

Product: WHEEL LOADER

Model: 966F II WHEEL LOADER 1SL

Configuration: 966F Series II Wheel Loader 1SL00507-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly 966F Series II Wheel Loader Power Train

Media Number -SEN5923-05

Publication Date -01/10/2004

Date Updated -07/10/2004

i01592831

Torque Converter - Disassemble

SMCS - 3101-015

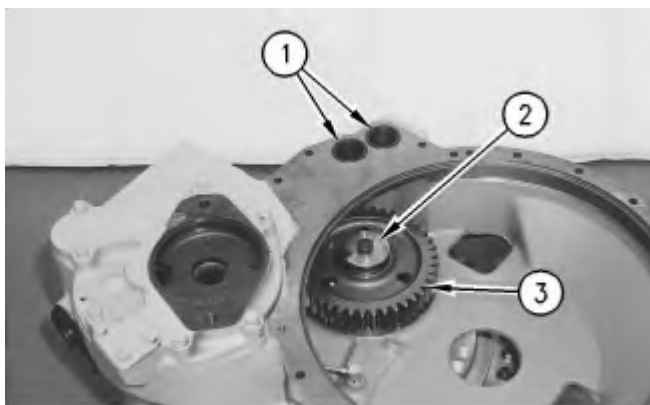
Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-2156	Link Bracket	2
B	1P-0510	Driver	1
C	2P-8312	Pliers	1

Start By:

- A. Separate the torque converter from the transmission. Refer to Disassembly and Assembly, "Torque Converter from Transmission, Output Transfer Gears - Separate".



1. Remove O-ring seals (1) from the torque converter housing.
2. Remove the bolt, retainer (2) and gear (3) from the output shaft.

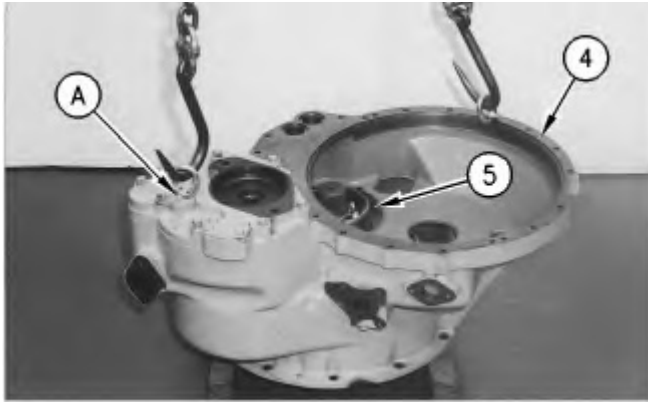


Illustration 2

3. Fasten Tooling (A) and a hoist to torque converter housing (4), as shown. Remove eight bolts (5) and torque converter housing (4). The weight of the torque converter housing is 113 kg (250 lb).

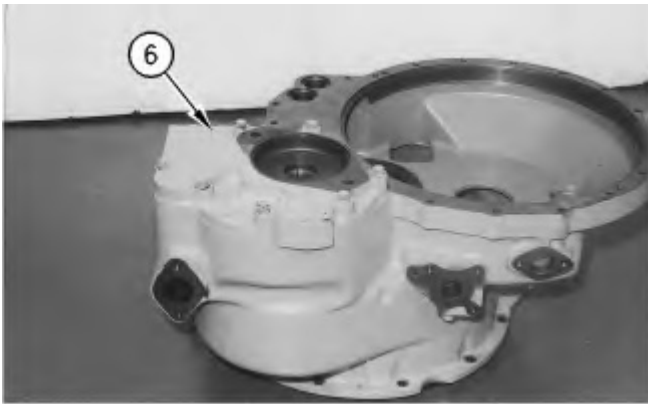


Illustration 3

4. Remove the bolts and transmission oil pump (6) from the torque converter housing.
-

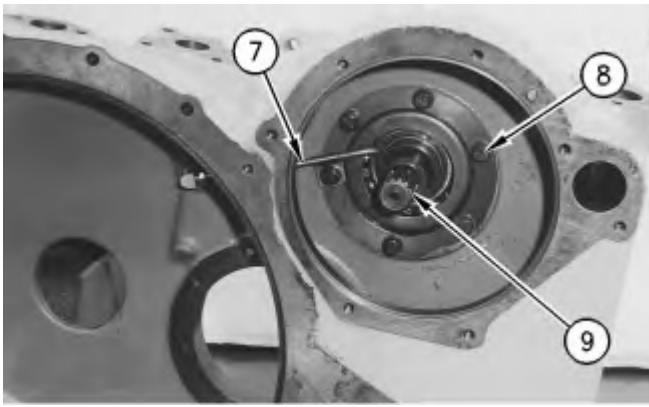


Illustration 4

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5. Pull shaft (9) out of the oil pump drive gear.
6. Remove bolts (8) and tube assembly (7) from the torque converter housing.

