

Product: TELEHANDLER

Model: TH63 TELEHANDLER 5WM

Configuration: TH63 Telehandler 5WM00001-06020 (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly TH62, TH63, TH82, TH83 and TH103 Telehandlers Power Train

Media Number -REN3436-06

Publication Date -01/07/2004

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i02163125

## Transmission - Disassemble

SMCS - 3030-015

S/N - 3JN791-UP

S/N - 3RN2387-UP

S/N - 4TM2303-UP

S/N - 5WM3797-UP

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	2P-8250	Strap Wrench As	1
B	126-0413	Wrench	1
C	1P-0510	Driver Gp	1
D	156-7100	Slide Hammer Puller Gp	1
E	1P-1853	Retaining Ring Pliers	1
F	1P-2321	Combination Puller	1
G	FT-2508	Spring Compressor	1
H	1P-1860	Retaining Ring Pliers	1
I	1P-1859	Retaining Ring Pliers	1
J	5F-7366	Forcing Screw	1

	8B-7550	Push-Puller Leg	2
	1B-4207	Full Nut	2
	3H-0465	Push-Puller Plate	4
	8H-0663	Bearing Puller	1
	5F-7353	Washer	1
	5B-0637	High Idle Nut	1
	1U-9895	Crossblock	1
K	1P-7600	Puller	1
L	136-1452	Internal Tip Pliers	1
M	1P-0074	Slide Hammer Puller Gp	1

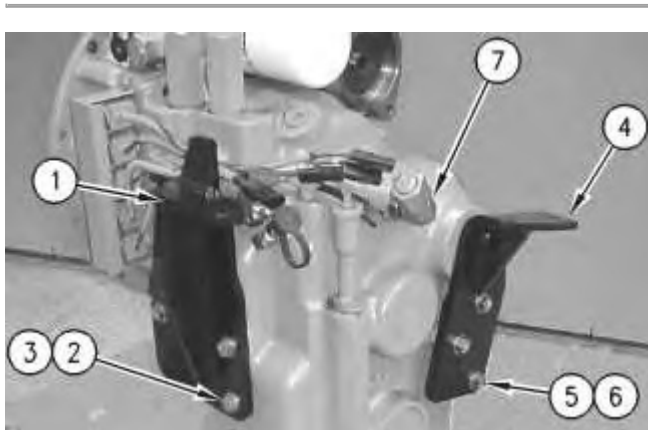
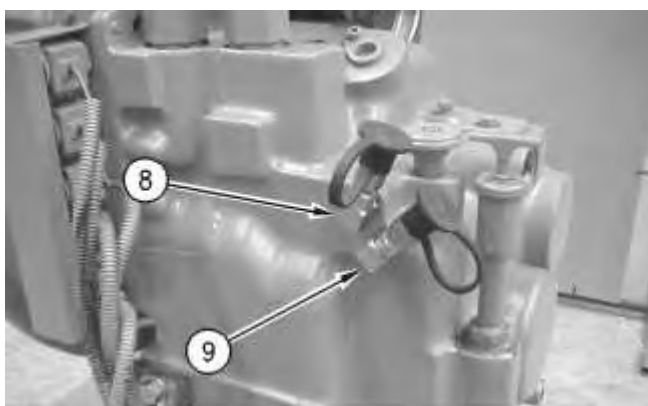


Illustration 1

g00718305

1. Remove bolts (2) and washers (3) in order to remove bracket (1). Remove bolts (5) and washers (6) in order to remove bracket (4). Remove fitting (7) .



