



Service Repair Manual

Models

938K WHEEL LOADER

[Previous Screen](#)

Product: WHEEL LOADER

Model: 938K WHEEL LOADER HFW

Configuration: 938K Small Wheel Loader HFW00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly 924K, 930K and 938K Wheel Loaders Power Train

Media Number -UENR0281-03

Publication Date -01/04/2017

Date Updated -24/04/2017

i05142776

Transmission

SMCS - 3030

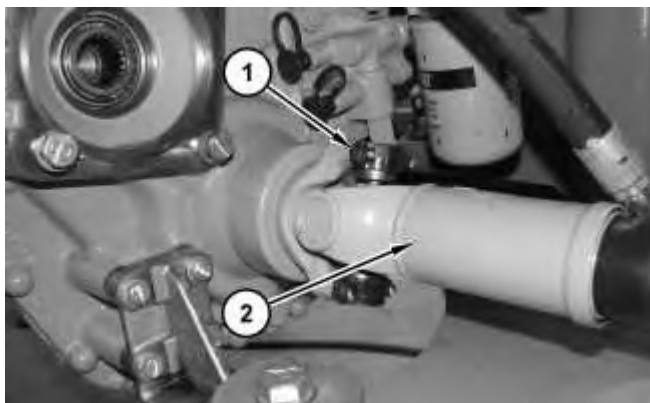
Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7505	Hydraulic Jack	1
B	138-7575	Link Bracket	3
	1U-9200	Lever Puller Hoist Gp	1

Start By:

- A. Remove the front hydrostatic piston motor and the rear hydrostatic piston motor.



