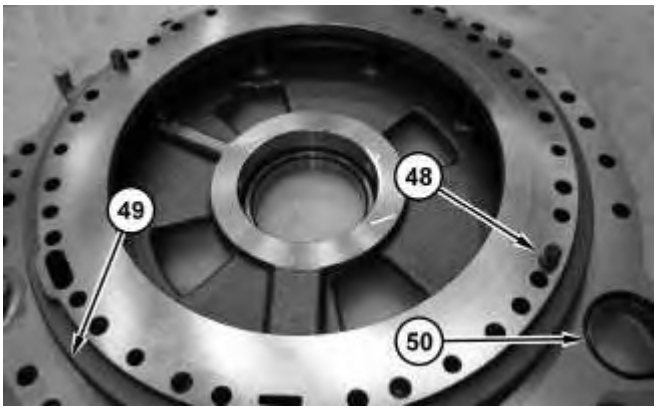

Illustration 21 g03317481

21. Invert the manifold assembly. Remove O-ring seals (49) and (50). Remove dowel pins (48).

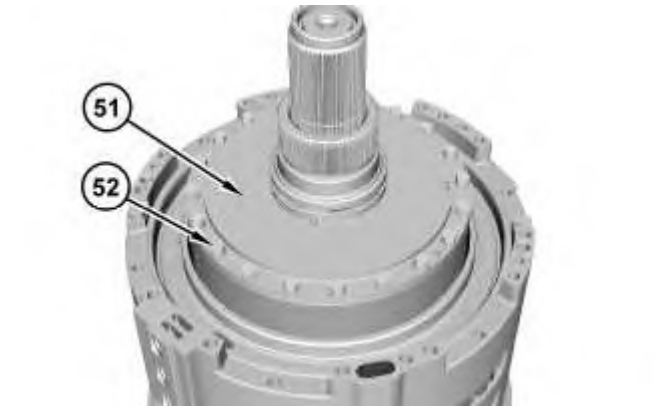

Illustration 22 g03492157

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.

22. Remove bolts (52) and remove housing assembly (51).

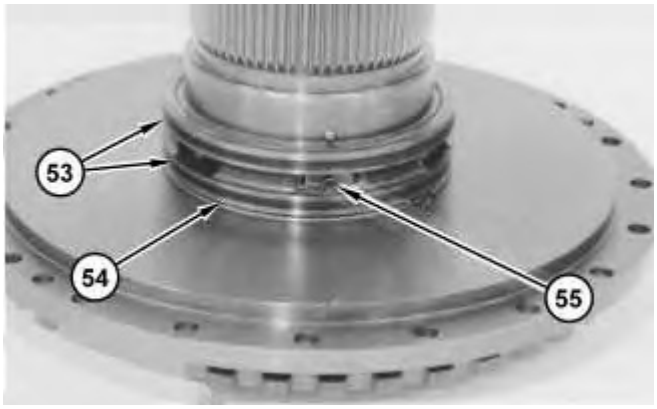

Illustration 23 g03493556

23. Remove ring seals (53). Remove pin (55) and seal carrier (54).

Note: Seal carrier (54) will be damaged during the removal process and will need to be replaced.

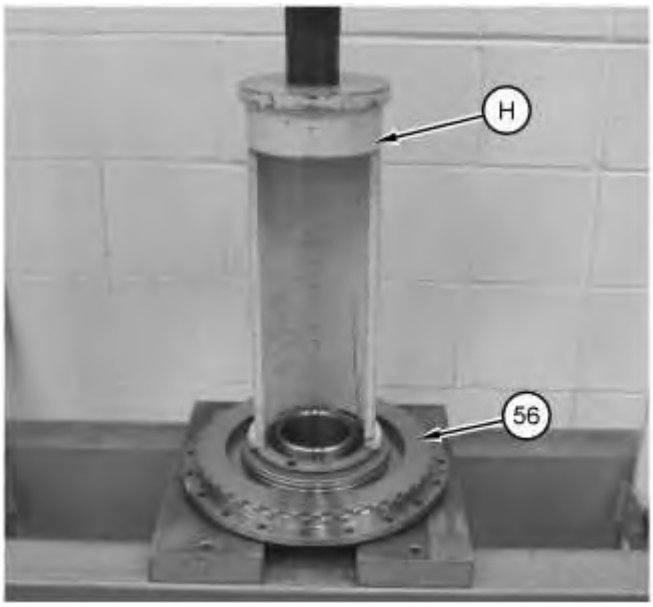

Illustration 24 g03493597

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