

Product: TRACK-TYPE TRACTOR

Model: D5N TRACK-TYPE TRACTOR CKT

Configuration: D5N TRACK-TYPE TRACTOR /XL, LGP, POWER SHIFT/ CKT00001-UP (MACHINE) POWERED BY 3126B ENGINE

## Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01855501

# Transmission and Bevel Gears - Connect

SMCS - 3010-077

## Connection Procedure

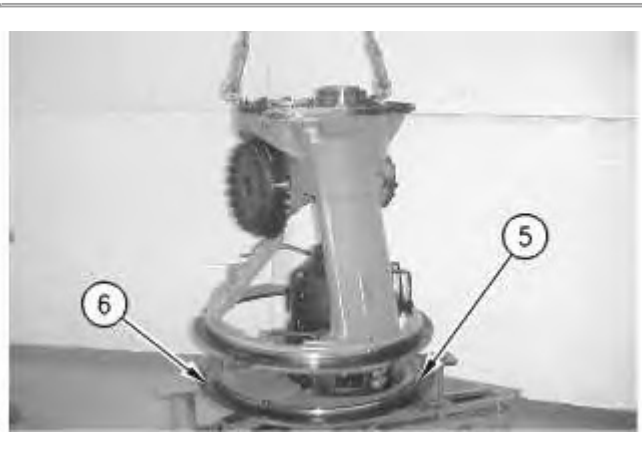


Illustration 1

g00947520

1. Remove bolts (6) that secure the transmission to Tooling (A) .
  2. Install seal (5) to the transmission.
  3. Install the bevel gears to the transmission. The weight of the bevel gears is approximately 245 kg (550 lb).
-

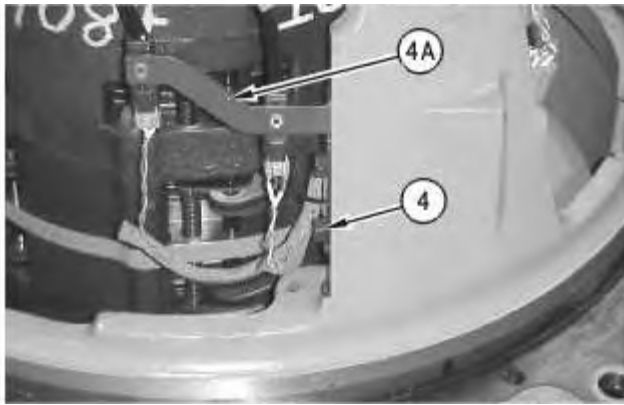


Illustration 2

g00952487

4. Install bracket (4A). Install bolts (4) .

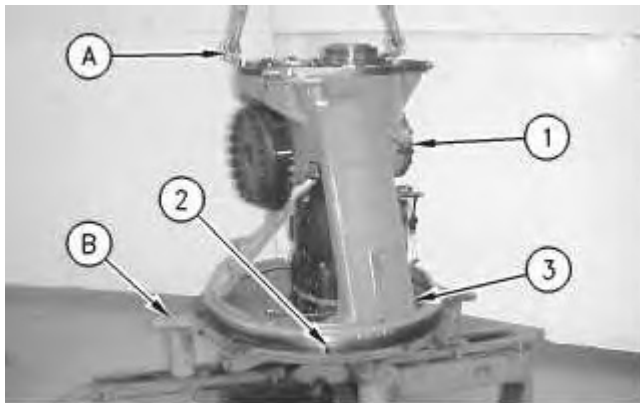


Illustration 3

g00947498

5. Install bolts (2) that connect the transmission to bevel gears (3) .
6. Remove the transmission and bevel gears (1) .

**End By:**

- a. Install the transmission and the bevel gears. Refer to Disassembly and Assembly, "Transmission and Bevel Gears - Install".
  - b. Install the hydraulic control valve. Refer to Disassembly and Assembly, "Hydraulic Control Valve - Install".
-

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## Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01876034

# Bevel and Transfer Gears - Disassemble

SMCS - 3011-015

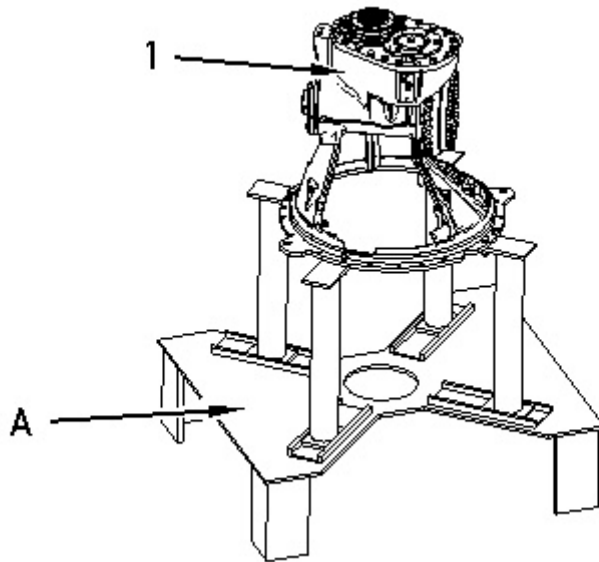
## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	5F-7343	Bearing Puller Gp	1
C	8T-2839	Spanner Wrench	1

### Start By:

- A. Separate the transmission and the bevel gears. Refer to Disassembly and Assembly, "Transmission and Bevel Gears - Separate".
-

