

Product: TRACK-TYPE TRACTOR

Model: D5N TRACK-TYPE TRACTOR AGG

Configuration: D5N XL, LGP TRACK-TYPE TRACTOR AGG00001-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

i01872268

# Torque Converter - Disassemble

SMCS - 3101-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-1452	Retaining Ring Pliers	1
B	1P-0510	Driver Gp	1
C	138-7573	Link Bracket	2
D	2P-8312	Retaining Ring Pliers	1
F		8 mm Forcing Bolts	2

### Start By:

- A. Remove the torque converter. Refer to Disassembly and Assembly, "Torque Converter - Remove".
  - B. Remove the torque converter outlet relief valve. Refer to Disassembly and Assembly, "Torque Converter Outlet Relief Valve - Remove".
-

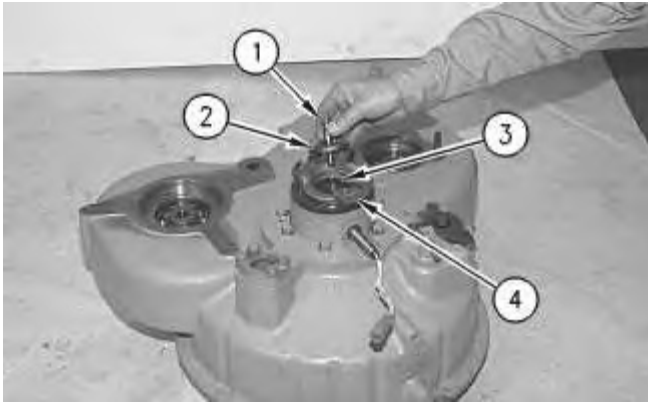


Illustration 1

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1. Remove bolt (1) and retainer (2) .
2. Remove yoke (4) and O-ring seal (3) from the shaft.

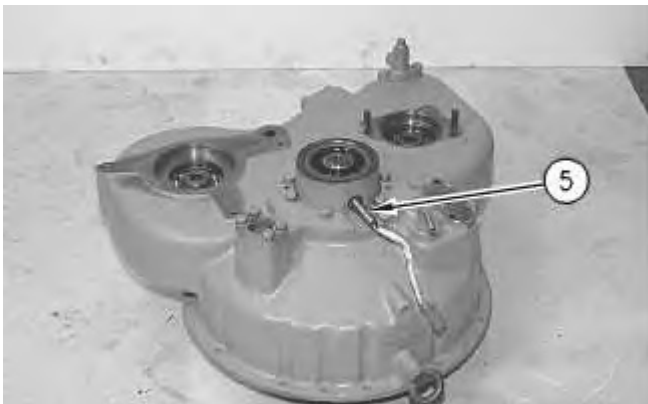


Illustration 2

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3. Remove sensor (5) from the carrier.

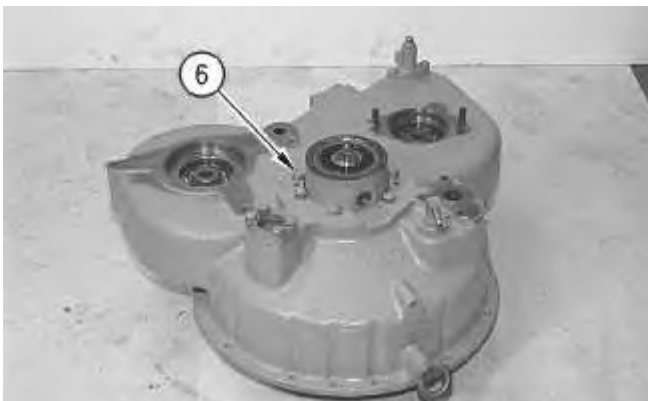


Illustration 3

g00953629



Illustration 4

g00953630

4. Remove bolts (6) from the housing.
5. Install Tooling (C) and a suitable lifting device to the housing. Remove housing (7) from torque converter assembly (8). The weight of the housing is approximately 57 kg (125 lb).

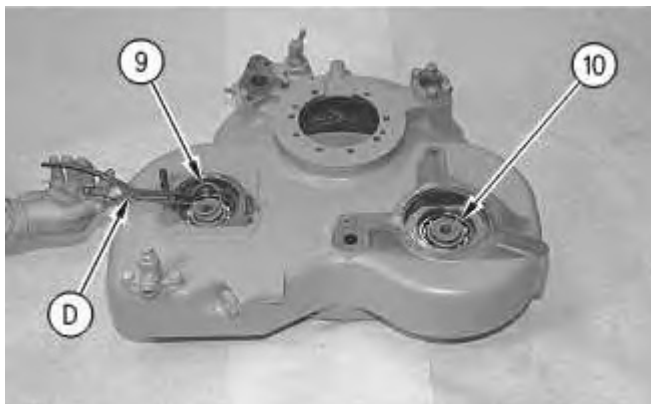
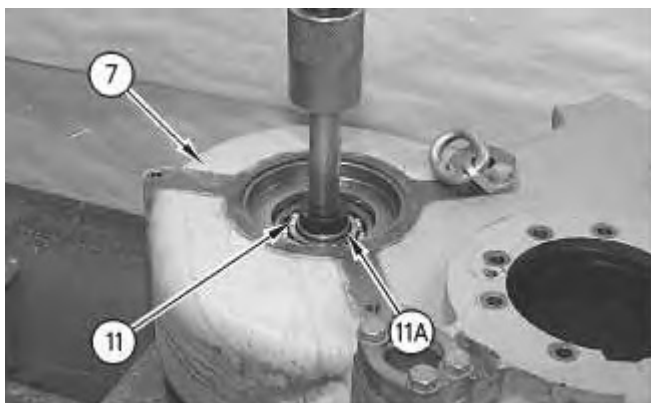