2. Remove test fitting (8) and test fitting (9) .

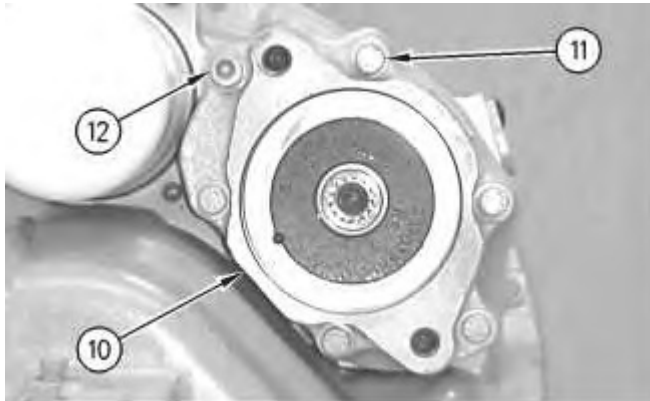


Illustration 3

3. Remove bolts (11) and allen head screw (12) from gear pump (10) .

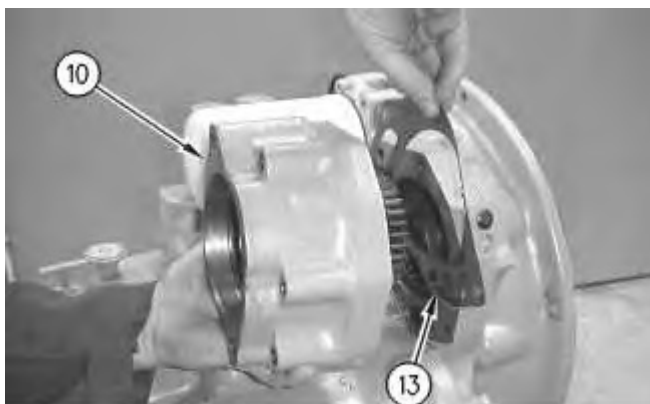


Illustration 4

4. Remove gear pump (10) and gasket (13) .
-

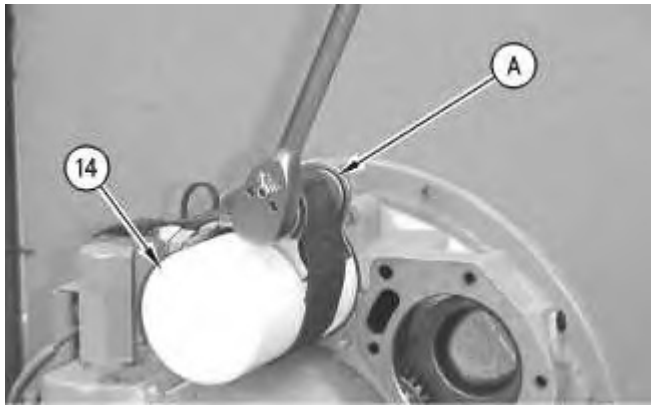


Illustration 5

g00718328

5. Use Tooling (A) in order to remove filter (14) .

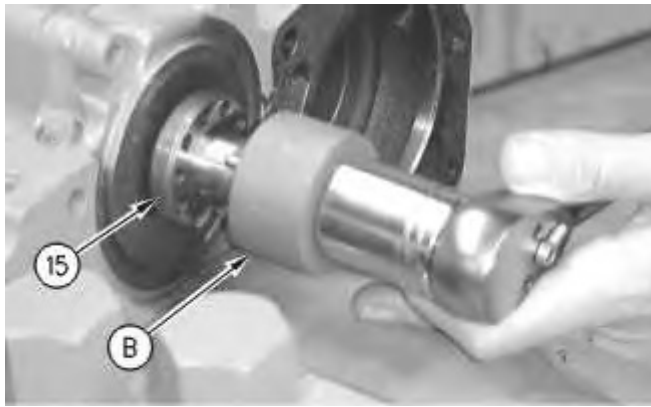


Illustration 6

g00718639

6. Use Tooling (B) in order to remove valve sleeve (15).

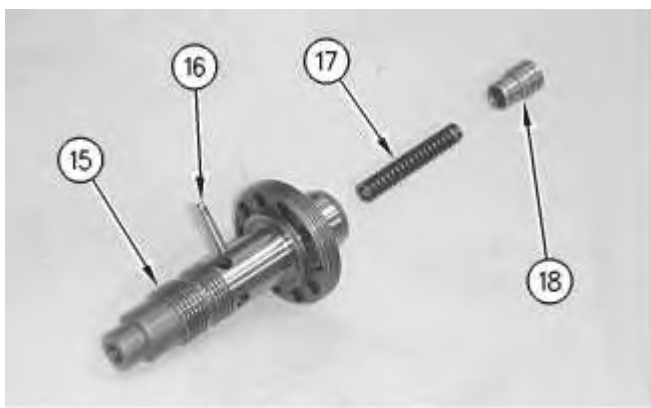


Illustration 7

g00718638

7. Use a hammer and a punch in order to push pin (16) out of valve sleeve (15). Remove piston (18) and spring (17) .



Illustration 8

g00718674

8. Remove bolts (19) and washers (20) from housing (21) .

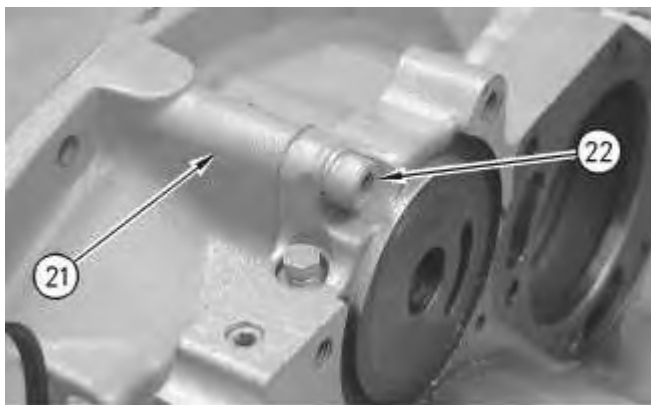