1. Remove bolts (1) and the caps in order to disconnect drive shaft (2) from the yoke. Discard bolts (1) .

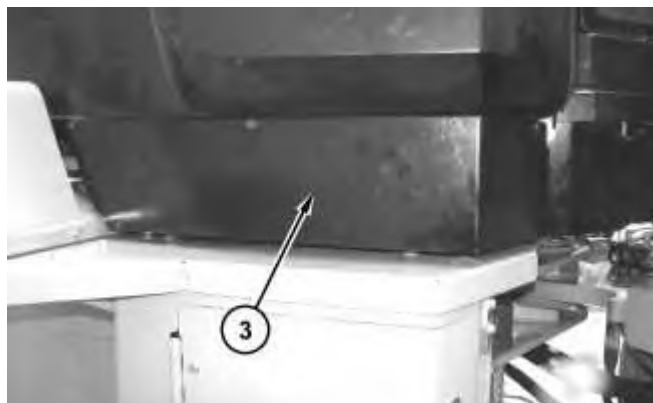


Illustration 2

2. Remove cover (3) .



Illustration 3

3. Disconnect harness assemblies (4) and (5) . Reposition harness assemblies (4) and (5) out of the way.
-

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Illustration 4

g02802564

4. Disconnect harness assembly (6) and reposition harness assembly (6) out of the way.

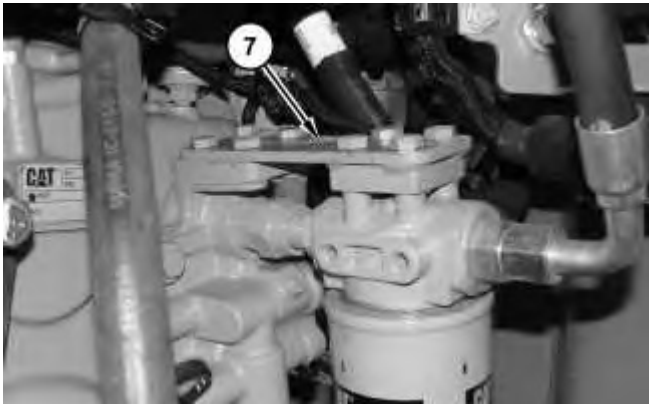


Illustration 5

g02802576

5. Remove bracket (7) .

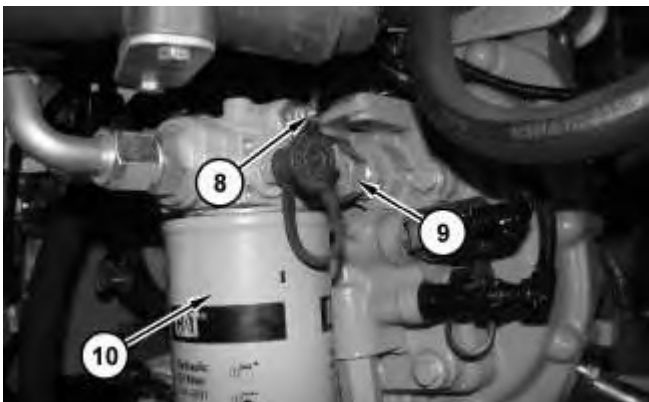


Illustration 6

g02802636

6. Disconnect harness assembly (8) . Disconnect tube assembly (9) . Reposition filter base (10) out of the way.

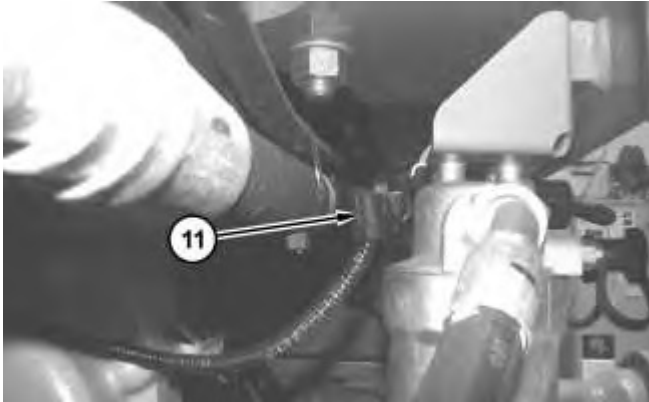


Illustration 7

g02802997

7. Disconnect harness assembly (11) .



Illustration 8

g02803036

8. Disconnect hose assembly (12) .
-

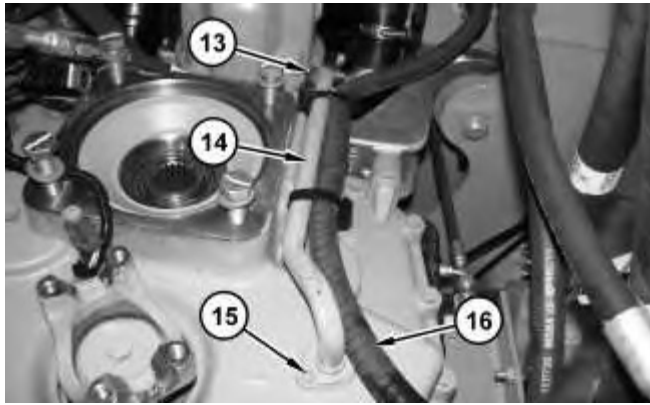


Illustration 9

g02803097

9. Remove clamp (13) and bolts (15) . Reposition tube assembly (14) and hose assembly (16) out of the way.

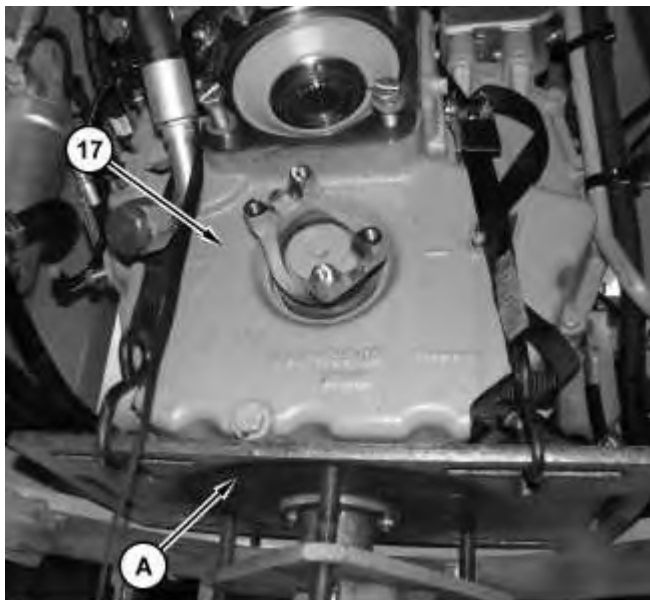


Illustration 10

g02803276

10. Position Tooling (A) under transmission (17) . The weight of transmission (17) is approximately 145 kg (320 lb). Use suitable straps in order to secure transmission (17) to Tooling (A) .

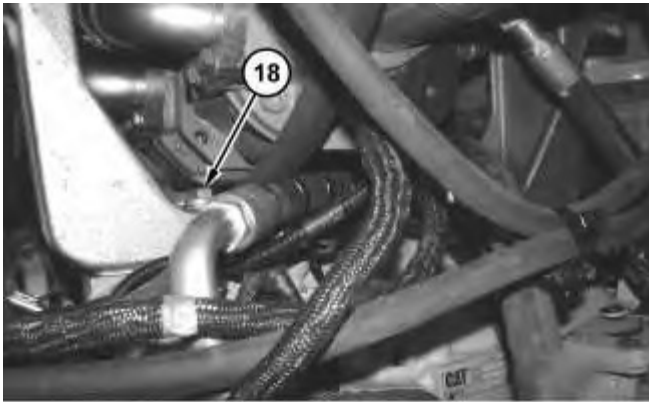


Illustration 11

g02803363

11. Remove bolts (18) .



Illustration 12

g02803536

12. Remove bolts (19) .

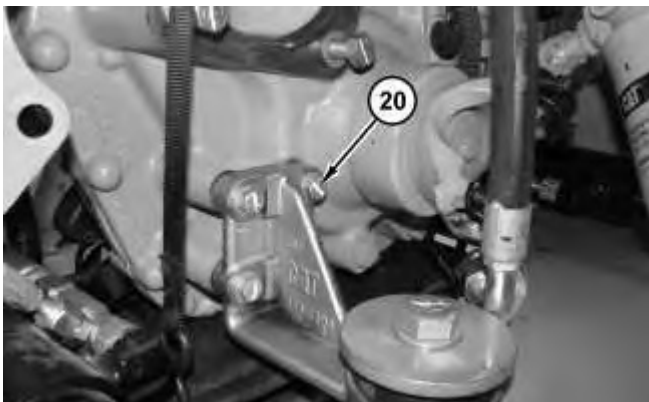


Illustration 13

g02803541

13. Remove bolts (20) .

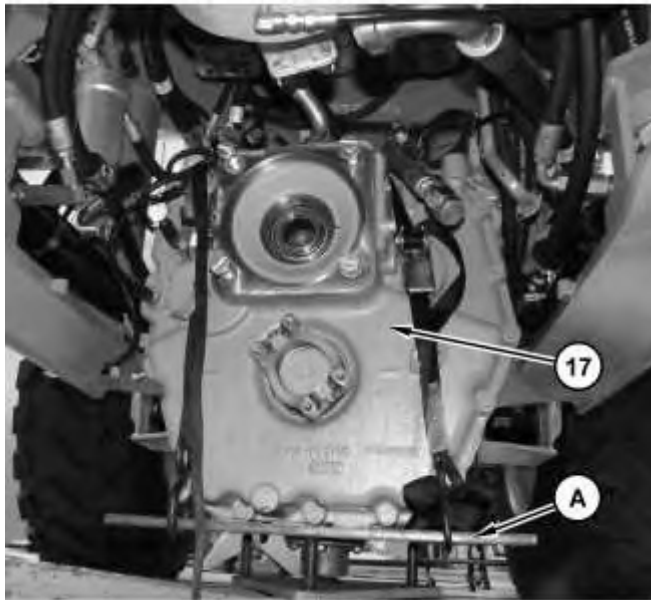


Illustration 14

g02803577

14. Use Tooling (A) in order to lower transmission (17) .

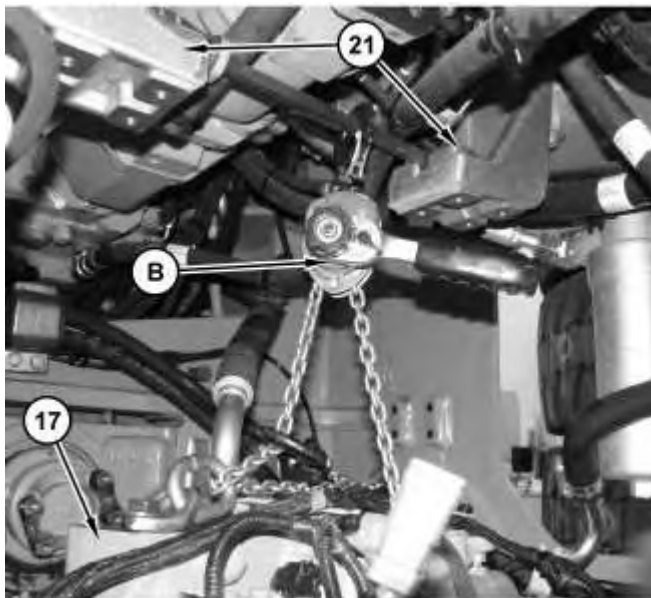


Illustration 15

g02803580

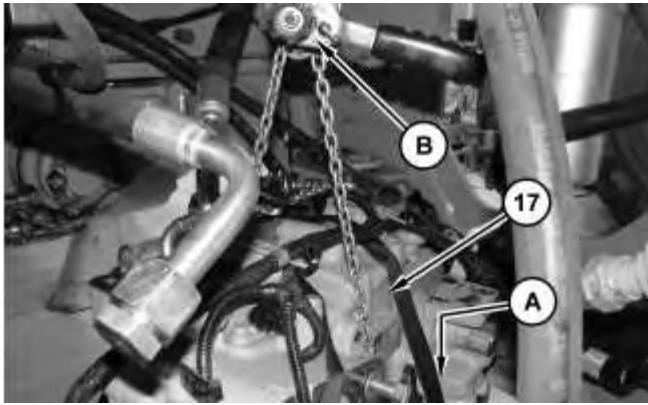


Illustration 16

g02803606

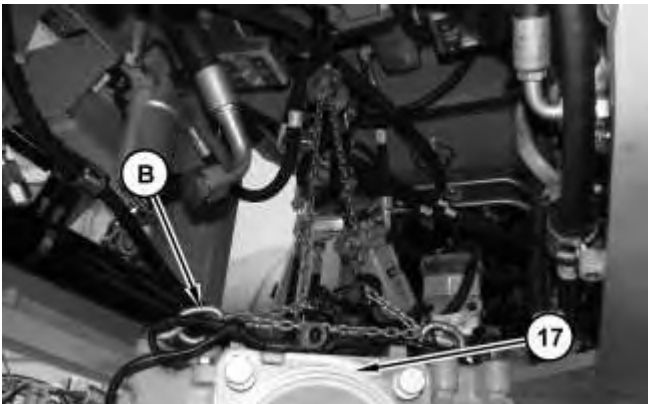


Illustration 17

g02803617

15. Position a suitable bar across transmission mounts (21) . Attach Tooling (B) to the suitable bar and transmission (17) . The weight of transmission (17) is approximately 145 kg (320 lb).
16. Disconnect the straps that secure transmission (17) to Tooling (A) . Use Tooling (B) in order to raise transmission (17) off Tooling (A) . Remove Tooling (A) .
17. Use Tooling (A) in order to lower transmission (17) to the ground.