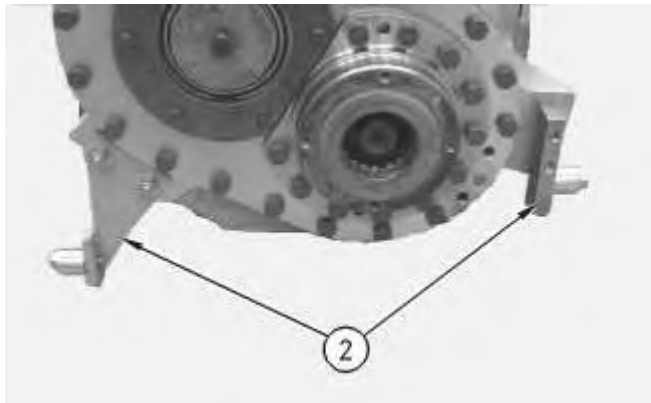


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Illustration 1

g00959670

1. Mount bevel and transfer gears (1) onto Tooling (A) .



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Illustration 2

g00954579

2. Remove bracket assemblies (2) .
-

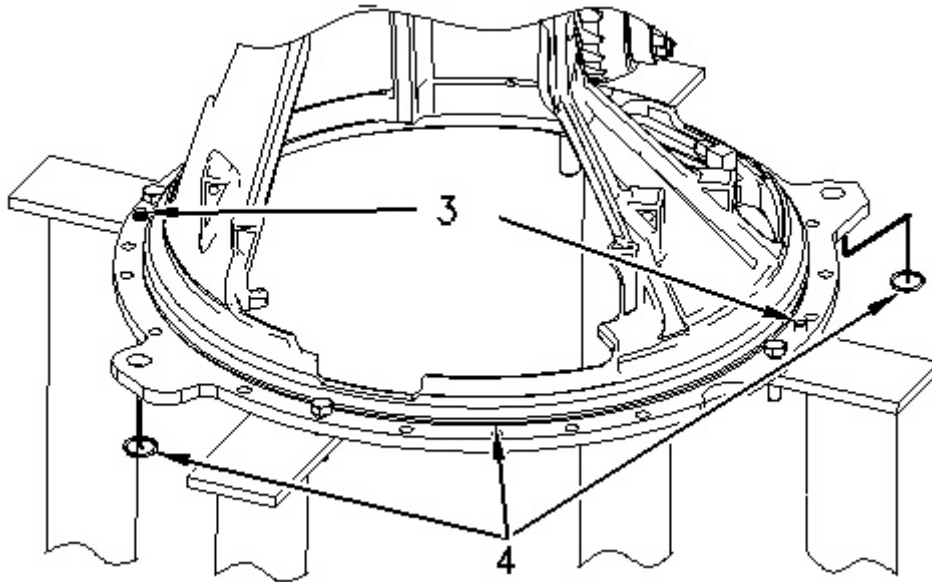


Illustration 3

g00954580

3. Remove O-ring seals (4) .
4. If necessary, remove pins (3) .

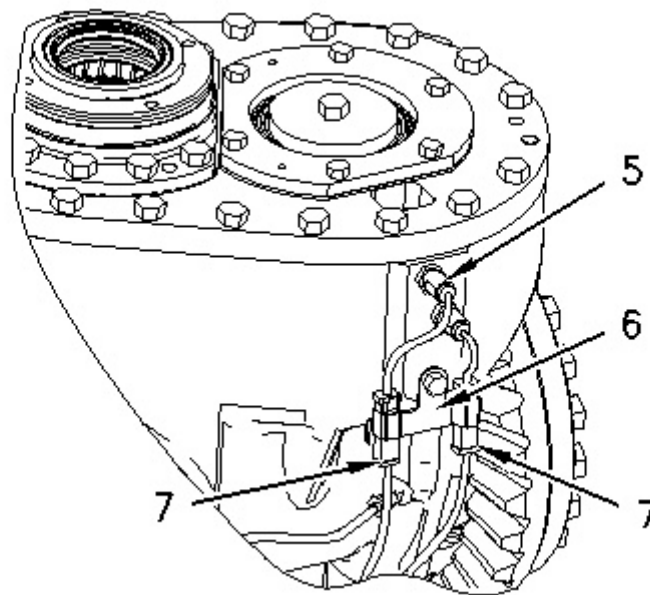
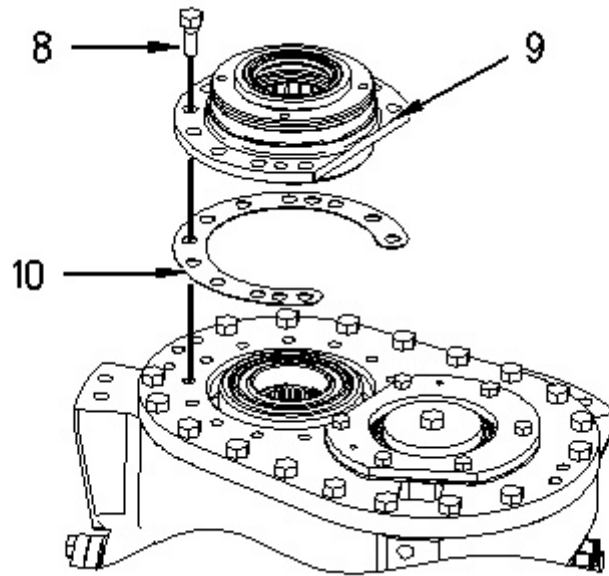


Illustration 4

g00954581

5. Disconnect harness assemblies (7) .
6. Remove sensors (5) .
7. Remove bracket (6) .

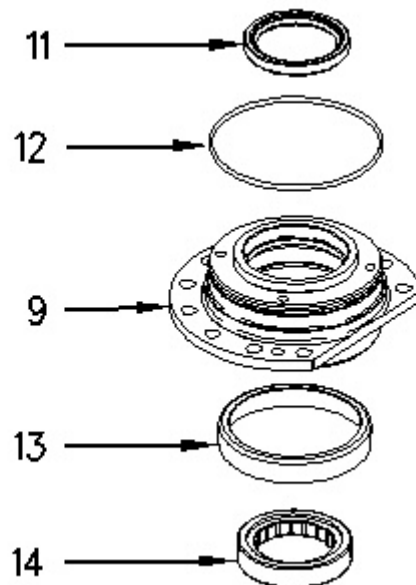


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Illustration 5

g00954584

8. Remove bolts (8) .
9. Use two bolts (8) in order to remove cage (9) .
10. Remove shims (10) .



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Illustration 6

g00954585

11. Remove O-ring seal (12) .
12. Remove seal (11) .

13. Remove bearing (14) .

14. Remove bearing cup (13) .

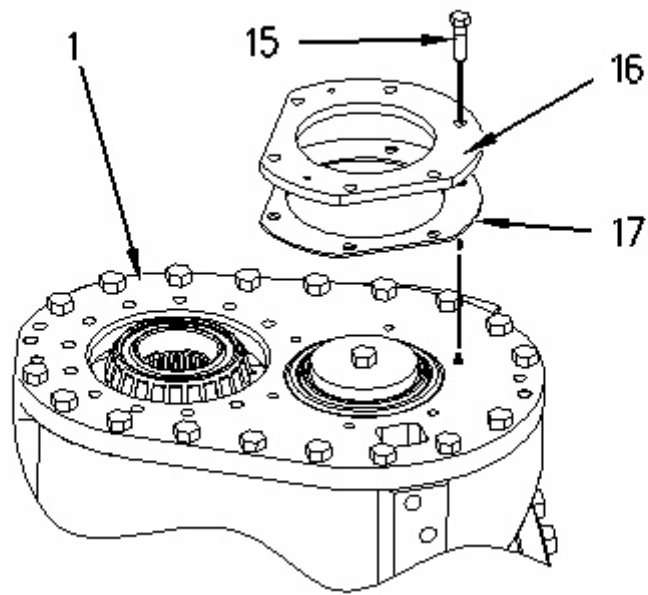


Illustration 7

g00954594

15. Remove bolts (15) .

16. Remove cover (16) .

17. Remove shims (17) .

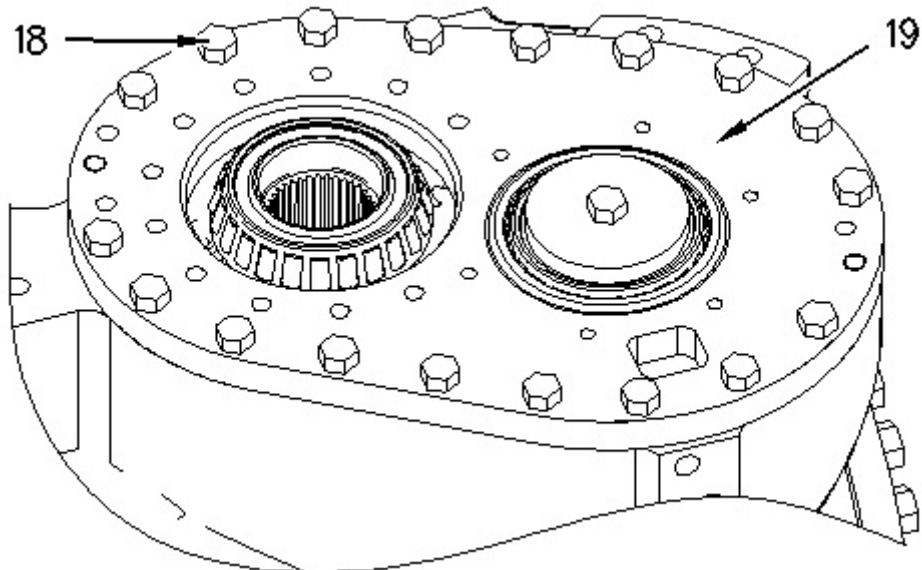
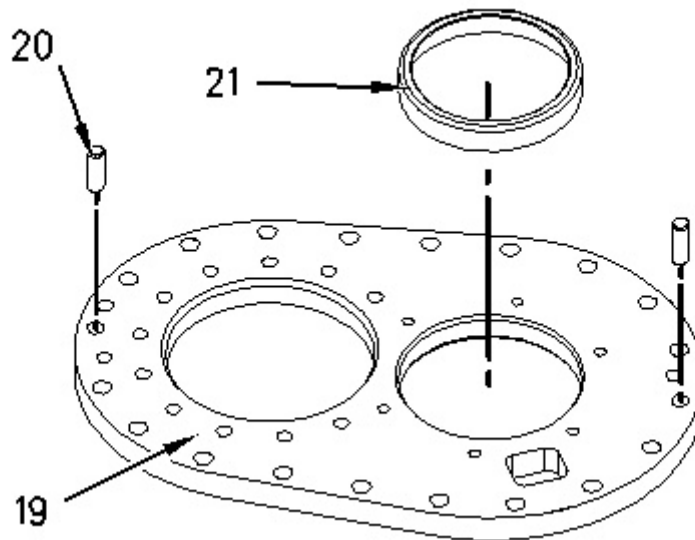


Illustration 8

g00954587

18. Remove bolts (18). Use two bolts 18 in order to remove cover (19). Tighten the two bolts evenly and remove cover (19) .