Illustration 5

g00953631



6. Use Tooling (D) in order to remove rings (9) and (10) from the shafts.
7. Remove both drive gear assemblies (11A) from bearing (11) and housing (7) by using a press.

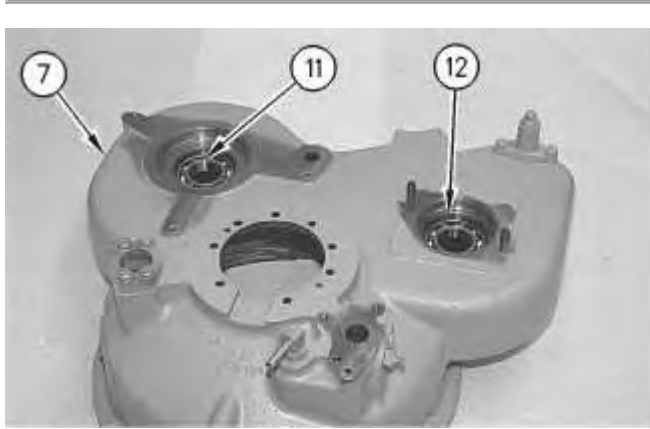


Illustration 7

g00953633

8. Remove retaining rings (12) from each bearing (11). Remove the bearings from the housing.

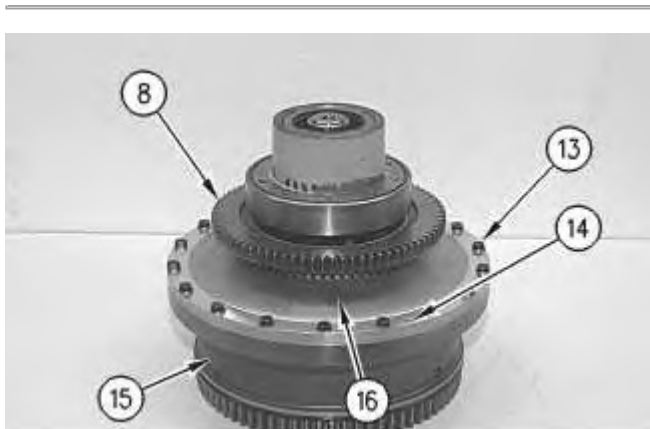


Illustration 8

g00953634

9. Remove bolts (13) from torque converter assembly (8) .
  10. Install Tooling (F) in holes (14). Tighten evenly in order to separate impeller (16) from housing (15) .
-