Installation Procedure

1. Install transmission (17) in the reverse order of removal.
-

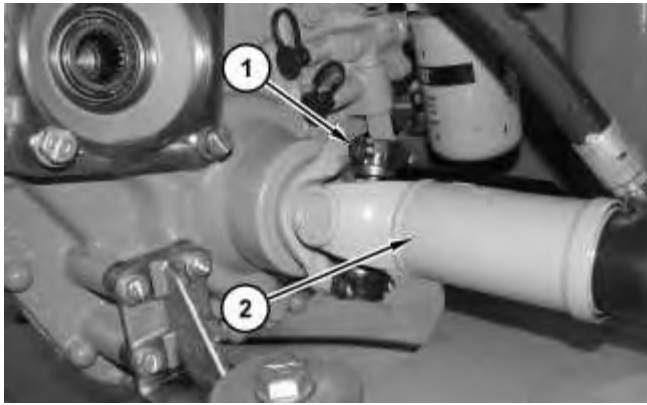


Illustration 18

g02802456

- a. Install new bolts (1) and tighten until snug. Tighten bolts (1) to a torque of 71 ± 10 N·m (52 ± 7 lb ft) using an X pattern.

Disassembly Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-9200	Lever Puller Hoist Gp	1
	138-7575	Link Bracket	3
B	308-3470	Jack Stand	3
C	138-7576	Link Bracket	2
D	6V-3009	Crossbar	1
	6V-4832	Forcing Screw	1
	8H-0663	Bearing Puller Gp	1
	126-7181	Sliding Plate	4
	126-7177	Puller Leg	2
	1P-0510	Driver Gp	1
E	1P-0520	Driver Gp	1
F	4C-3652	Compressor Assembly	1

Start By:

- A. Remove the transmission.