Illustration 9

g00718683

9. Remove allen head screw (22) from housing (21) .
-

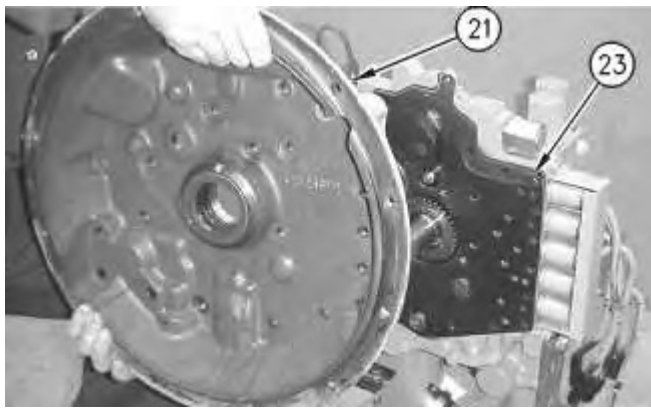


Illustration 10

g00718962

10. Carefully remove housing (21) and gasket (23) .

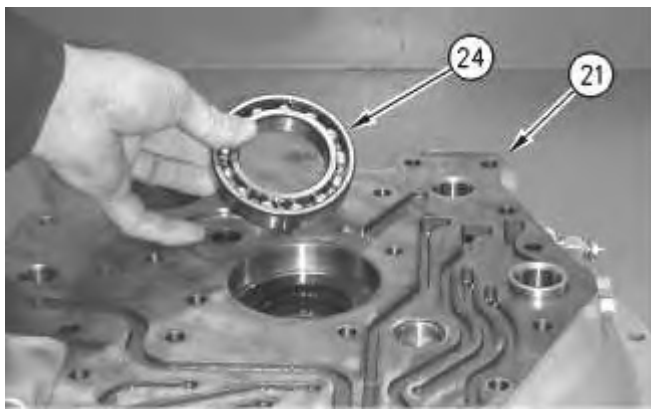


Illustration 11

g00718964

11. Remove bearing (24) from housing (21) .



Illustration 12

g01096866

12. Remove oil distributor (25) from housing (21) .

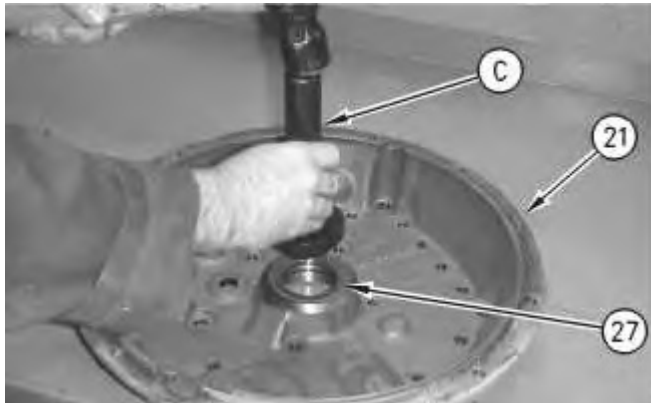


Illustration 13

g00718966

13. Use Tooling (C) in order to remove seal (27) from housing (21) .

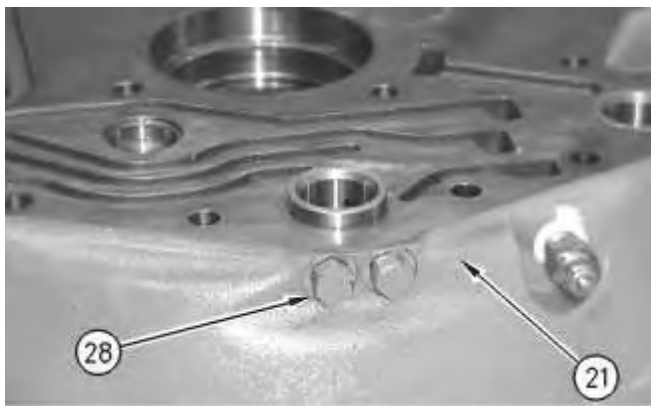


Illustration 14

g00718967

14. Remove plug (28) from housing (21) .



Illustration 15

g00718968

15. Remove set screw (29) .

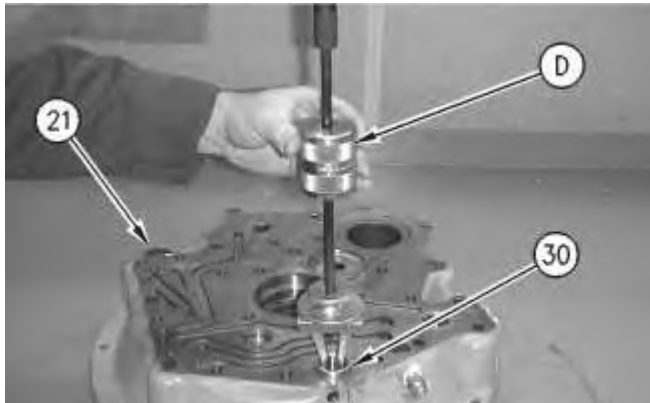


Illustration 16