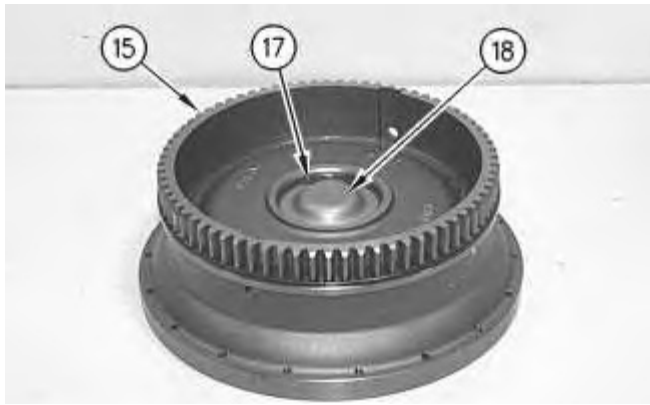


Illustration 9

g00953635



Illustration 10

g00953636

11. Turn over housing (15). Remove retaining ring (17) and cover (18) .
12. Remove O-ring seals (19) .

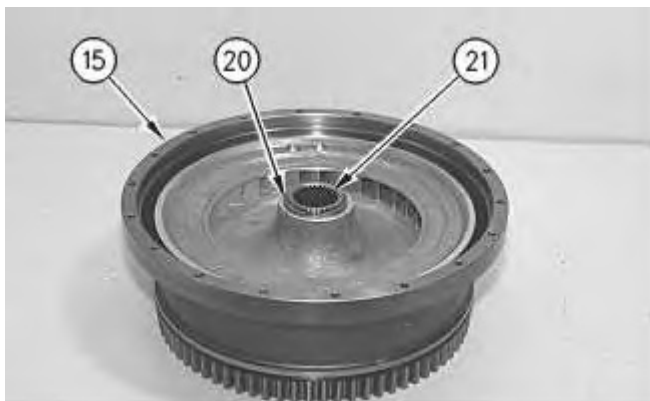


Illustration 11

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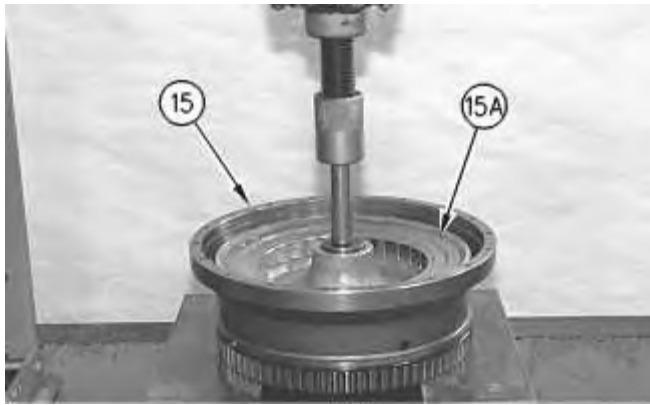


Illustration 12

g00953638

13. Turn over housing (15) and remove retaining ring (20) .
14. Press shaft (21) from housing (8). Remove turbine (15A) .