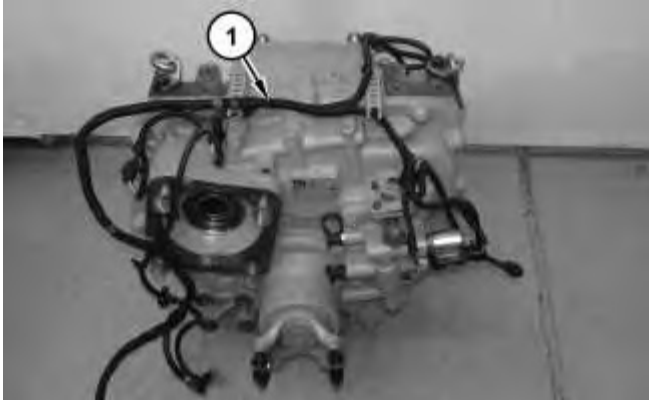


Illustration 19

g02798341

1. Mark the clip locations and connections. Remove harness assembly (1) .

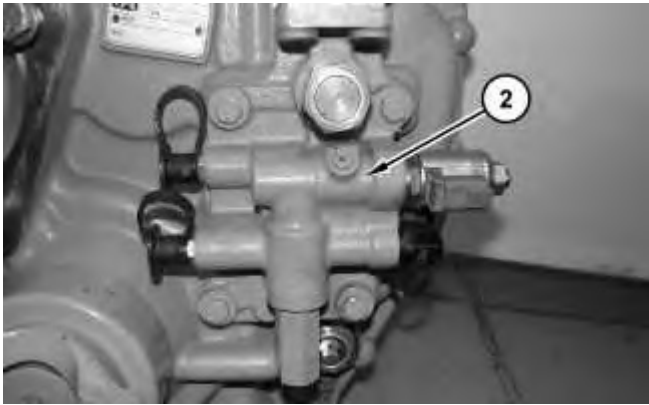


Illustration 20

g02798420

2. Remove valve assembly (2) .

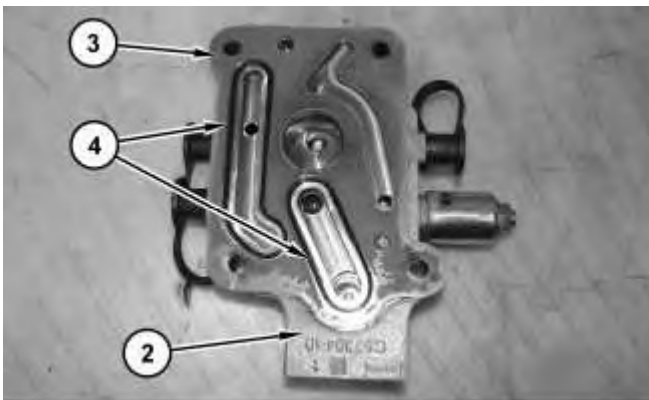


Illustration 21

g02798422

3. Remove gasket (3) from valve assembly (2) . Remove O-ring seals (4) .

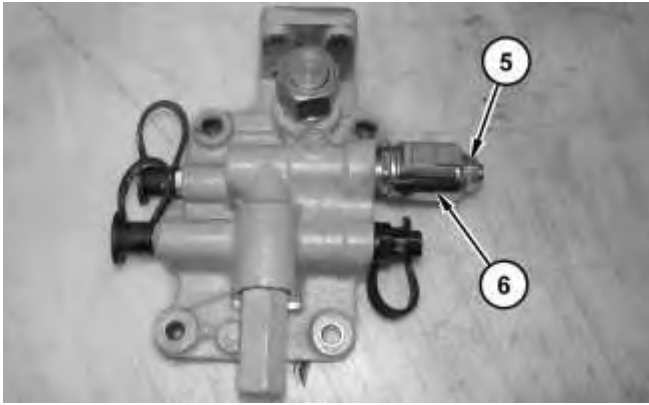


Illustration 22

g02798427

4. Remove nut (5) and remove coil (6) .

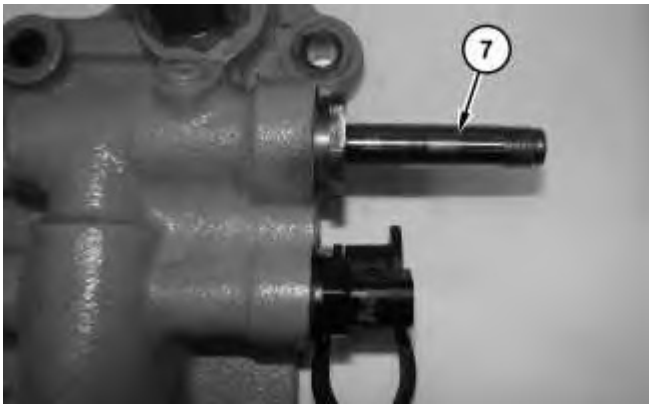


Illustration 23

g02798429

5. Remove valve (7) .



6. Remove O-ring seals (8) from valve (7) .

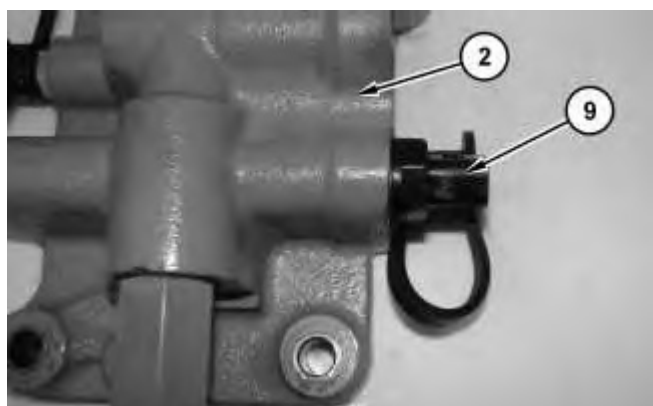


Illustration 25

7. Remove temperature sensor (9) from valve assembly (2) .

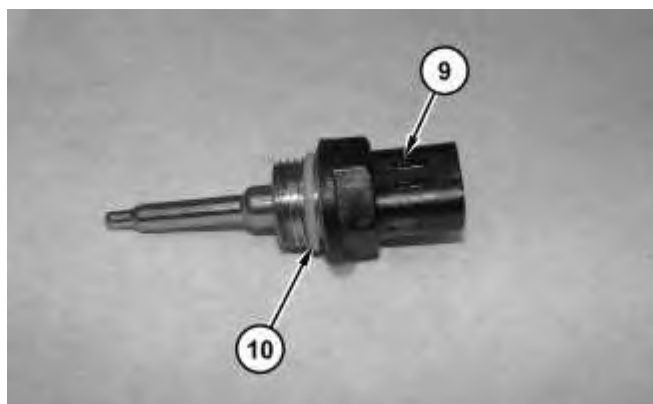


Illustration 26

8. Remove O-ring seal (10) from temperature sensor (9) .
-

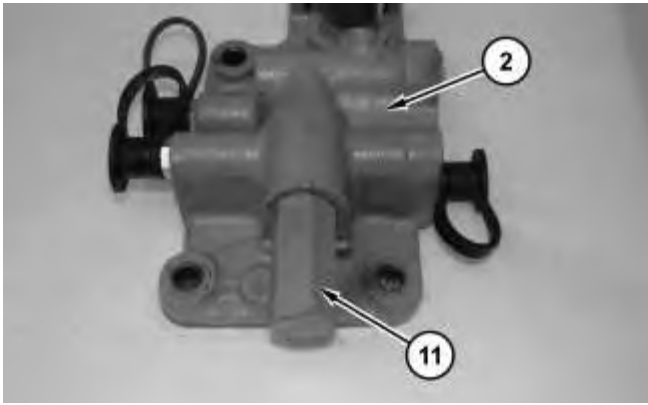


Illustration 27

g02798448

9. Remove relief valve (11) from valve assembly (2) .

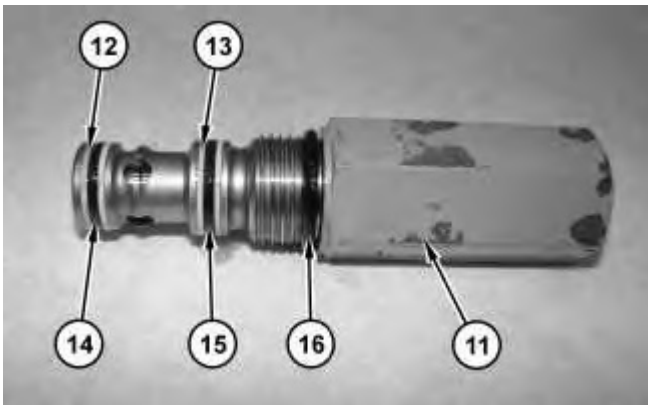


Illustration 28

g02798449

10. Remove backup rings (12) and O-ring seal (14) from relief valve (11) . Remove backup rings (13) and O-ring seal (15) . Remove O-ring seal (16) .

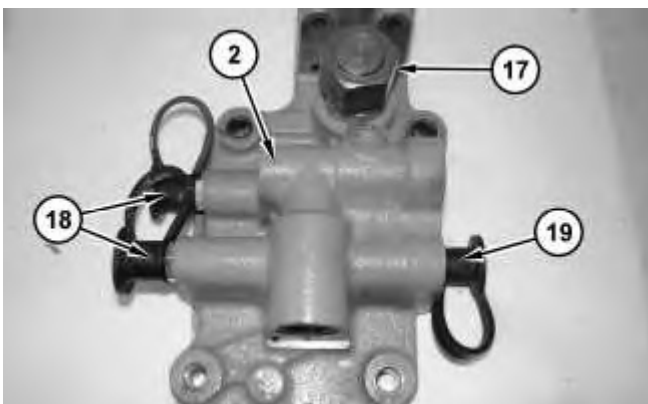


Illustration 29

g02798452

11. Remove fitting (17) and the O-ring seal from valve assembly (2) . Remove the caps, fittings (18) , and the O-ring seals. Remove the cap, fitting (19) , and the O-ring seal.