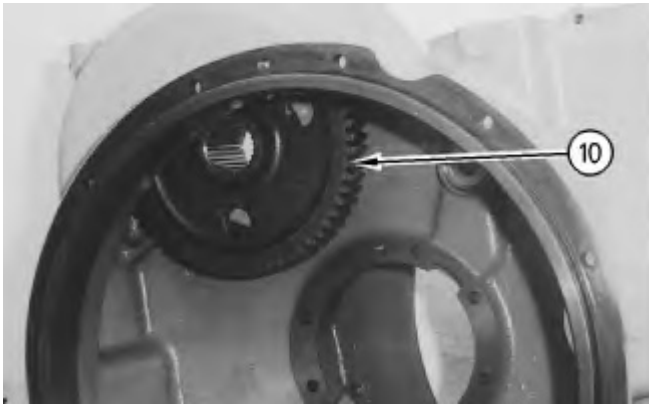
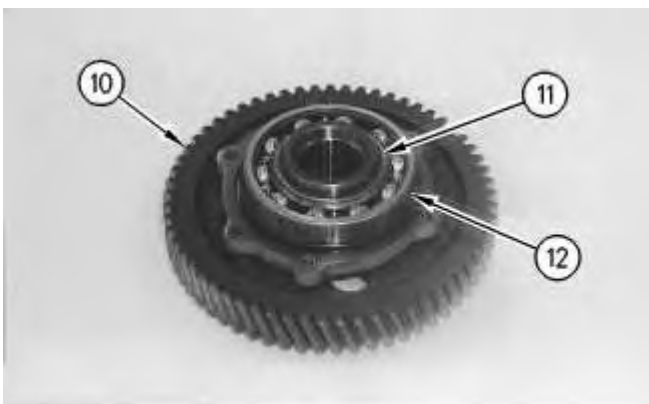


Illustration 5

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7. Remove transmission oil pump drive gear (10) from the other side of the torque converter housing.



8. Remove retaining ring (11) that holds bearing (12) on gear (10) .

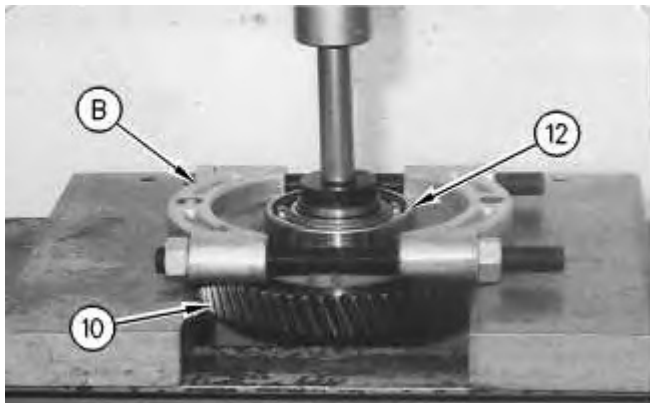


Illustration 7

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9. Use Tooling (B) and a press in order to push gear (10) out of bearing (12) .

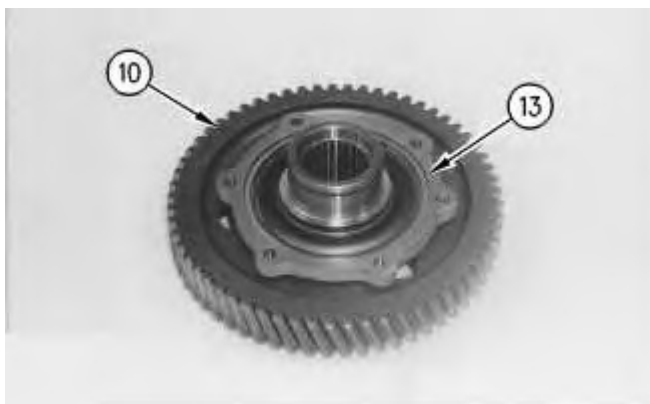


Illustration 8

g00495765

10. Remove bearing retainer (13) from gear (10) .
-



Illustration 9

g00496645

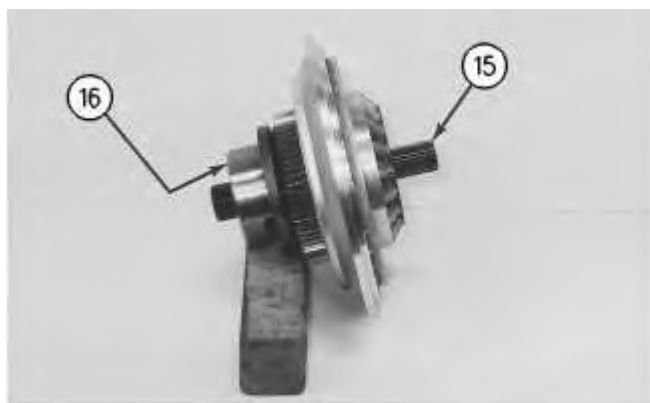
11. Remove O-ring seal (42) .



Illustration 10

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12. Fasten Tooling (A) and a hoist to the carrier assembly, as shown. Remove the 18 bolts from the impeller. Use two M10 X 1.50 forcing screws (14) in order to loosen the impeller from the housing. Remove the impeller and the carrier assembly from the housing. The weight of the unit is 36 kg (80 lb).