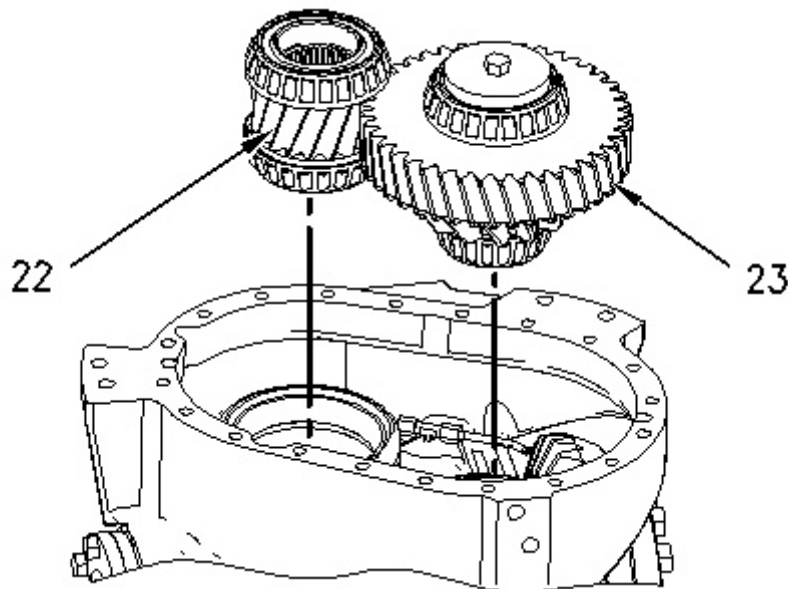


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Illustration 9

g00954589

19. If necessary, remove dowels (20) and bearing cup (21) from cover (19) .



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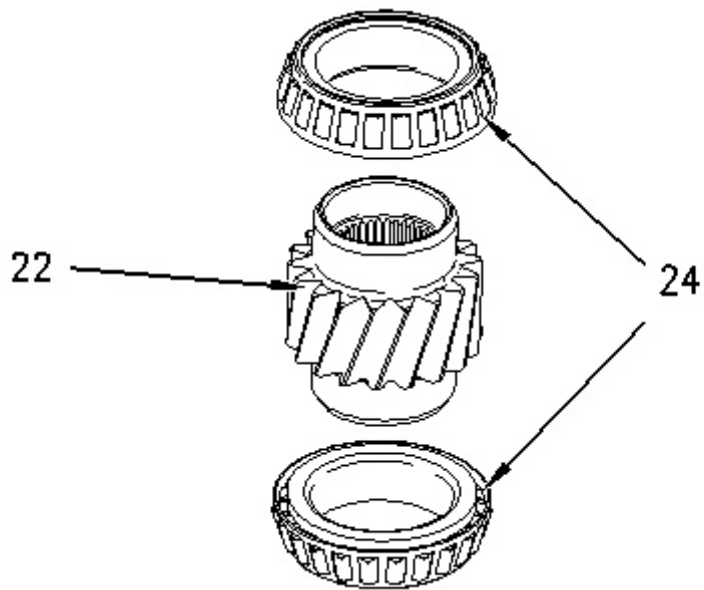
Illustration 10

g00954590

**Note:** Gears (22) and (23) must be removed from the case assembly at the same time.

20. Remove gear (22) and gear (23) from the case assembly.





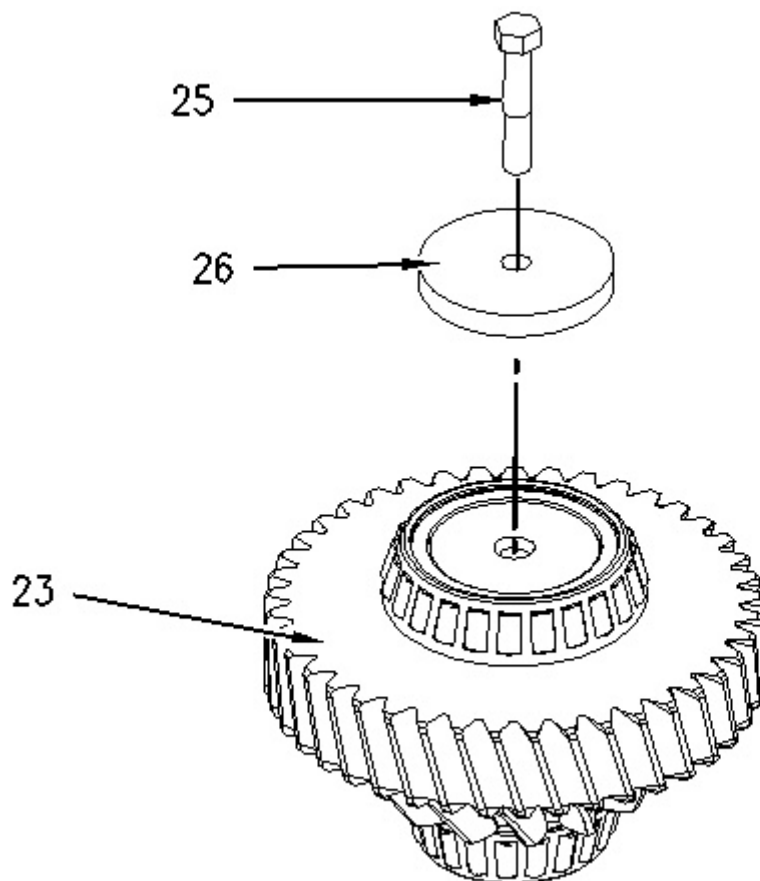
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Illustration 11

g00954593

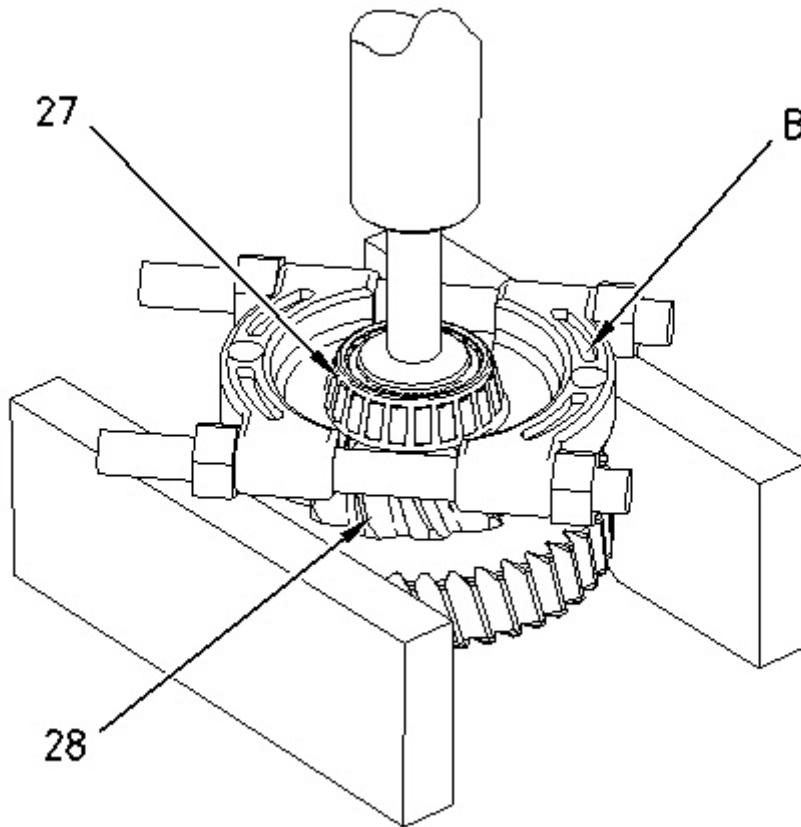
**Note:** Bearing cones (24) must be destroyed in order to remove the cones from the gear.

21. Remove bearing cones (24) from gear (22) .



22. Remove bolt (25) and retainer (26) from gear (23) .

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23. Use Tooling (B) and a press in order to remove bearing cone (27) from gear (28) .