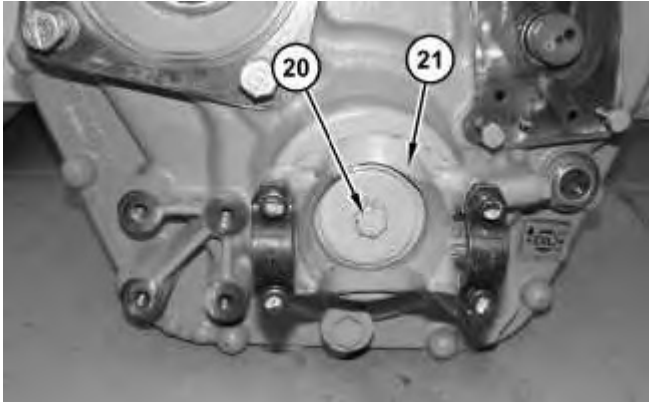


Illustration 30

g02798457

12. Remove bolt (20) and yoke (21) .



Illustration 31

g02798458

13. Remove spacer (22) .
-

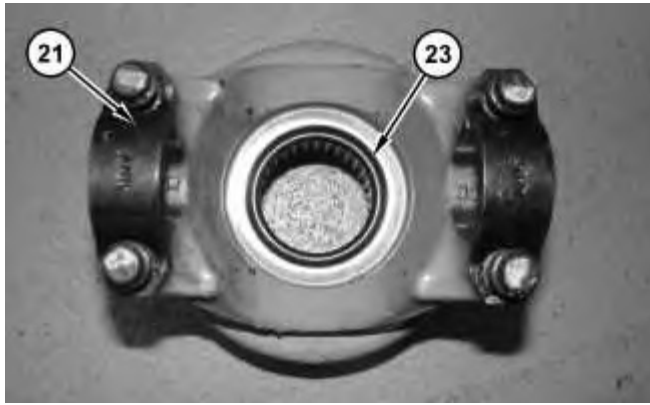


Illustration 32

g02798461

14. Remove O-ring seal (23) from yoke (21) .

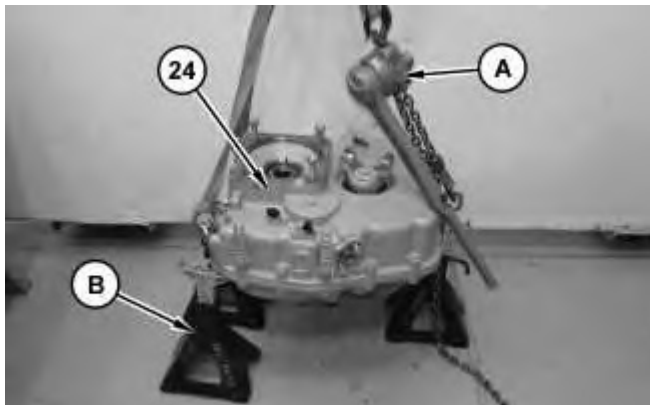


Illustration 33

g02798465

15. Attach Tooling (A) and a suitable lifting device to transmission (24) . The weight of transmission (24) is approximately 122 kg (270 lb). Use Tooling (A) and the suitable lifting device in order to position transmission (24) onto Tooling (B) as shown on Illustration 33.

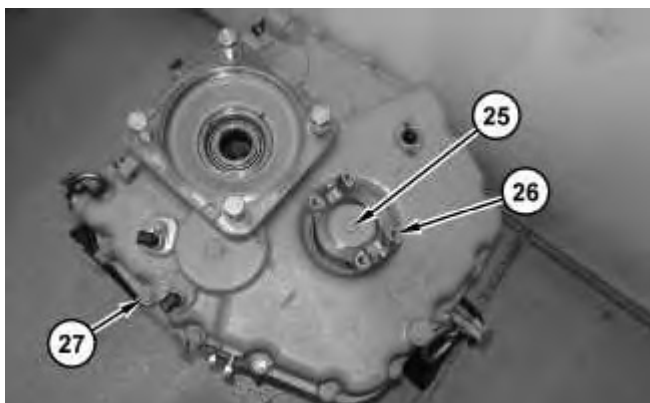


Illustration 34

g02798473

16. Remove bolt (25) and remove yoke (26) . Remove bolts (27) .

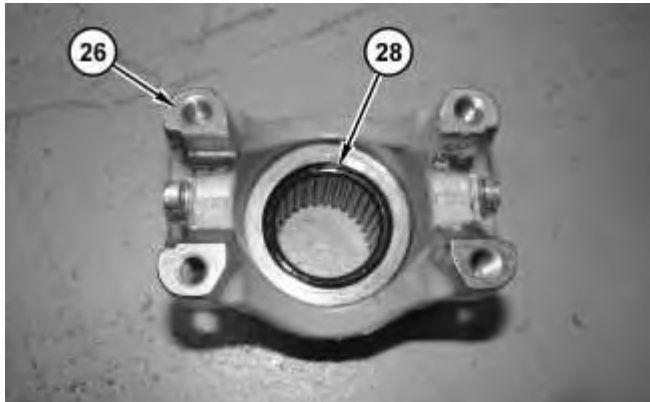


Illustration 35

g02798479

17. Remove O-ring seal (28) from yoke (26) .

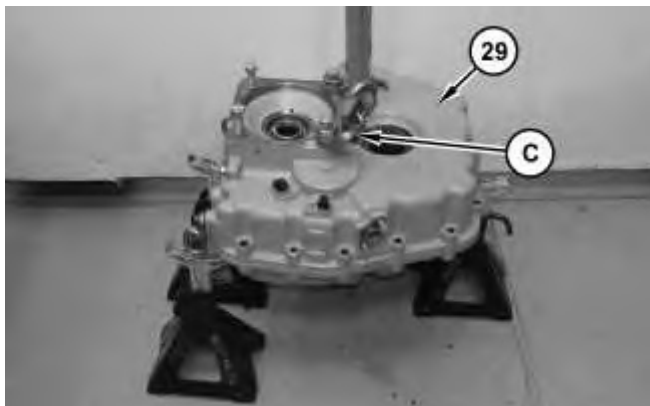


Illustration 36

g02798481

18. Attach Tooling (C) and a suitable lifting device to housing (29) . The weight of housing (29) is approximately 45 kg (100 lb). Use Tooling (C) and the suitable lifting device in order to remove housing (29) .