13. Remove retaining ring (16) from the carrier assembly. Remove the bearing and shaft (15) .

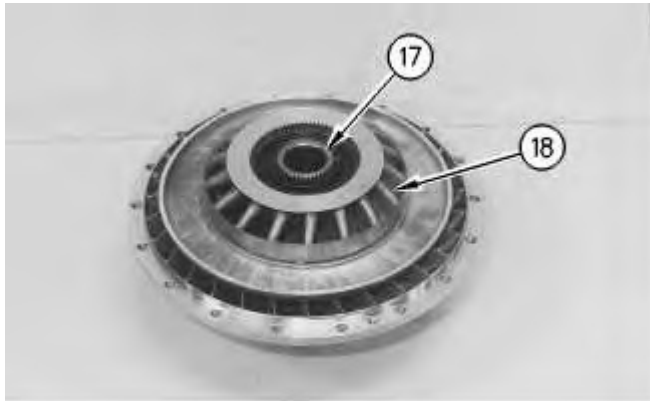


Illustration 12

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14. Remove retaining ring (17) from the end of the carrier assembly. Remove stator (18) .

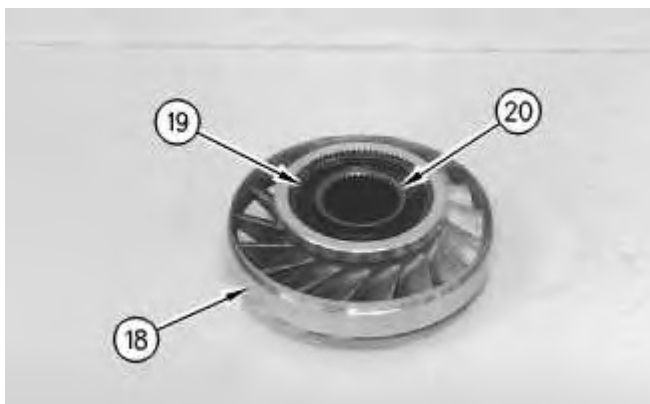


Illustration 13

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Note: Check the condition of hub (20). Refer to Guideline For Reusable Parts, SEBF8087.

15. Remove retaining rings (19) from each side of stator (18) .
 16. Heat the stator to a temperature of 121°C (250°F). Maintain the temperature for one hour. Remove splined hub (20) from stator (18) .
-

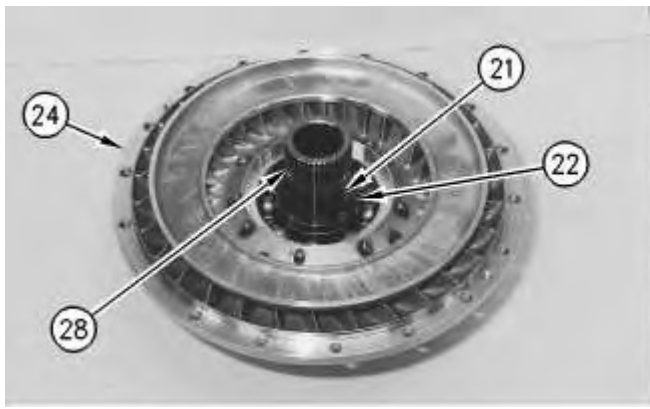


Illustration 14

g00796414

17. Use Tooling (C) in order to remove retaining ring (21). Remove spacer (22). Remove torque converter impeller (24) and carrier assembly (28) .

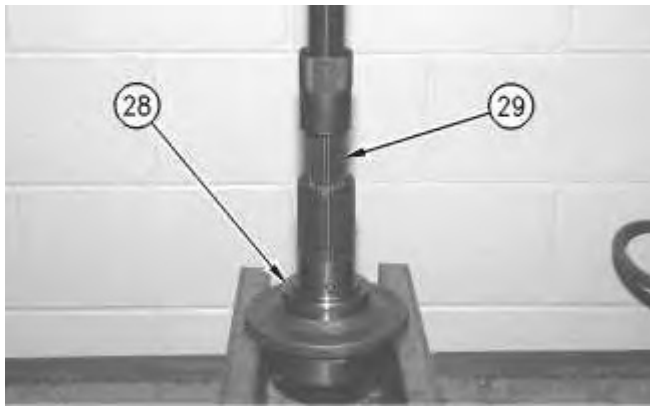
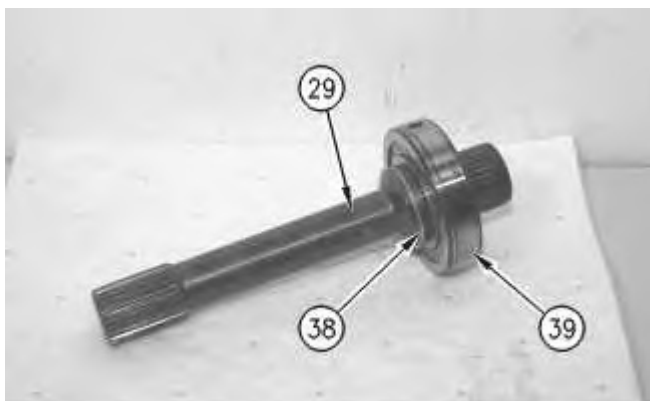


Illustration 15

g00796419

18. Use Tooling (C) in order to remove the retaining ring from the carrier assembly. Use a press in order to remove output shaft (29) from carrier assembly (28) .

Note: Use steps 19 and 20 for the removal of a split bearing assembly (newer models).



19. Remove piston ring (38) from output shaft (29) .
20. Remove bearing (39) and the plate. Use a press to remove the race from output shaft (29) .