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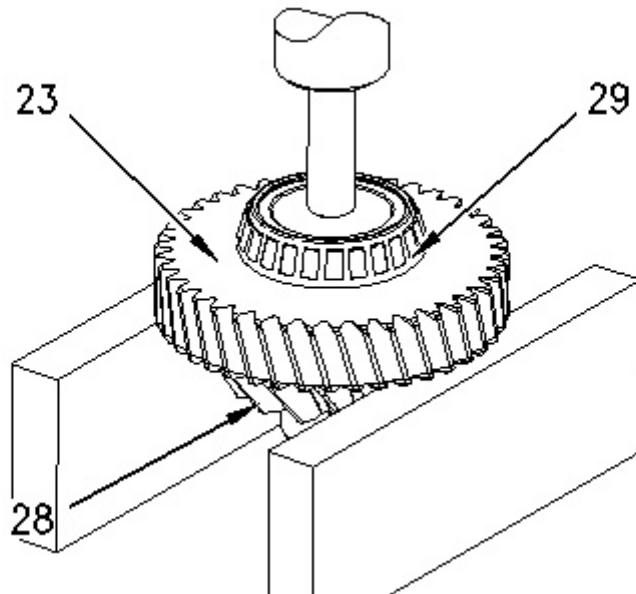


Illustration 14

g00954592

24. Use a suitable press in order to remove bearing cone (29) from gear (28) and from gear (23) .

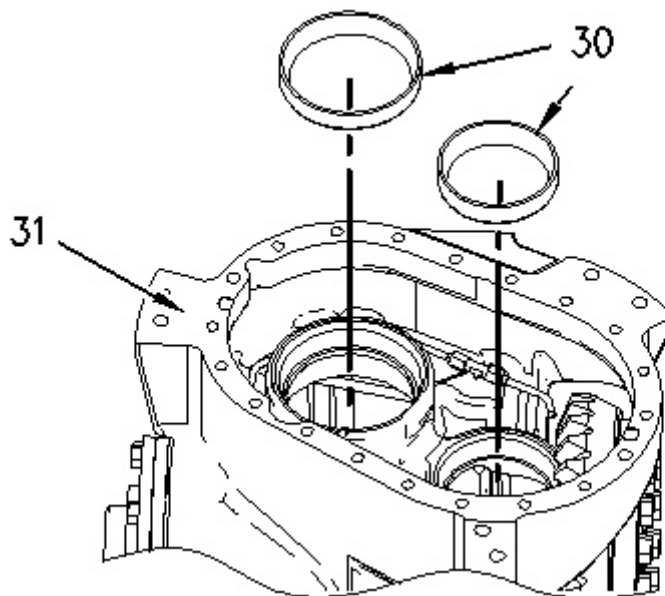
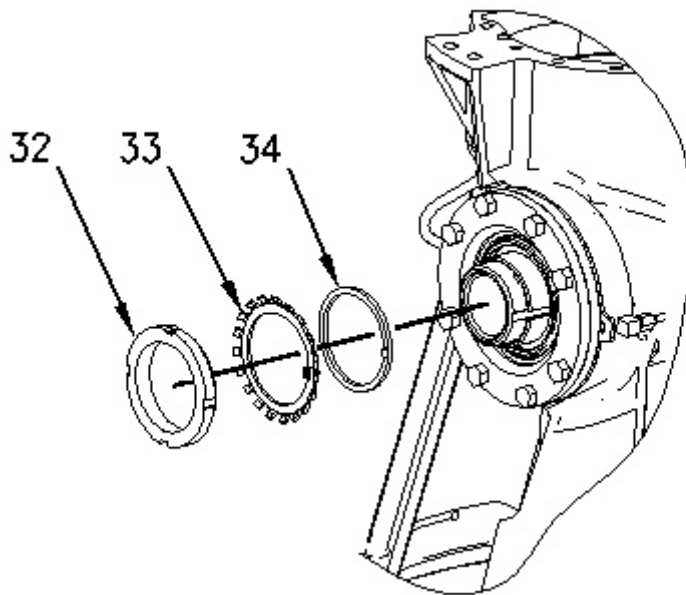