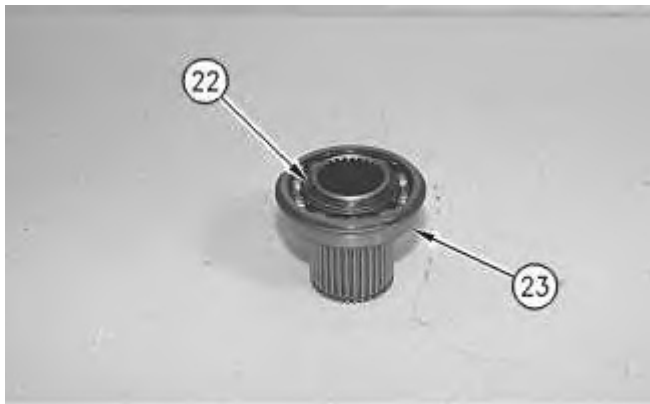


Illustration 13

g00953639

15. Remove retaining ring (22) from the splined shaft.

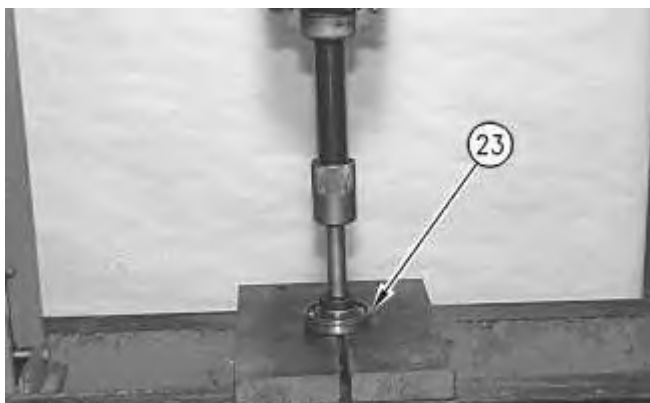


Illustration 14

g00953640

16. Remove the splined shaft from bearing (23) by using a press.

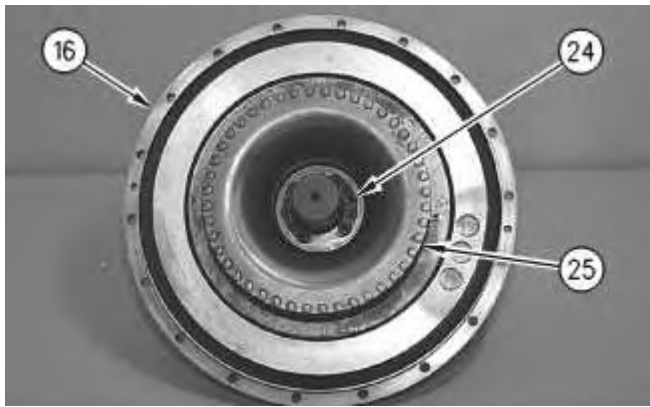


Illustration 15

g00953641

17. Remove bolts (24) and remove stator assembly (25) from impeller (16) .

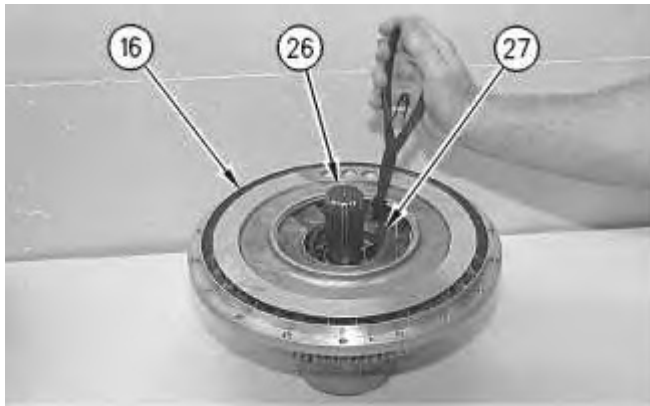


Illustration 16

g00953642

18. Use Tooling (A) in order to remove retaining ring (27). Remove impeller (16) from carrier assembly (26) .

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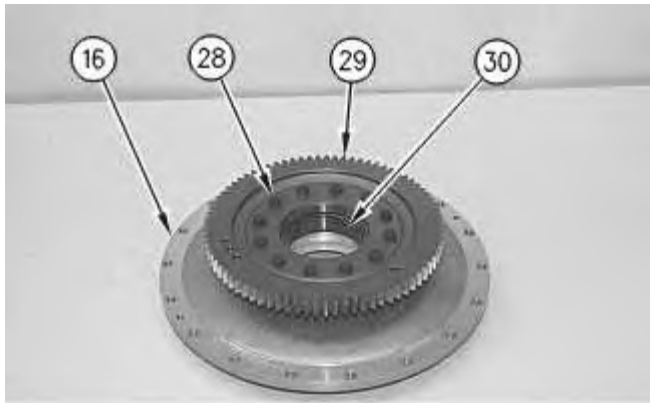


Illustration 17

g00953643

19. Remove bolts (28) and remove gear (29) from impeller (16) .
20. Remove bearing (30) from impeller (16) .

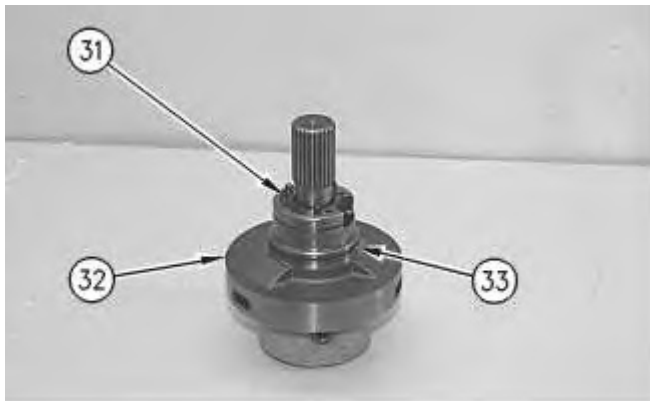
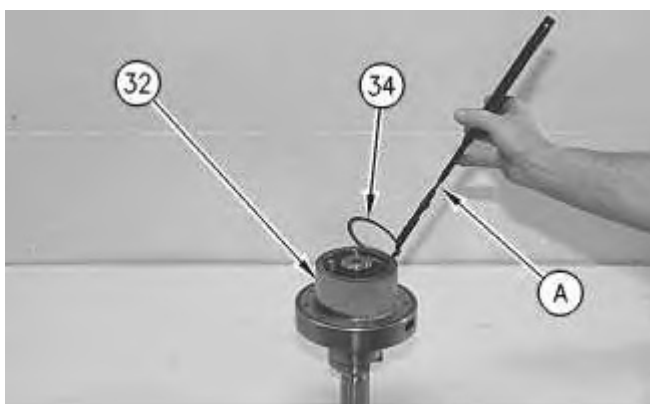


Illustration 18

g00953644

21. Remove pins (31) from carrier (32) .
22. Remove seal ring (33) .





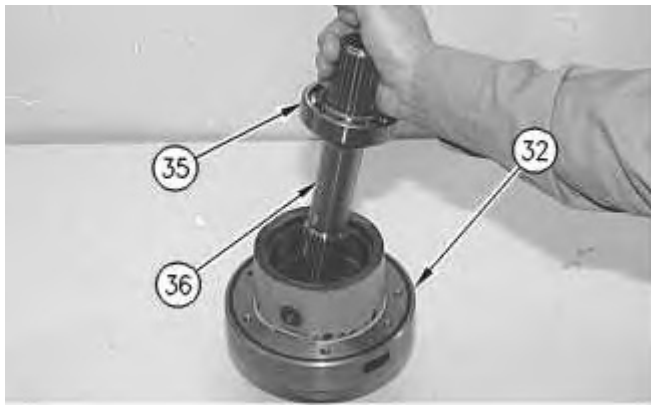


Illustration 20

23. Remove retaining ring (34) from inside carrier (32) by using Tooling (A) .
24. Remove shaft (36) and bearing (35) from the carrier.