Note: Use step 21 for the removal of a single bearing assembly (older models).

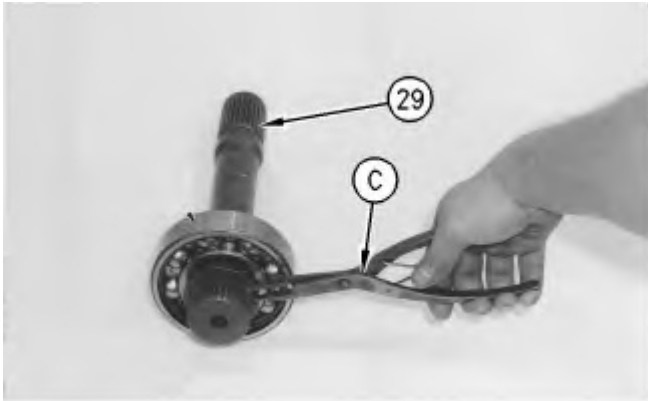


Illustration 17

21. Use Tooling (C) in order to remove the retaining ring from output shaft (29) .

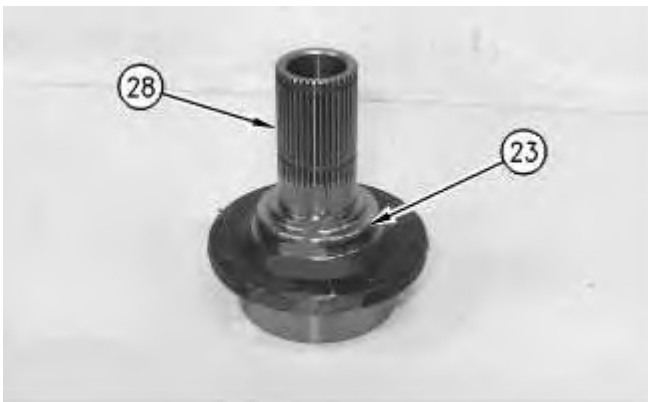


Illustration 18

22. Remove seal ring (23) from carrier assembly (28) .
 23. If necessary, remove the locating dowel at the base of the shaft on carrier assembly (28) .
-

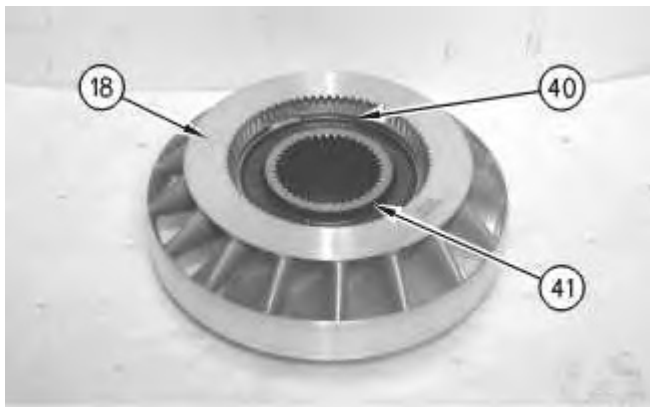


Illustration 19

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Note: To prevent possible damage, do not remove splined adapter (41) from stator (18) unless it is necessary.

24. Remove retaining ring (40) from both sides of stator (18).

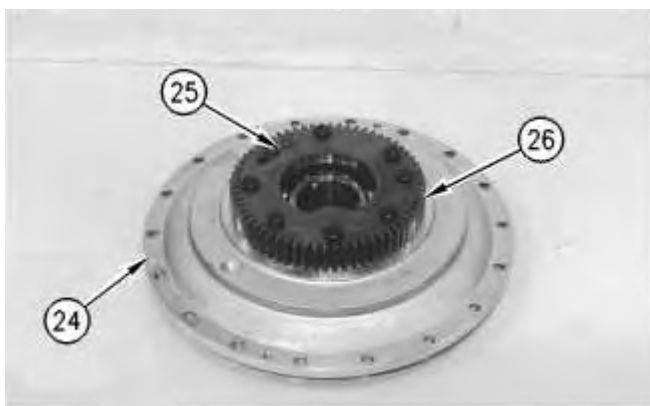
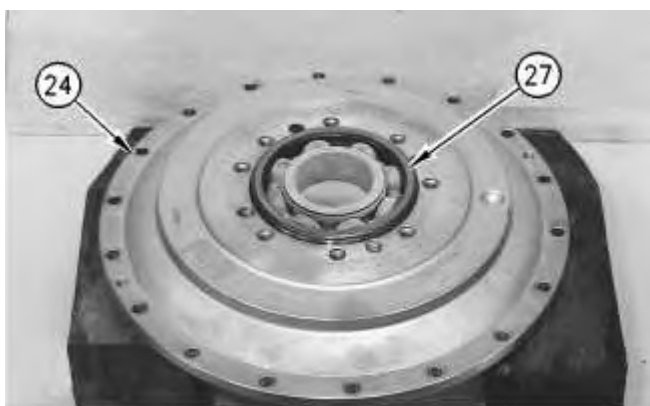


Illustration 20

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25. Remove bolts (25) and gear (26) from impeller (24) .