Illustration 15

g00954857

25. Remove bearing cups (30) from case (31) .



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Illustration 16

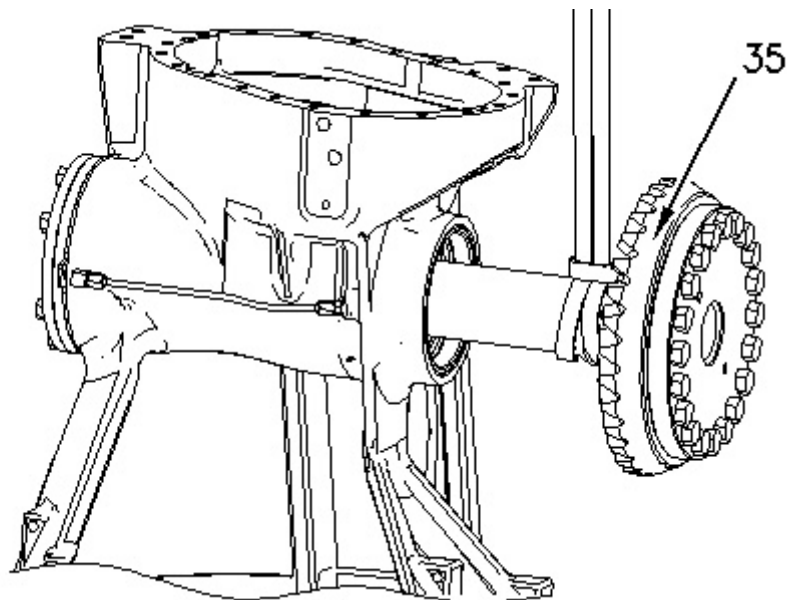
g00954859

26. Bend the tab on washer (33) away from nut (32) .

**Note:** Use a new washer (33) during assembly.

27. Use Tooling (C) in order to remove nut (32) .

28. Remove washer (34) .



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Illustration 17

g00954860

29. Attach a suitable lifting device to shaft assembly (35). The weight of the shaft is approximately 39 kg (86 lb).

30. Remove shaft assembly (35) .

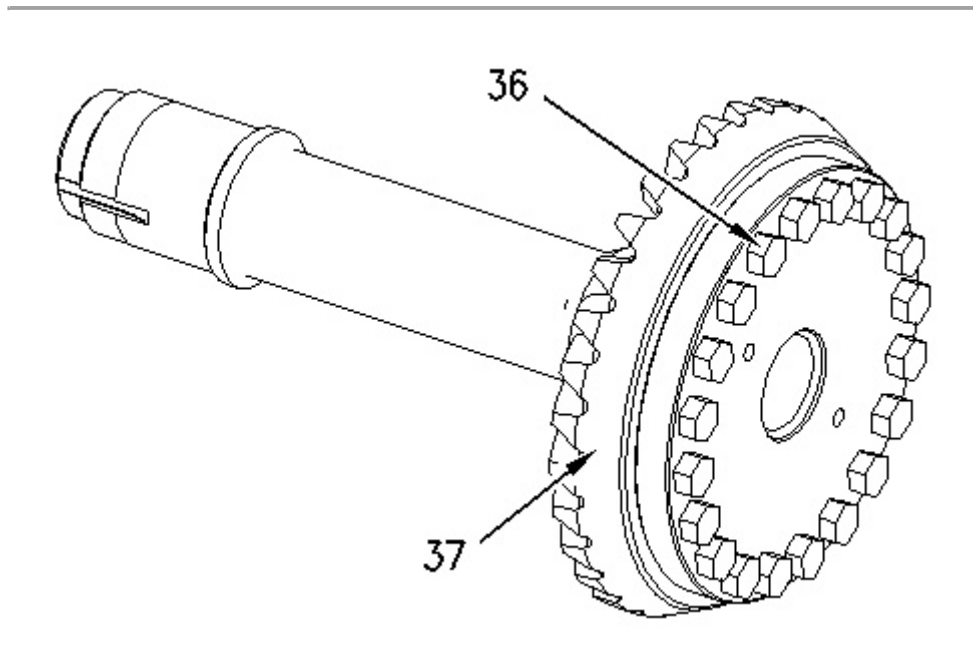


Illustration 18

g00954861

31. Remove bolts (36) .

32. Remove gear (37) .

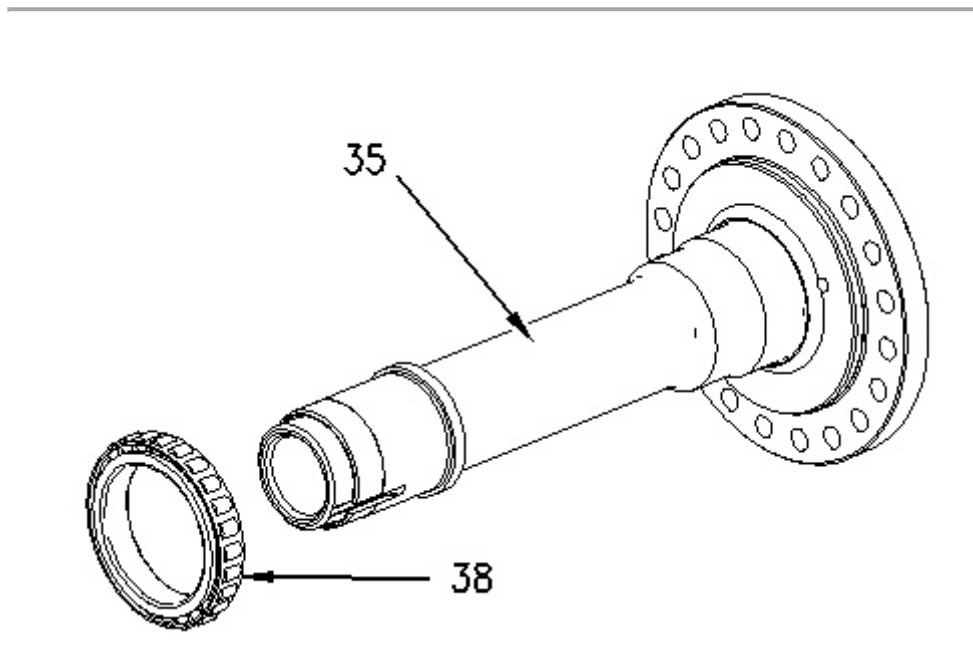
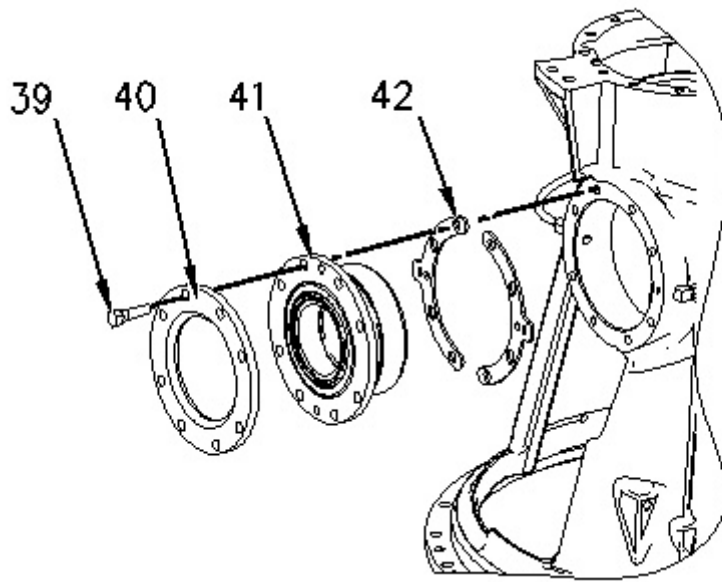


Illustration 19

g00954863

33. Remove the race and roller bearing (38) from shaft assembly (35) .

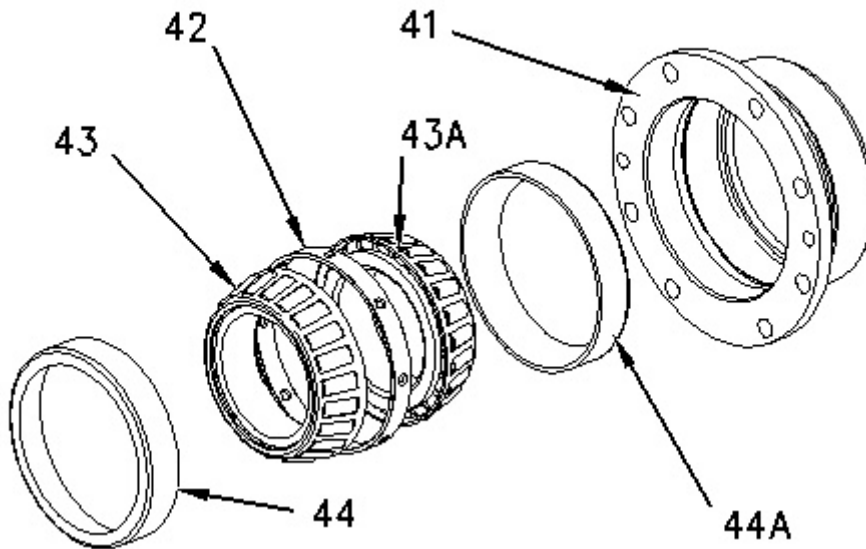


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Illustration 20

g00954864

- 34. Remove bolts (39) and retainer (40) .
- 35. Remove cage (41) and shims (42) .



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Illustration 21

g00954865

- 36. Remove the bearing cone and bearing cup (43) .
- 37. Remove spacer (42) .
- 38. Remove the bearing cone and bearing cup (44) from cage (41) .

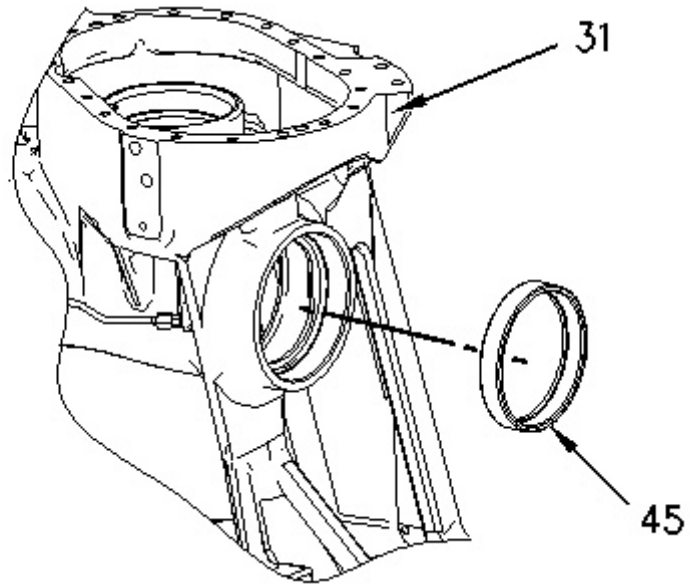


Illustration 22

g00960207

39. Remove bearing cup (45) from case (31) .

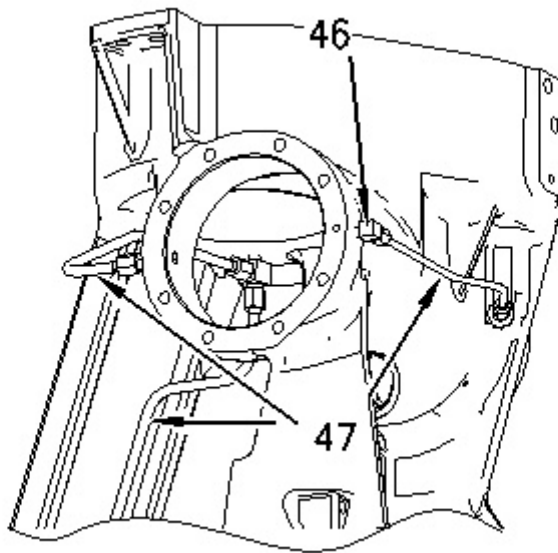


Illustration 23

g00960209

40. Remove tube assemblies (47) and fittings (46), if necessary.

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## Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01876038

# Bevel and Transfer Gears - Assemble

SMCS - 3011-016

## Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
C	8T-2839	Spanner Wrench	1
E	8T-5096	Dial Indicator Gp	1
	6V-6042	Indicator Point Gp	1
	8T-4122	Hard Washer	1
F	8B-7558	Adapter	1
	1B-3623	Bolt	1
	2P-8260	Cylinder Liner Installer	1
	2P-8260	Cylinder Liner Installer	1
	9U-6207	Plate	1
G	031-9099	Bolt	1
	2J-3506	Full Nut	1
	8T-4994	Hard Washer	1
H	4C-5597	Anti-Seize Compound	1
I	5P-3413	Pipe Sealant	1