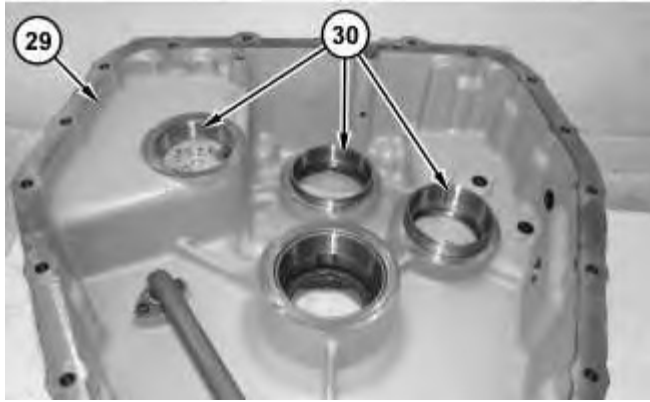


Illustration 37

g02798485

19. Remove bearing cups (30) from housing (29) .

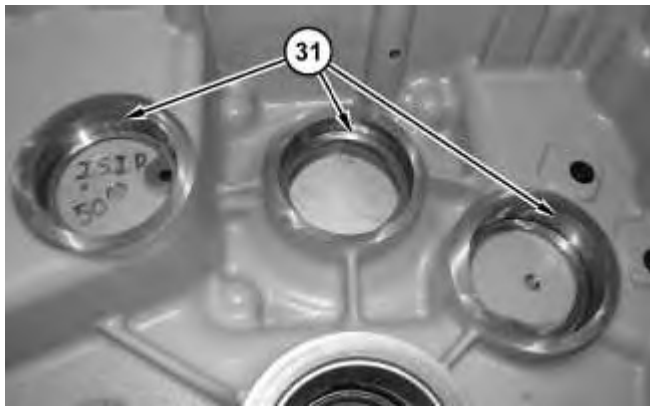


Illustration 38

g02798487

20. Remove shims (31) .

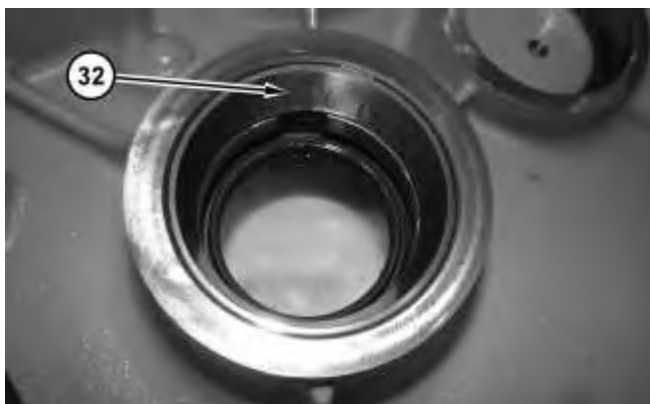


Illustration 39

g02798492

21. Remove bearing cup (32) .



Illustration 40

g02798494

22. Remove shims (33) .

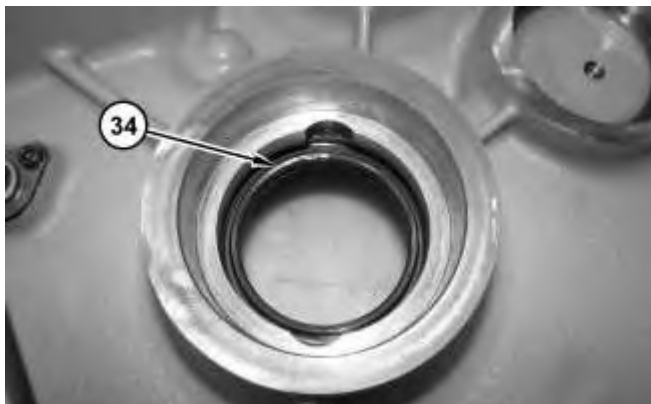
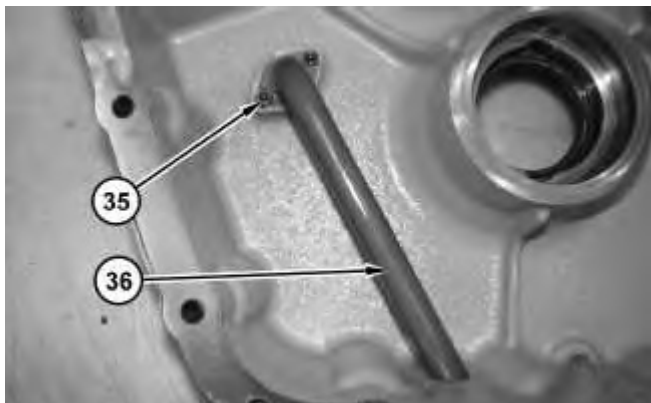