26. Remove bearing (27) from impeller (24) .

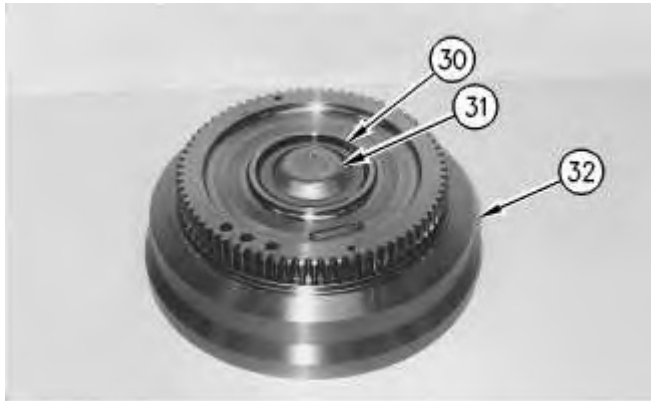


Illustration 22

27. Remove retaining ring (30) and cap (31) from housing (32) .



Illustration 23

28. Use Tooling (C) in order to remove retaining ring (33) from the turbine.

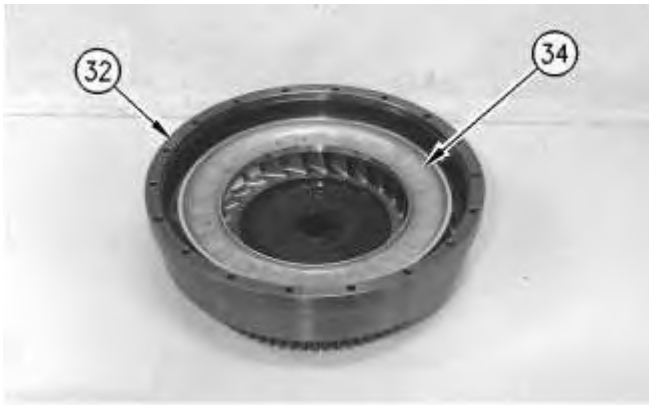


Illustration 24

g00496515

29. Remove turbine (34) from housing (32) .

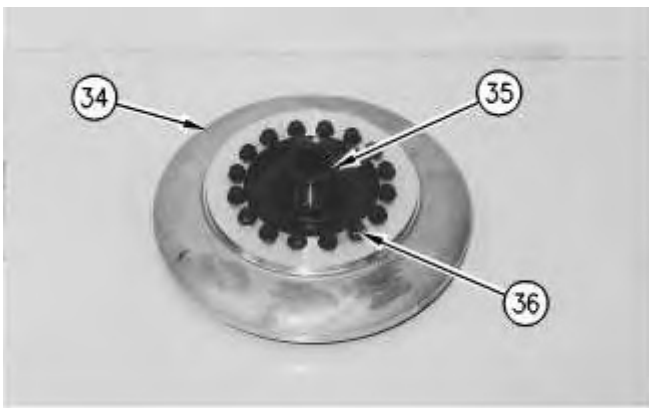


Illustration 25

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30. Remove bolts (36) and hub (35) from turbine (34) .

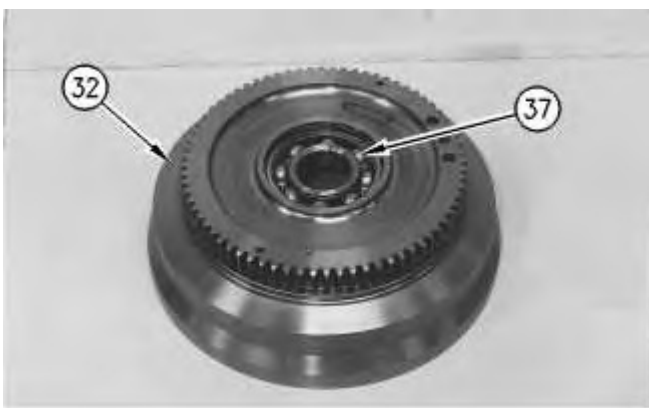


Illustration 26

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31. Remove bearing (37) from housing (32) .

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Disassembly and Assembly 966F Series II Wheel Loader Power Train

Media Number -SEN5923-05

Publication Date -01/10/2004

Date Updated -07/10/2004

i01592948

Torque Converter - Assemble

SMCS - 3101-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-2156	Link Bracket	2
B	1P-0510	Driver	1
C	2P-8312	Pliers	1

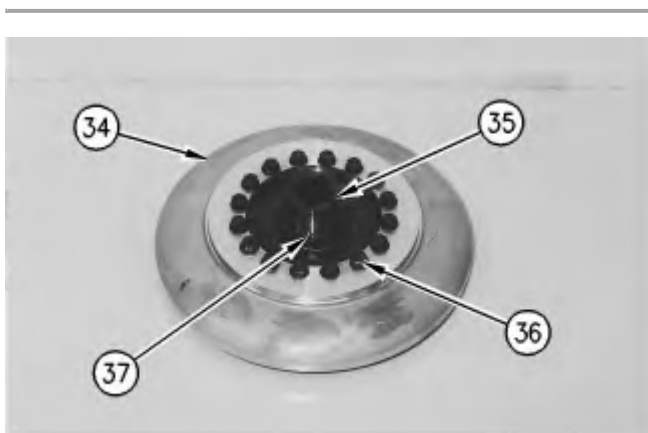


Illustration 1

g00796251

1. Install locating dowel (37) in turbine hub assembly (35) .

2. Install turbine hub assembly (34) to converter turbine (34). Install sixteen bolts (36) and the washers. The torque for bolts (36) is 60 ± 7 N·m (44 ± 5 lb ft).