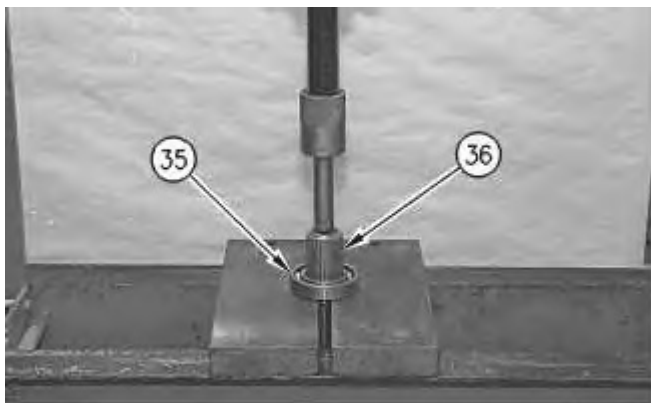


Illustration 21



25. Remove shaft (36) from bearing (35) by using a press.
  26. Remove seal ring (37) from shaft (36) .
-

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Configuration: D5N XL, LGP TRACK-TYPE TRACTOR AGG00001-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

i01872269

# Torque Converter - Assemble

SMCS - 3101-016

## Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-1452	Retaining Ring Pliers	1
B	1P-0510	Driver Gp	1
C	138-7573	Link Bracket	2
D	2P-8312	Retaining Ring Pliers	1
E	1P-0520	Driver Gp	1



Illustration 1

g00953649

1. Install seal ring (37) on shaft (36) .

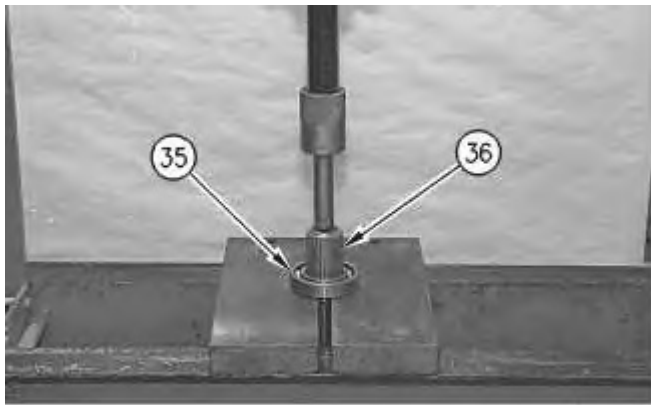


Illustration 2

g00953647

2. Install bearing (35) on shaft (36) .
3. Install bearing (35) and shaft (36) in carrier (32) .

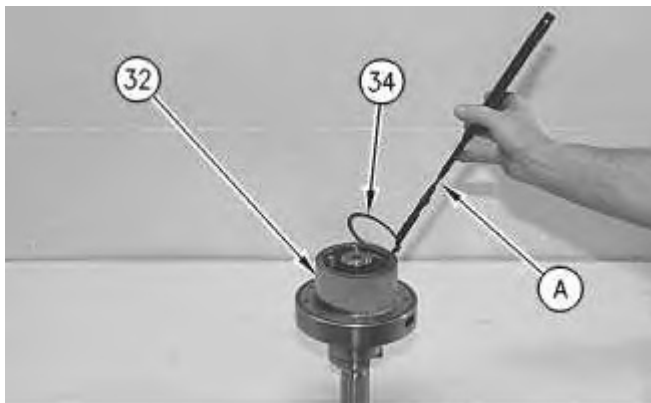


Illustration 3

g00953645

4. Install retaining ring (34) in carrier (32) by using Tooling (A) .
-

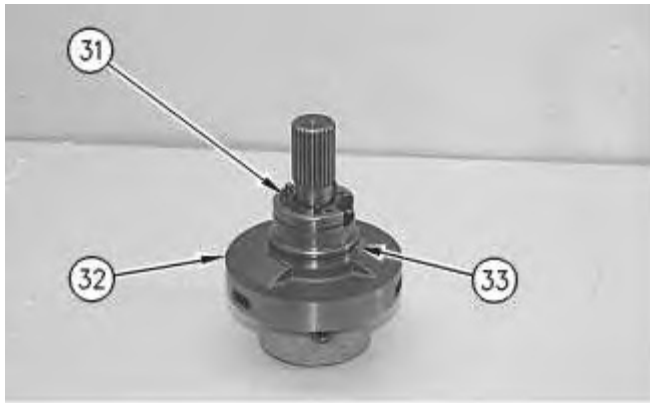


Illustration 4

g00953644

5. Install pins (31) and seal ring (33) on carrier (32) .

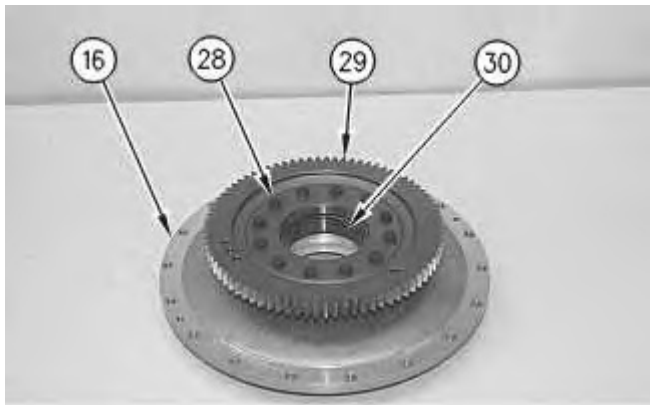


Illustration 5

g00953643

6. Lower the temperature of bearing (30). Install the bearing in impeller (16) .
7. Install gear (29) and bolts (28). Tighten bolts (28) to a torque of  $30 \pm 5$  N·m ( $22.0 \pm 4$  lb ft).