J	1U-7234	Feeler Gauge	1
K	1P-0510	Driver Gp	1
L	FT-2973	Holding Plate	1

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## NOTICE

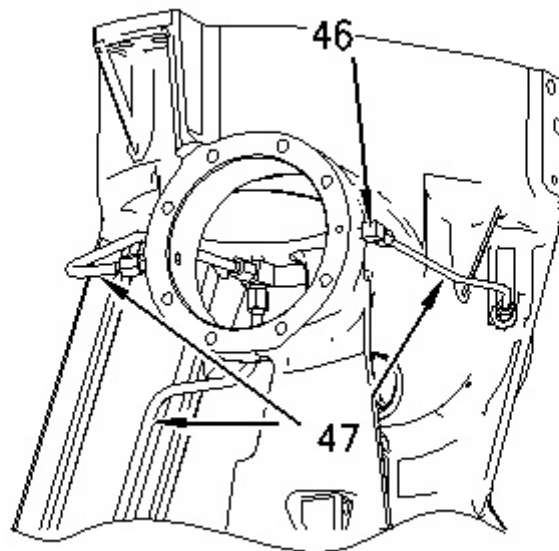
**Keep all parts clean from contaminants.**

**Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.**

**To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.**

**Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.**

---



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Illustration 1

g00960209

1. Install fittings (46) and tube assemblies (47) .
-

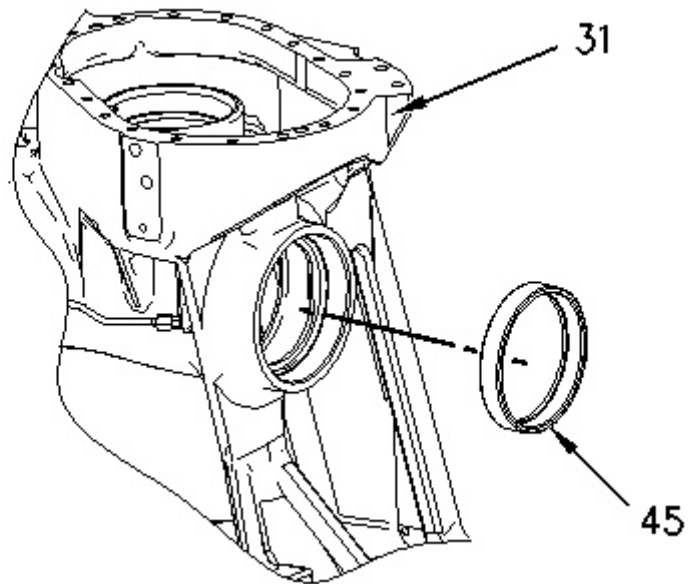


Illustration 2

g00960207

2. Lower the temperature of bearing cup (45) .
3. Install bearing cup (45) into case (31) .

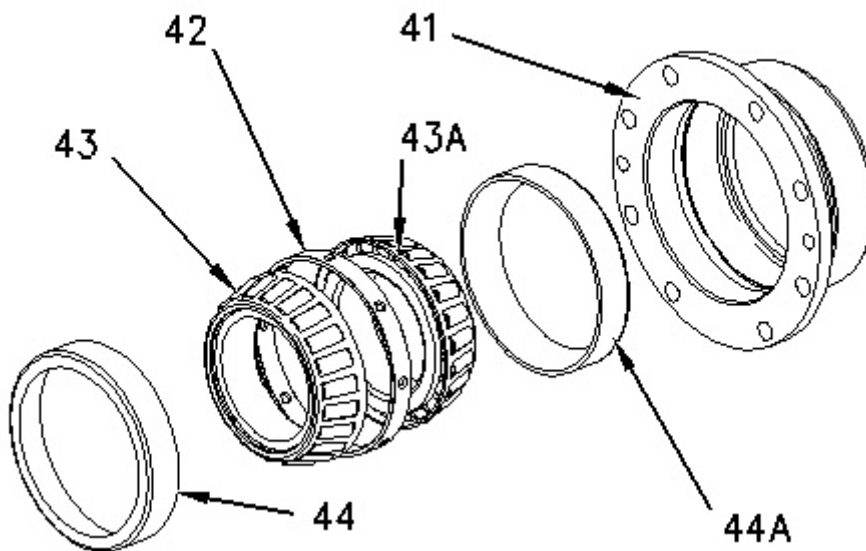
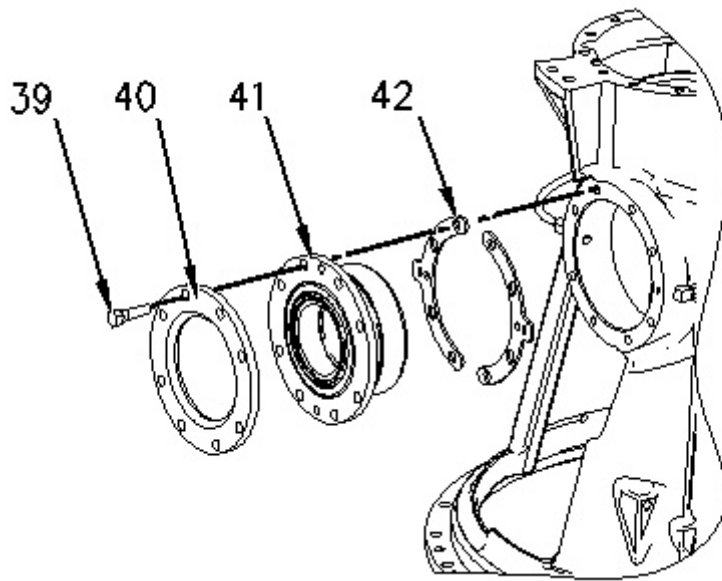


Illustration 3

g00954865

4. Lower the temperature of bearing cup (44) and bearing cup (44A) .
5. Install the bearing cup (44A) and bearing cone (43A) into cage (41) .
6. Install spacer (42) .
7. Install bearing cone (43) and bearing cup (44) .