Illustration 2

g00796189

3. Raise converter turbine (34) on a bench, and install the rotating housing (32) over converter turbine (34), as shown.

Note: Be careful not to pinch your fingers when you lower rotating housing (32) over converter turbine (34) .



Illustration 3

g00458110

Note: The notch on bearing (38) must be aligned with locating dowel (37) on turbine hub assembly (35) .

4. Install bearing (38) .
-



Illustration 4

g00496512

5. Install the bearing spacer.
6. Use Tooling (C) in order to install retaining ring (33) on the turbine hub assembly. Retaining ring (33) must be securely seated in the groove.

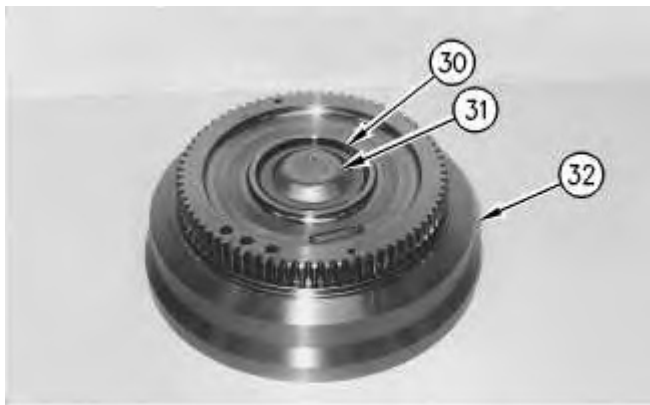
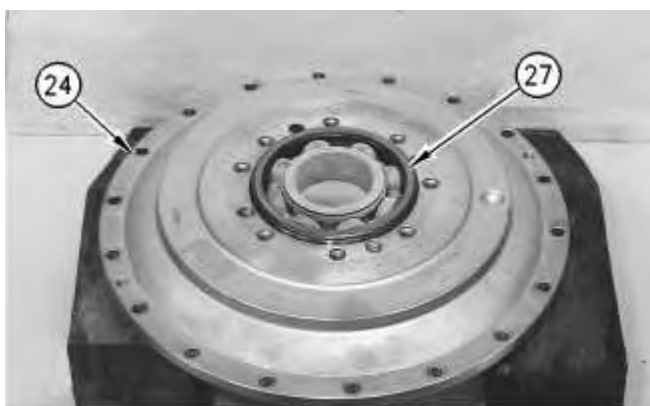


Illustration 5

g00496510

7. Install the O-ring seal, end cover (31), and retaining ring (30) to housing (32) .



- Lower the temperature of bearing (27). Install the bearing in impeller (24) .

Note: The notch in bearing (29) must face upward, as shown.



Illustration 7

- Install drive gear (26) and eight bolts (25) to impeller (24). Tighten the bolts to a torque of $105 \pm 15 \text{ N}\cdot\text{m}$ ($77 \pm 11 \text{ lb ft}$).

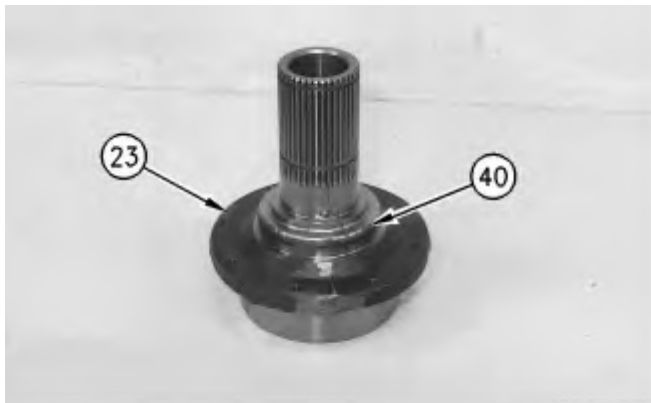


Illustration 8

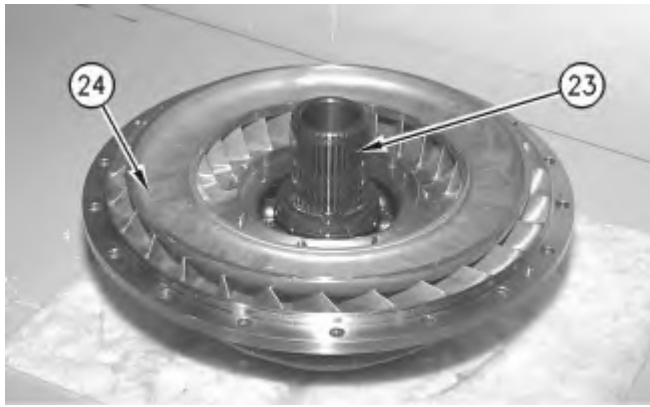


Illustration 9

g00796190

10. Install seal ring (40) on carrier assembly (23). Put clean oil on the seal ring.

Note: The notch on bearing (27) must be aligned with the locating dowel on carrier assembly (23) .