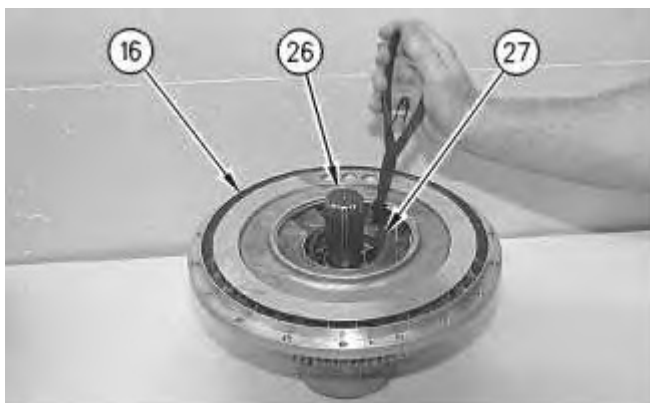


Illustration 6

g00953642

8. Install impeller (16) on carrier assembly (26) .
9. Use Tooling (A) in order to install retaining ring (27) .

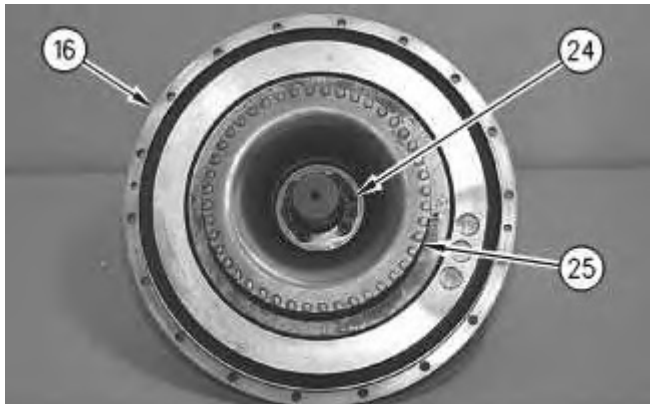


Illustration 7

g00953641

10. Install stator assembly (25) over the pins.
11. Install the plate and bolts (24). Tighten bolts (24) to a torque of  $30 \pm 5$  N·m ( $22 \pm 4$  lb ft).