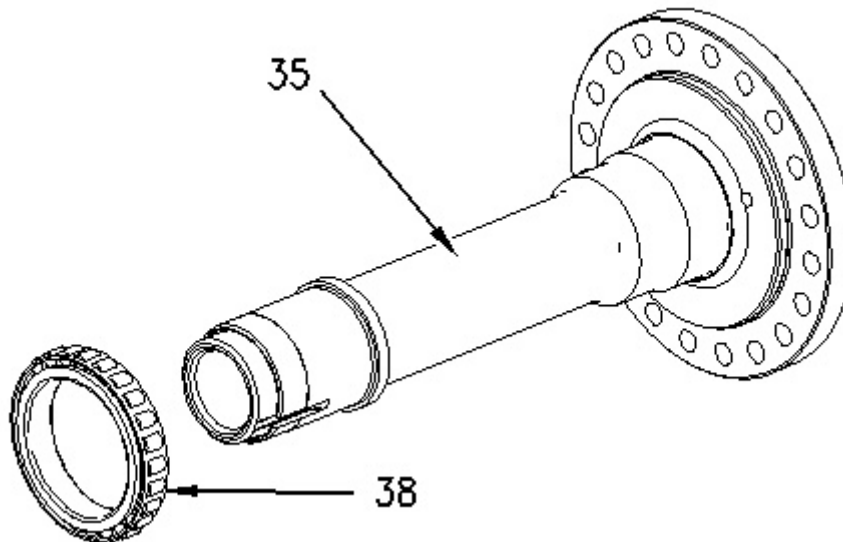


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Illustration 4

g00954864

8. Install original shims (42) and cage (41) .
9. Position retainer (40). Install bolts (39) .



---

Illustration 5

g00954863

10. Raise the temperature of roller bearing (38) .
11. Install roller bearing (38) onto shaft assembly (35) .

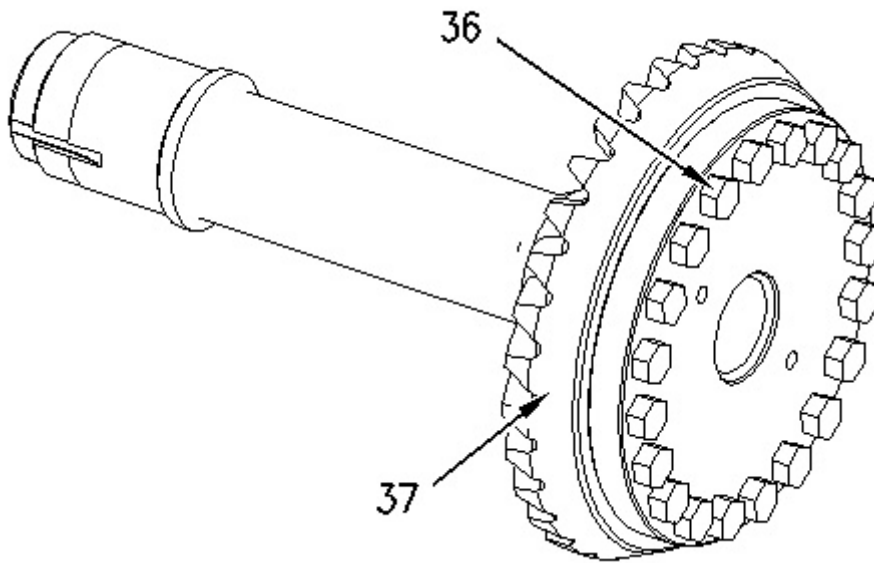


Illustration 6

g00954861

12. Position gear (37) .
13. Install bolts (36) .

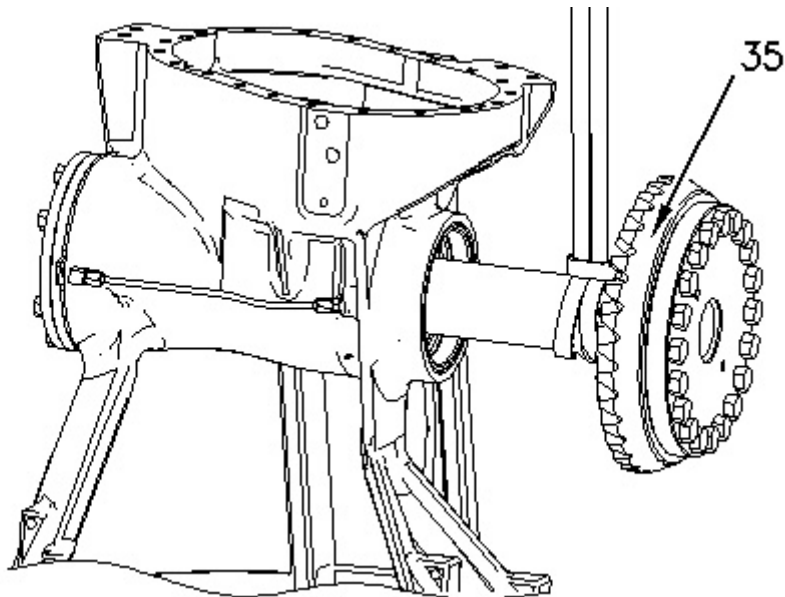
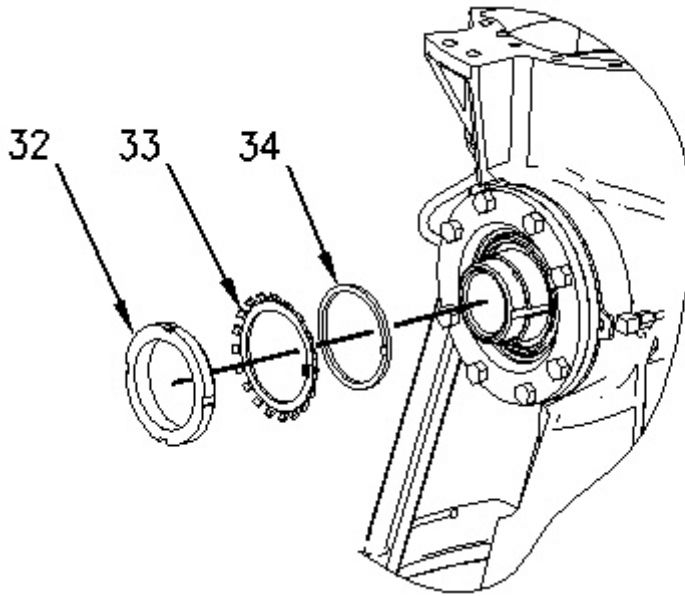


Illustration 7

g00954860

14. Attach a suitable lifting device to shaft assembly (35). The weight of the shaft assembly is approximately 39 kg (86 lb).
15. Install shaft assembly (35) .



---

Illustration 8

g00954859

16. Install washer (34) .

17. Install washer (33) .

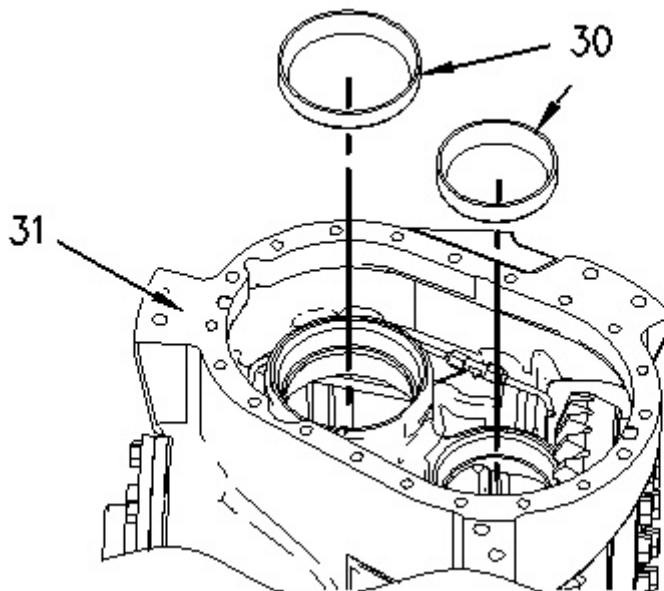
**Note:** Use a new washer (33) during assembly.

18. Apply Tooling (H) to the threads and to the face of nut (32) .

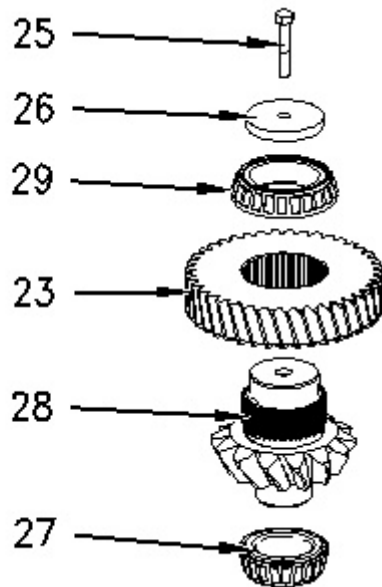
19. Install nut (32) .

20. Use Tooling (C) in order to tighten nut (32) to a torque of  $612 \pm 68 \text{ N}\cdot\text{m}$  ( $451 \pm 50 \text{ lb ft}$ ).

21. Bend the tab on washer (33) toward nut (32) .



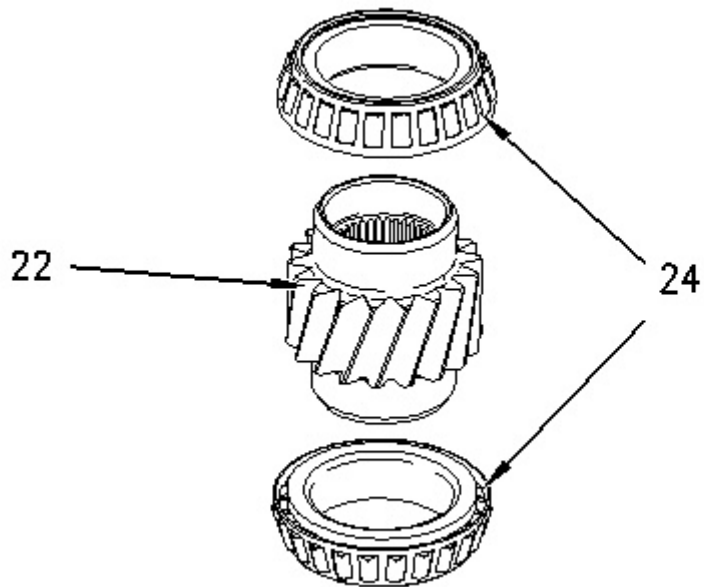
22. Lower the temperature of bearing cups (30) .
23. Install bearing cups (30) into case (31) .