Illustration 41

g02798495

23. Remove seal (34) .



24. Remove bolts (35) and tube assembly (36) .

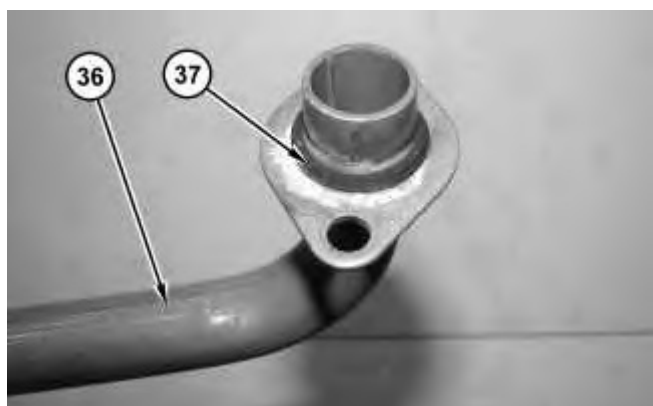


Illustration 43

25. Remove O-ring seal (37) from tube assembly (36) .



Illustration 44

26. Remove drain plug (38) and the O-ring seal from housing (29) .
-

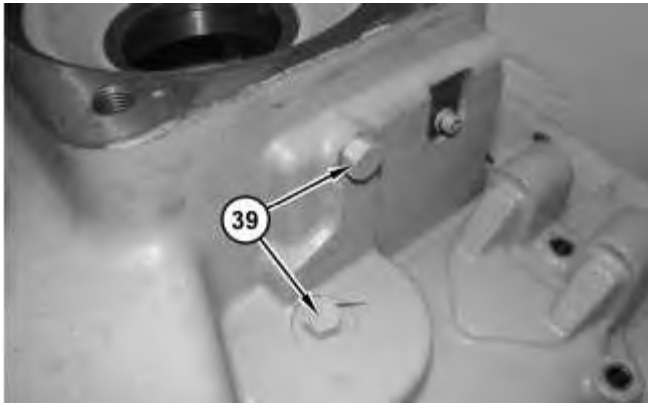


Illustration 45

g02798503

27. Remove plug (39) and the O-ring seals.

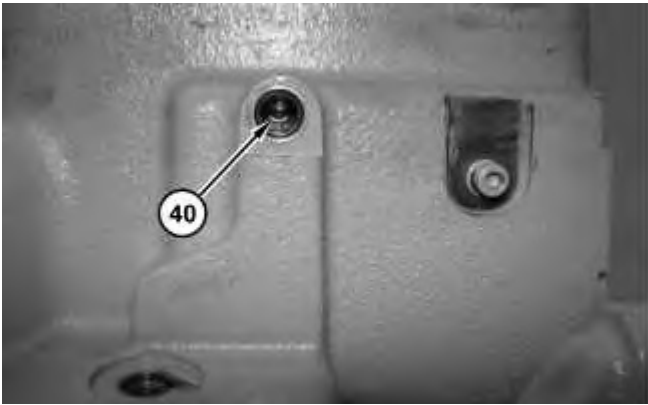


Illustration 46

g02798506

28. Remove orifice (40) .

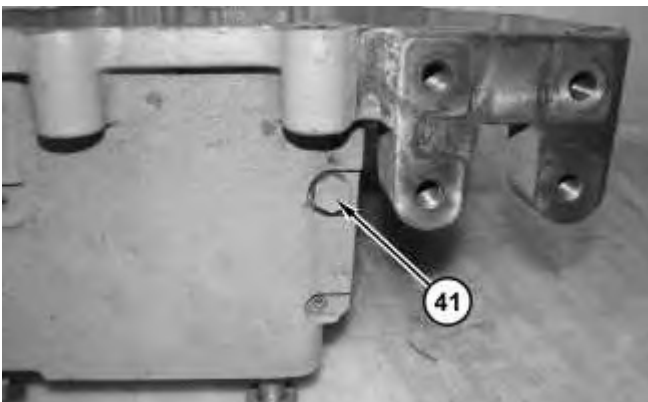


Illustration 47

g02798507

29. Remove plug (41) and the O-ring seal.

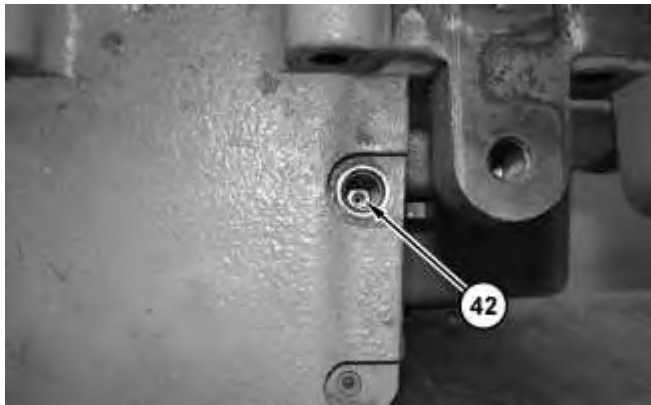


Illustration 48

g02798509

30. Remove orifice (42) .

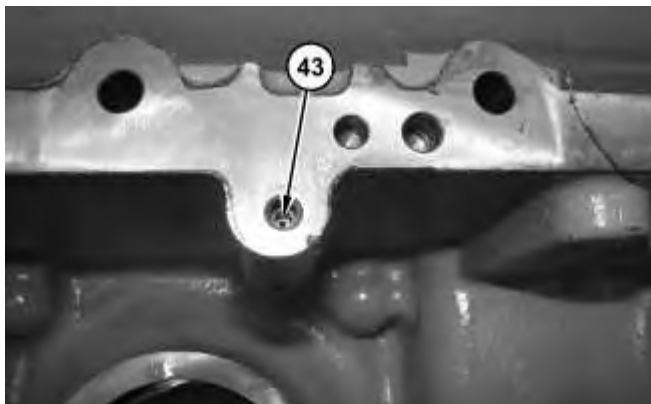
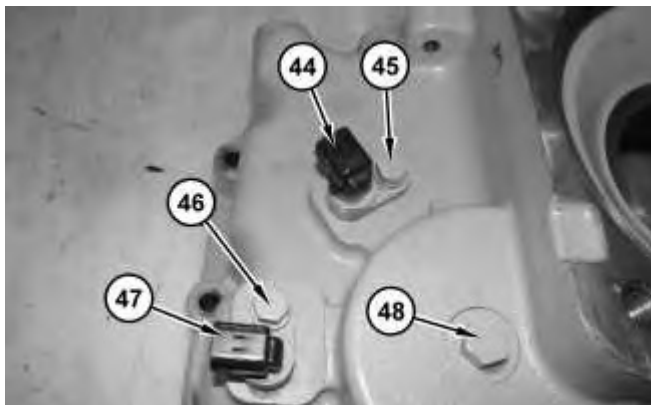


Illustration 49

g02798510

31. Remove orifice (43) .



32. Remove bolt (45) . Remove sensor (44) and the O-ring seal.
33. Remove bolt (46) . Remove sensor (47) and the O-ring seal.
34. Remove plug (48) and the O-ring seal.