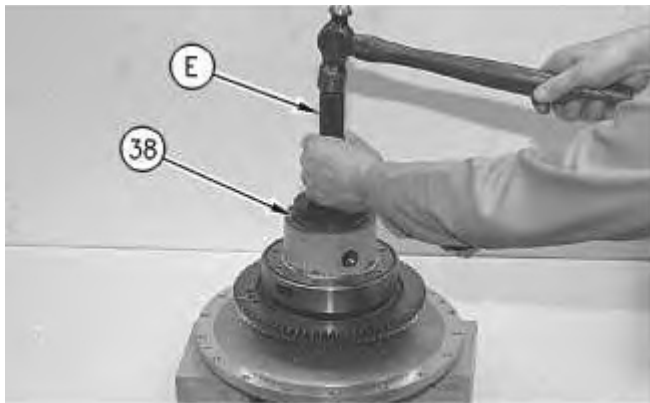


Illustration 8

g00953799

12. Install lip seal (38) by using Tooling (E) .
-

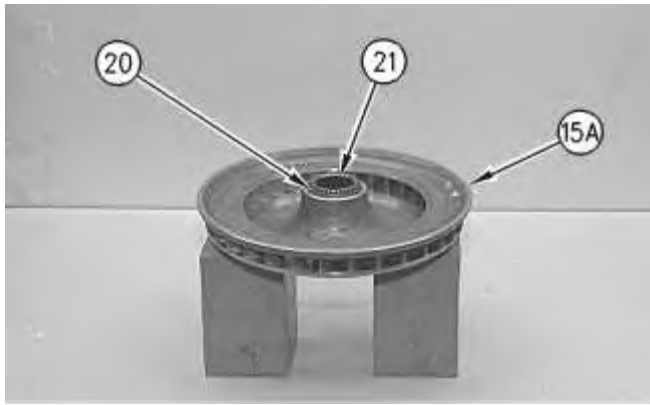


Illustration 9

g00953802

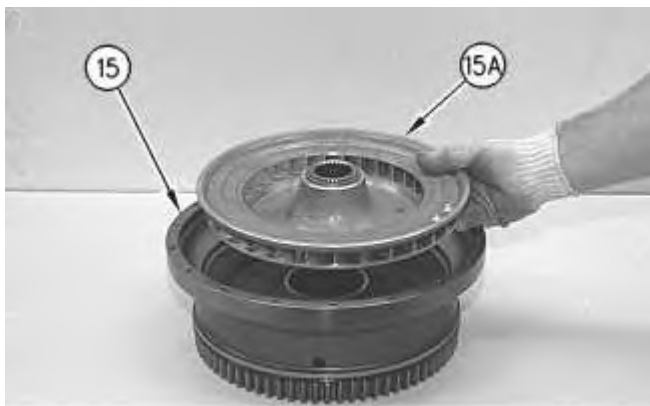


Illustration 10

g00953804

13. Install splined shaft (21) and retaining ring (20) in turbine (15A) .
14. Install turbine (15A) in housing (15) .



Illustration 11

g00953807

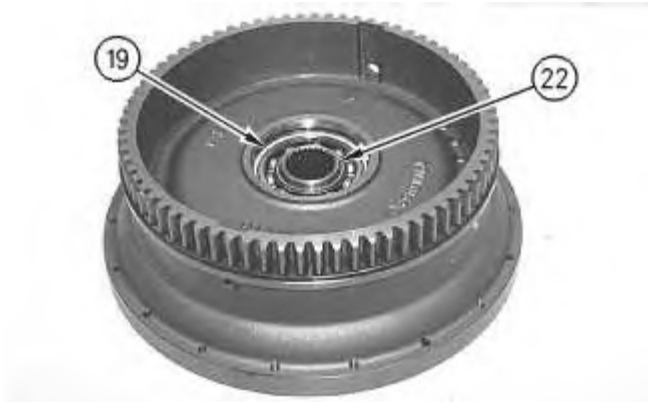


Illustration 12

g00953808

15. Install bearing (23) in housing (15) and over splined shaft (21) .
16. Install retaining ring (22) and O-ring seal (19) .



Illustration 13

g00953635

17. Install cover (18) and O-ring seal (19) .

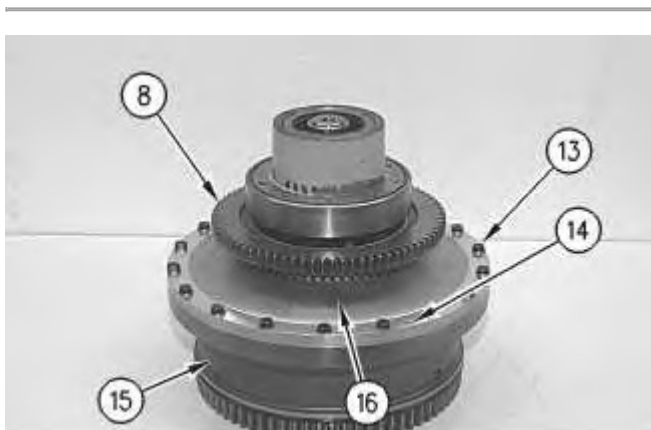


Illustration 14

g00953634



18. Install impeller (16) on housing (15) with bolts (13). Tighten the bolts to a torque of  $30 \pm 5$  N·m ( $22.0 \pm 4$  lb ft).