11. Install torque converter impeller (24) on carrier assembly (23) .

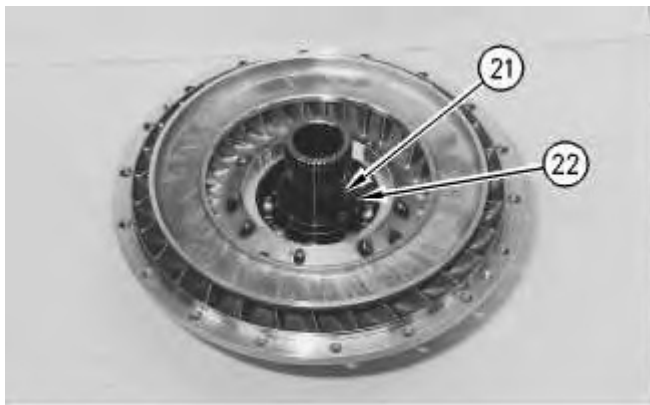


Illustration 10

g00495999

12. Install spacer (22). Use Tooling (C) to install retaining ring (21) .
-

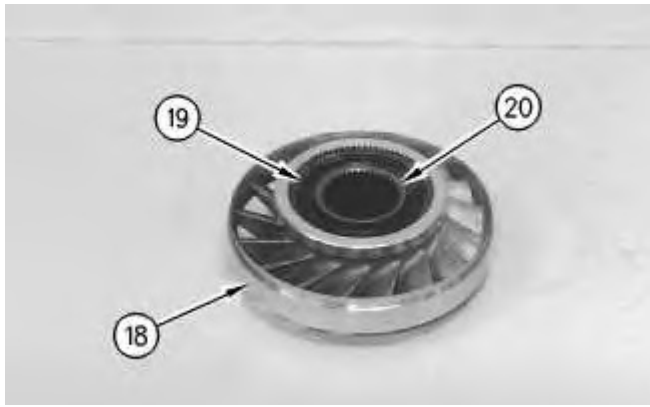


Illustration 11

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13. Install one retaining ring (19) and heat stator (18) to a temperature of 121°C (250°F). Maintain the temperature for one hour. Install splined hub (20) in stator (18) before the stator is allowed to cool. Install second retaining ring (19) to the other side of stator (18) in order to hold the unit together.

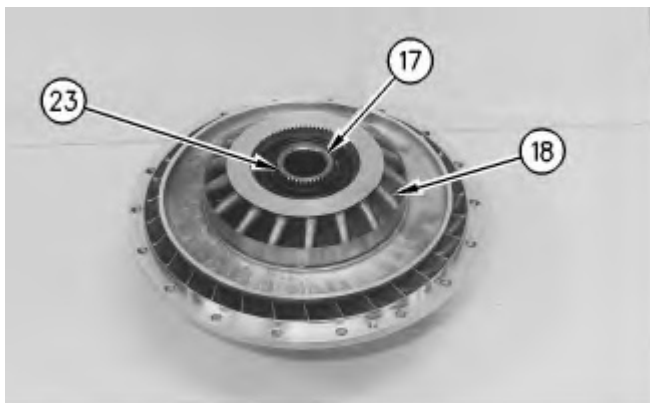


Illustration 12

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14. Install stator (18) on the impeller.
 15. Install retaining ring (17) on the end of the carrier assembly (23) in order to hold the stator.
-



Illustration 13

g00496607

16. Install seal ring (29) on output shaft (15) .

Note: Use steps 17 through 19 for the installation of a split bearing assembly (newer models).

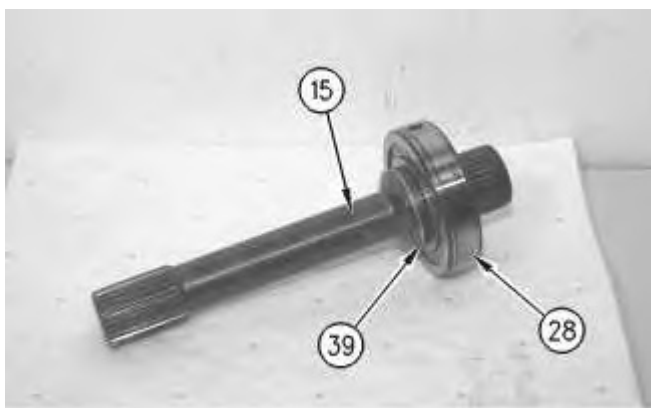


Illustration 14

g00796206

17. Install piston ring (39) on output shaft (15) .
18. Use a press in order to install the bearing inner race of bearing (28) with the flange side downward on output shaft (15) .
19. Install bearing (28) on output shaft (15), and install output shaft (15) in carrier assembly (23) .

Note: Use steps 20 and 21 for the installation of a single bearing assembly (older models).