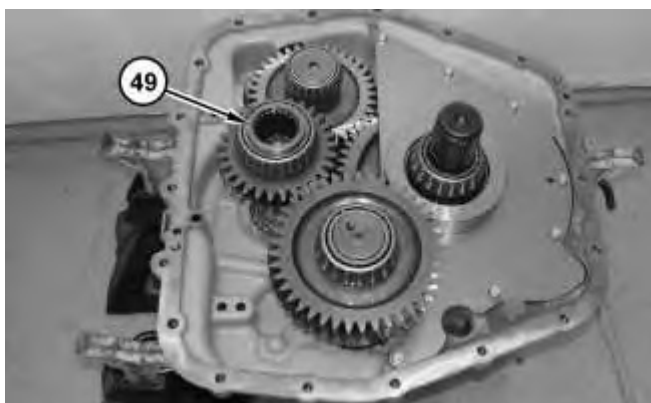


Illustration 51

35. Remove shaft assembly (49) .

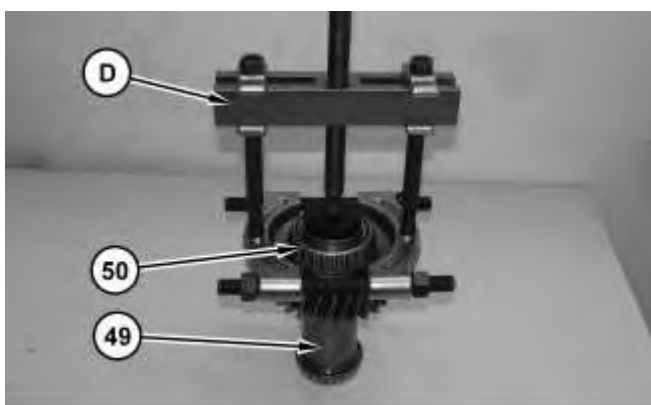


Illustration 52

36. Use Tooling (D) in order to remove bearing cone (50) from shaft assembly (49) .
-

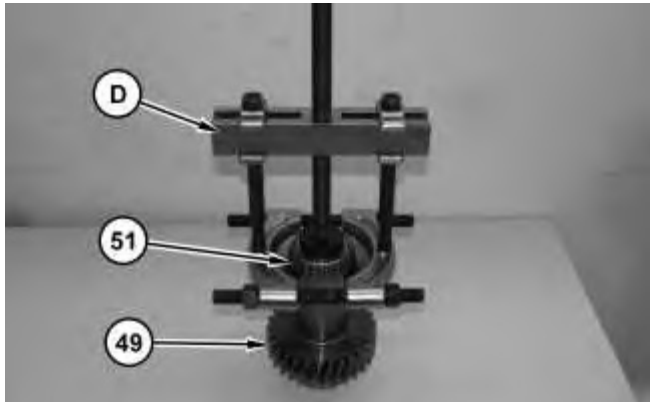


Illustration 53

g02798517

37. Use Tooling (D) in order to remove bearing cone (51) from shaft assembly (49) .

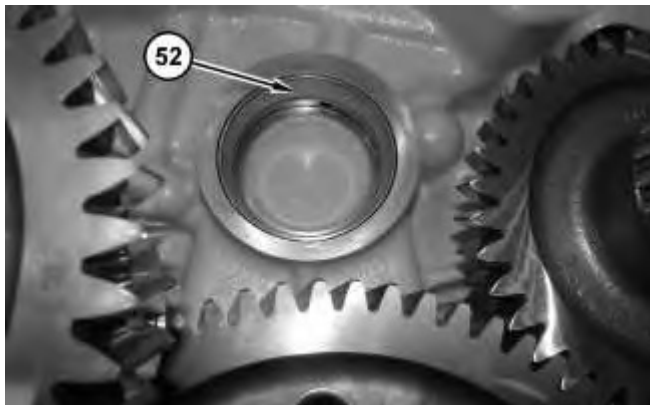


Illustration 54

g02798519

38. Remove bearing cup (52) .

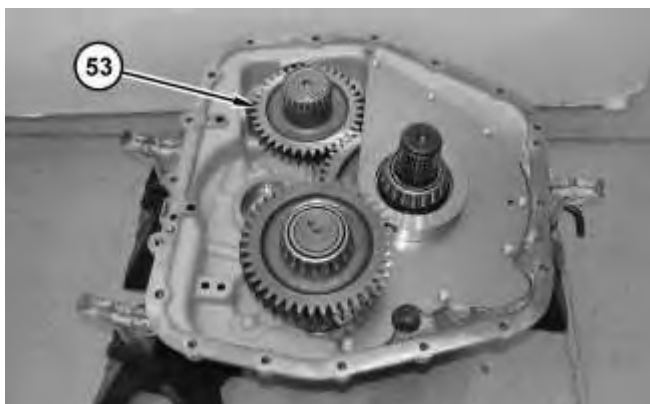


Illustration 55

g02798520

39. Remove shaft assembly (53) .

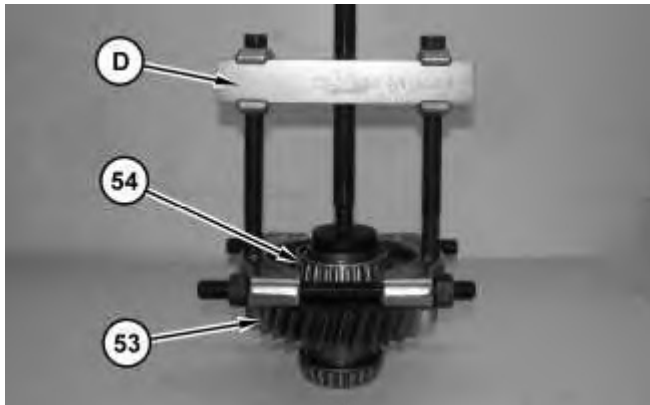


Illustration 56

g02798521

40. Use Tooling (D) in order to remove bearing cone (54) from shaft assembly (53) .

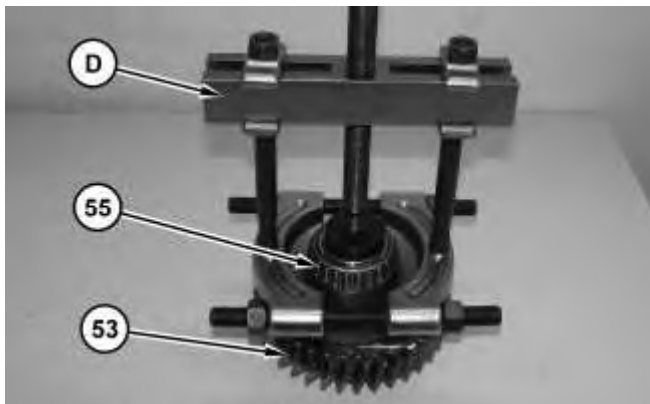
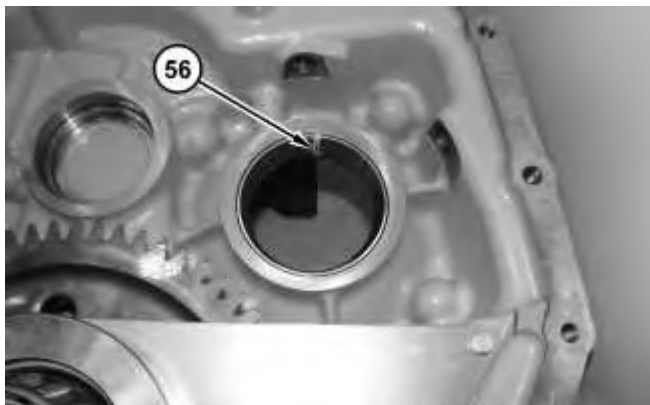


Illustration 57

g02798522

41. Use Tooling (D) in order to remove bearing cone (55) from shaft assembly (53) .



42. Remove bearing cup (56) .



Illustration 59

43. Remove bolts (57) and remove plate (58) .

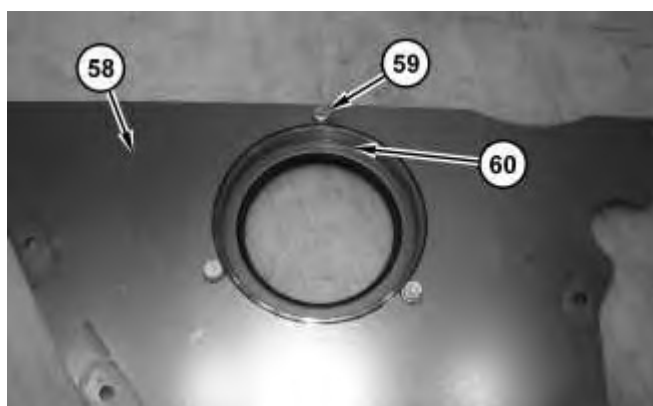


Illustration 60

44. Remove bolts (59) from plate (58) . Remove seal assembly (60) .

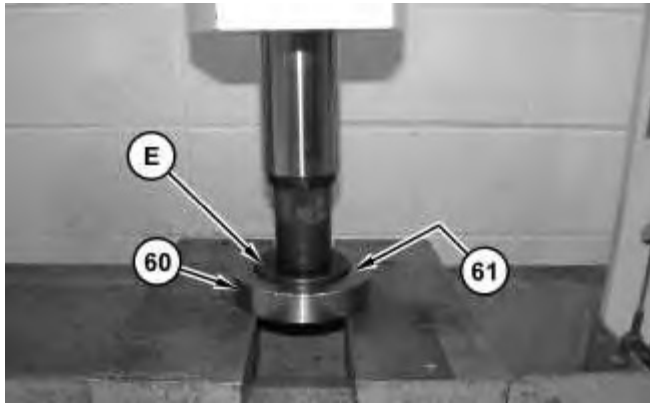


Illustration 61

g02798527

45. Use Tooling (E) and a suitable press in order to remove seal (61) (not shown) from seal assembly (60) .

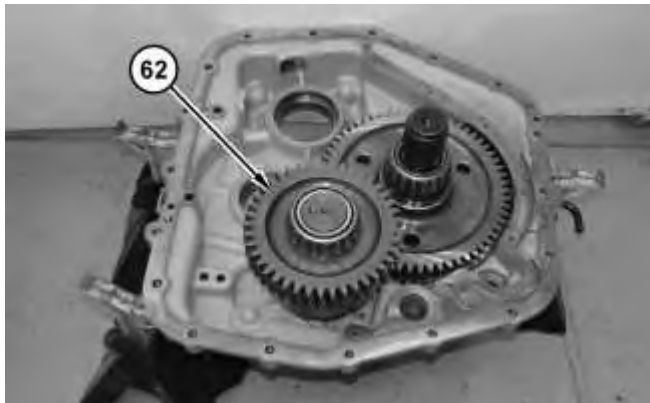


Illustration 62

g02798529

46. Remove shaft assembly (62) .

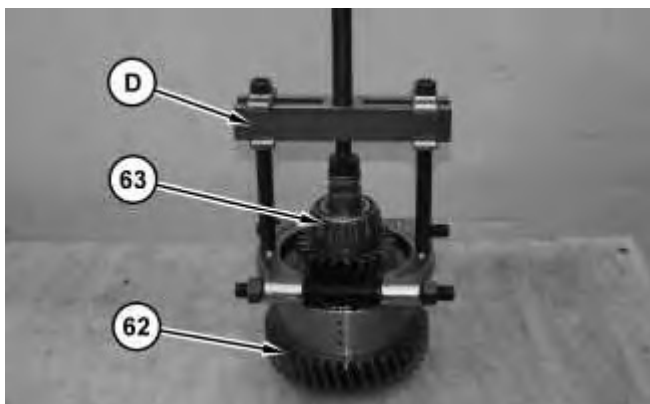


Illustration 63

g02798530



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47. Use Tooling (D) in order to remove gear assembly (63) from shaft assembly (62) .



Illustration 64

g02798531

48. Remove bearing cone (64) from gear assembly (63) .



Illustration 65

g02798532

49. Remove thrust washer (65) .



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