---

Illustration 10

24. Raise the temperature of bearing cone (27) and bearing cone (29) .
  25. Install bearing cone (27) onto gear (28) .
  26. Install gear (28) into gear (23) .
  27. Install bearing cone (29) onto gear (28) .
  28. Position retainer (26).
  29. Install bolt (25) .
-

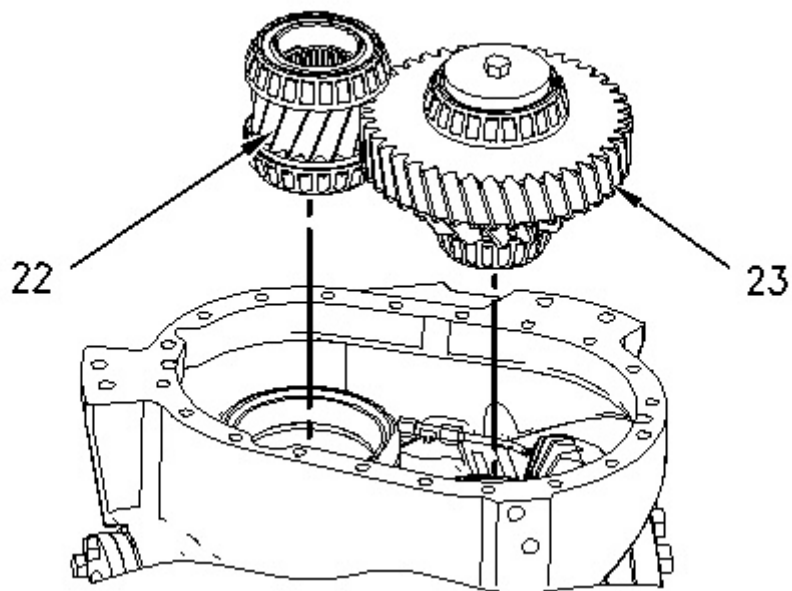


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Illustration 11

g00954593

30. Raise the temperature of bearing cones (24) .
31. Install bearing cones (24) onto gear (22) .



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Illustration 12

g00954590

**Note:** Gears (22) and (23) must be installed into the case assembly at the same time.

32. Install gear (22) and gear (23) into the case assembly.
-

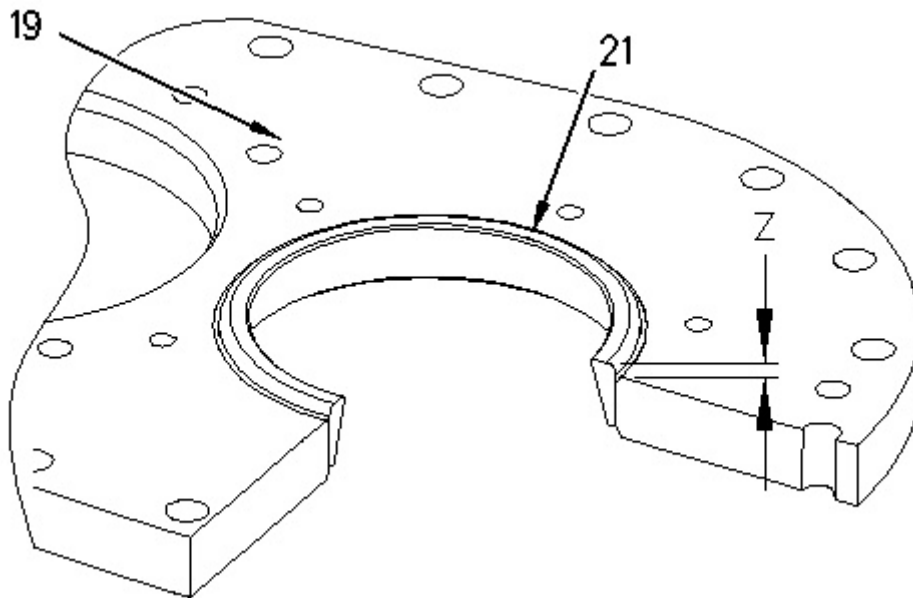


Illustration 13

g00984442

33. Install bearing cup (21) into cover (19). Dimension (Z) is 4.30 mm (0.17 inch).

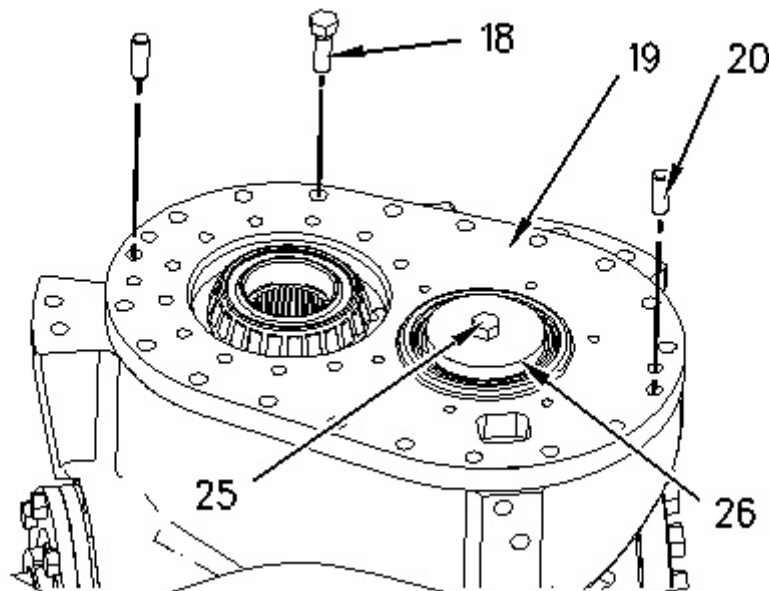


Illustration 14

g00984467

34. Position cover (19) .
35. Install dowels (20), if dowels (20) were removed. Install bolts (18) .
36. Remove bolt (25) and retainer (26) .



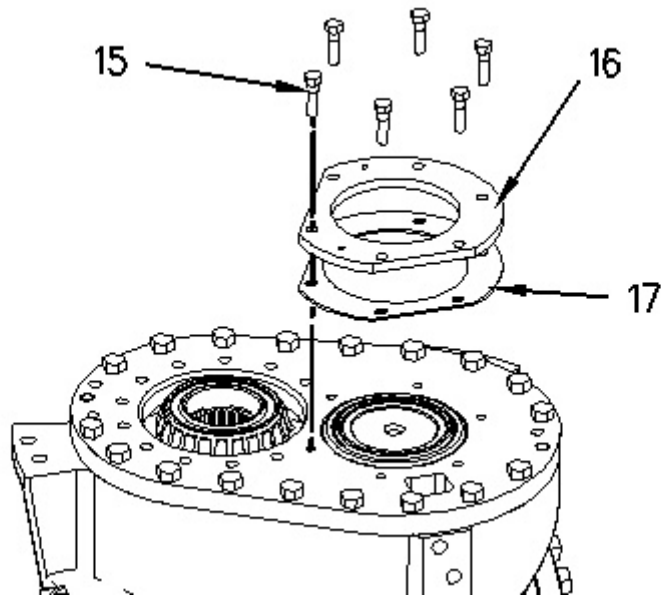


Illustration 15

g00984477

37. Position shim (17) that is equal to 4.30 mm (0.169 inch) onto cover (19) .
38. Install cover (16) and bolts (15) .

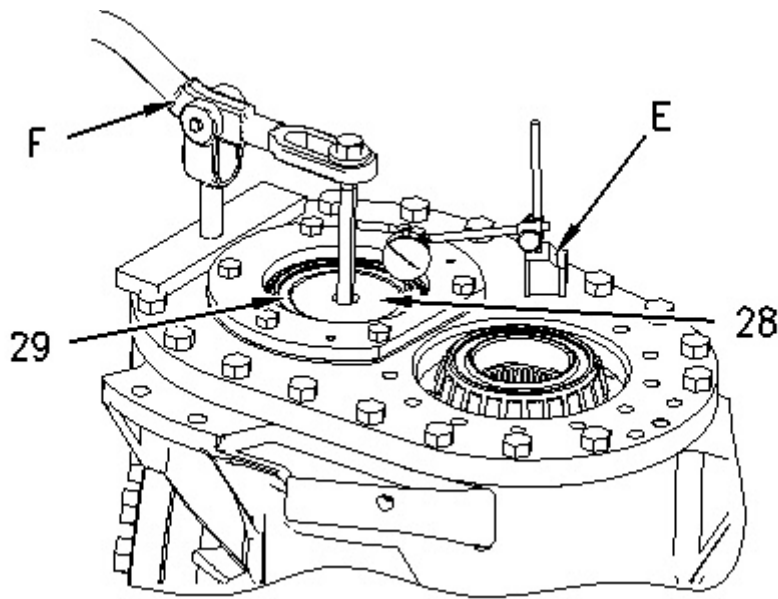


Illustration 16

g00984480

39. Install Tooling (E) and Tooling (F) .
40. Rotate gear (28) in order to find the high spot on bearing face (29) .
41. Zero Tooling (E) .
42. Obtain an end play measurement.

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