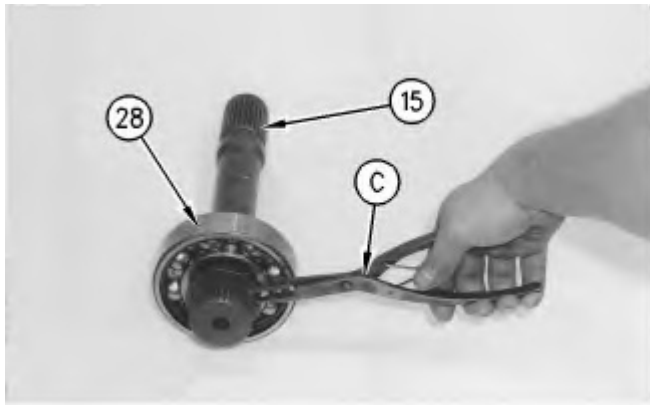


Illustration 15

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20. Install bearing (28) on output shaft (15) .
21. Use Tooling (C) in order to install the retaining ring on output shaft (15) .

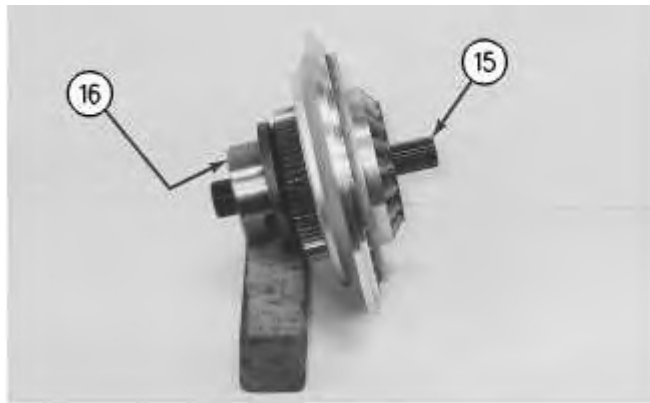


Illustration 16

g00495888

22. Install output shaft (15) and retaining ring (16) to the carrier assembly.

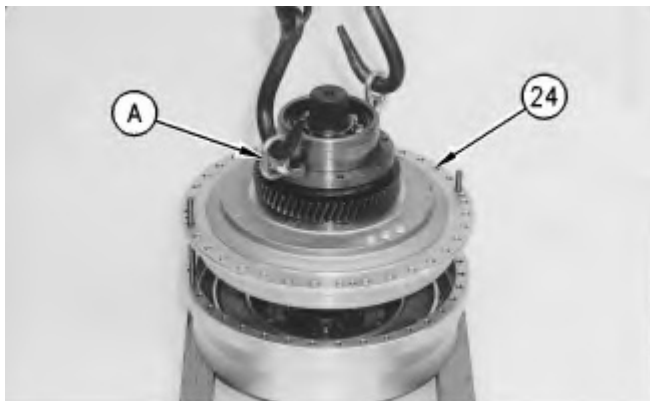


Illustration 17

g00496619

23. Install two M10 guide bolts in the housing. Fasten Tooling (A) and a hoist to the impeller (24), as shown. Position the impeller (24) on the housing.
24. Install the 18 bolts and the washers that hold the unit together. Tighten the bolts to a torque of $60 \pm 7 \text{ N}\cdot\text{m}$ ($44 \pm 5 \text{ lb ft}$).



Illustration 18

g00496645

25. Install ring (42). Put clean oil on the ring.

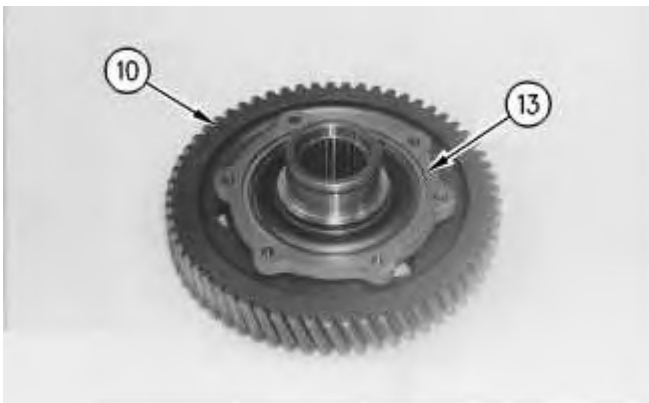


Illustration 19

g00495765

26. Install retainer (13) on gear (10) .
-



Illustration 20

g00496649

27. Heat bearing (12) to a maximum temperature of 135°C (275°F). Install bearing (12) on gear (10) .

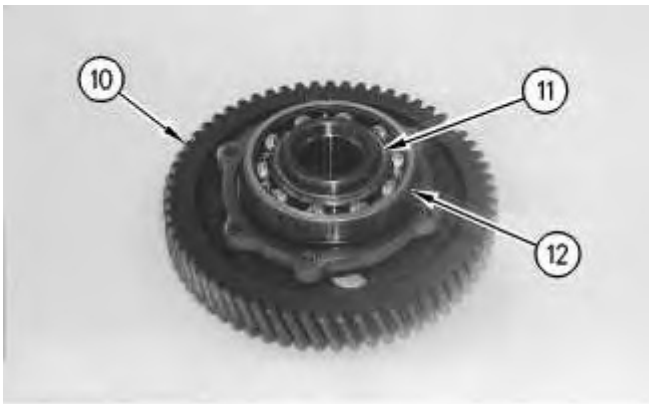


Illustration 21

g00495693

28. Install retaining ring (11) that holds bearing (12) on gear (10) .



Illustration 22

g00495692

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