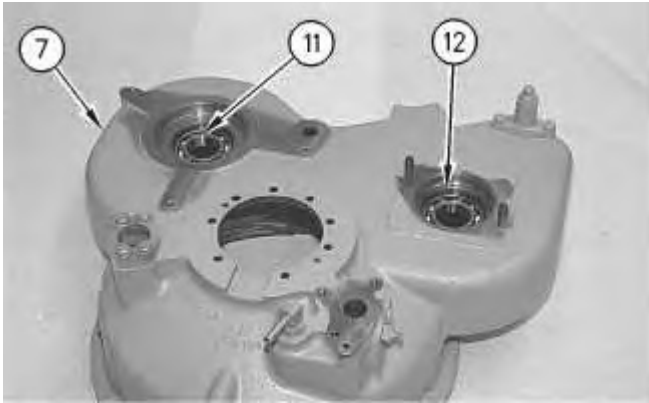


Illustration 15

g00953633

19. Install both bearings (11) and retaining rings (12) in housing (7) .

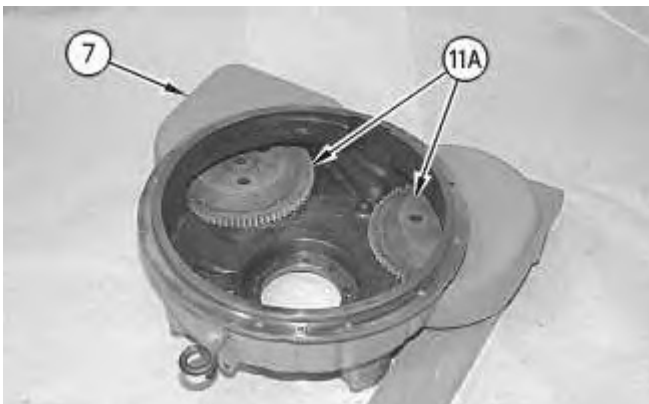


Illustration 16

g00953810

20. Lower the temperature of both drive gear assemblies (11A). Install the gear assemblies in housing (7) .
-

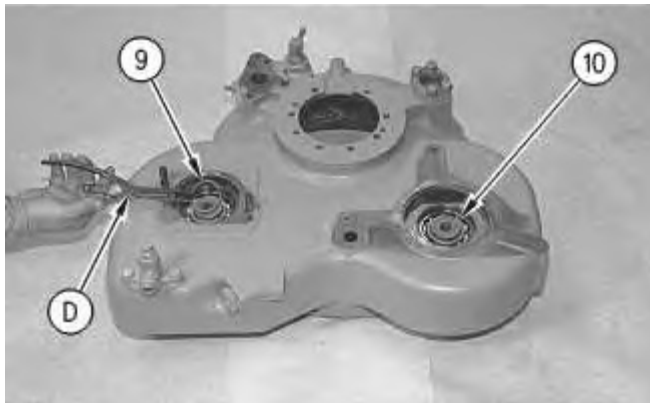


Illustration 17

g00953631

21. Install the rings (9) and (10) on the drive gear shafts.



Illustration 18

g00953630

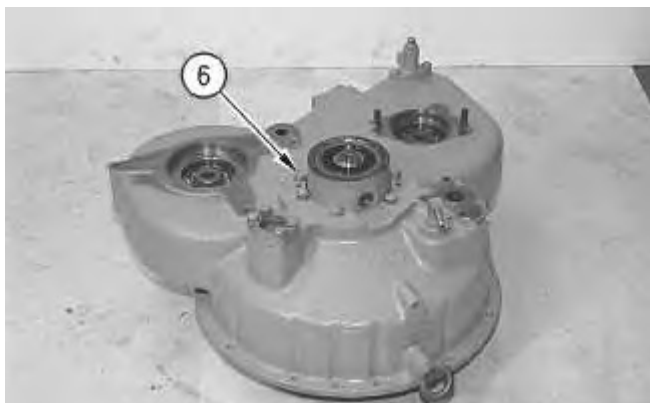


Illustration 19

g00953629

22. Install Tooling (C) and position housing (7) over torque converter assembly (8). The weight of the housing is approximately 57 kg (125 lb).

23. Install bolts (6) .

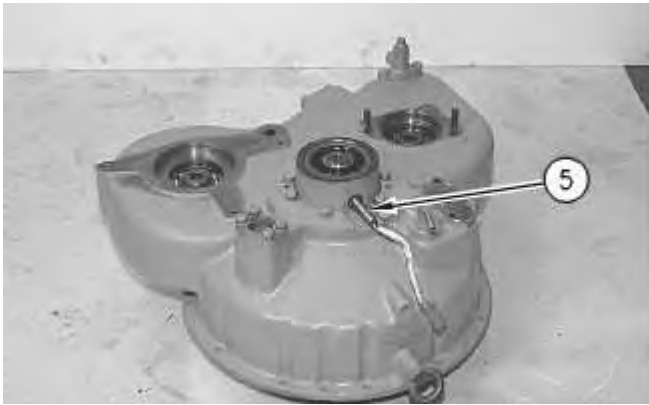


Illustration 20

g00953628

24. Install the magnetic pickup sensor (5). Adjust sensor (5) in order to obtain a 0.89 mm (.0350 inch) air gap.

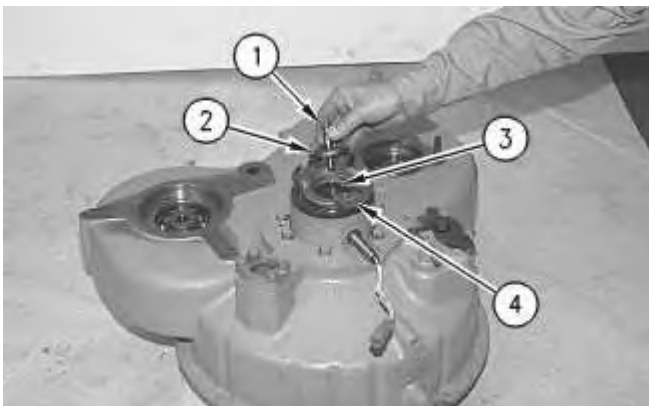


Illustration 21

g00953626

25. Install yoke (4), O-ring seal (3), retainer (2), and bolt (1). Tighten bolt (1) to a torque of  $105 \pm 15 \text{ N}\cdot\text{m}$  ( $75 \pm 11 \text{ lb ft}$ ).

**End By:**

- a. Install the torque converter outlet relief valve. Refer to Disassembly and Assembly, "Torque Converter Outlet Relief Valve - Install".
  - b. Install the torque converter. Refer to Disassembly and Assembly, "Torque Converter - Install".
-

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