16. Use Tooling (D) in order to remove sleeve (30) from housing (21) .



Illustration 17

17. Remove plug (31) from housing (21) .
-



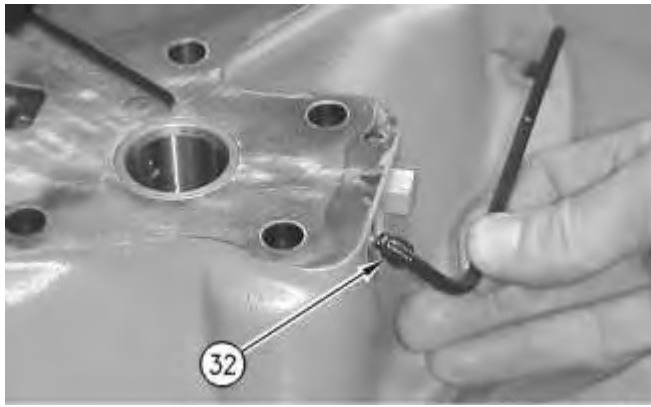


Illustration 18

g00718983

18. Remove set screw (32) .

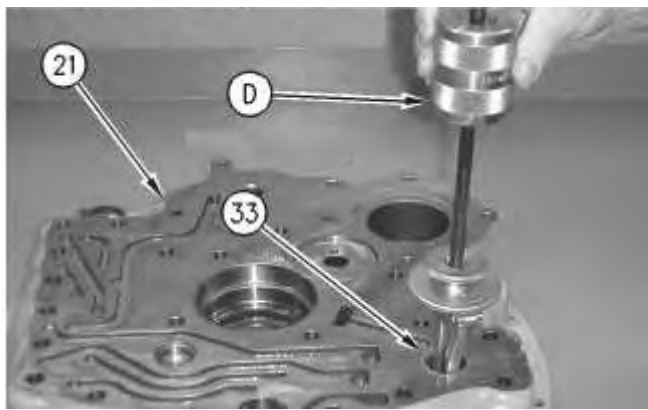


Illustration 19

g00718986

19. Use Tooling (D) in order to remove sleeve (33) from housing (21) .



Illustration 20

g00719061

20. Remove hub gear (34) for the torque converter impeller.

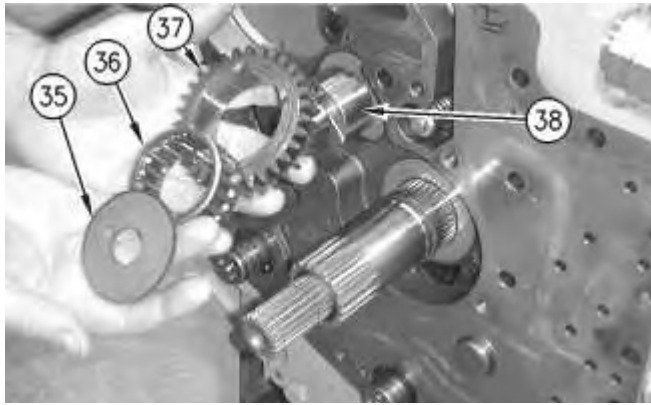


Illustration 21

g00719067

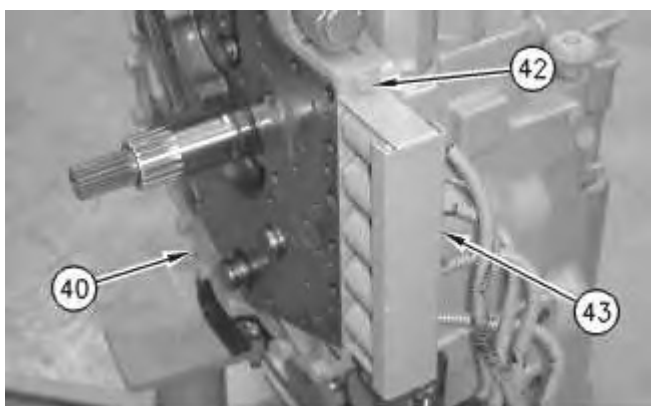
21. Remove thrust washer (35), roller bearing (36), and drive gear (37) from idler shaft (38) .



Illustration 22

g00719073

22. Remove idler shaft (38) and thrust washer (39) from spacer plate (40) .



23. Remove bolts (42) and remove cover (43) which protects the solenoid valves.

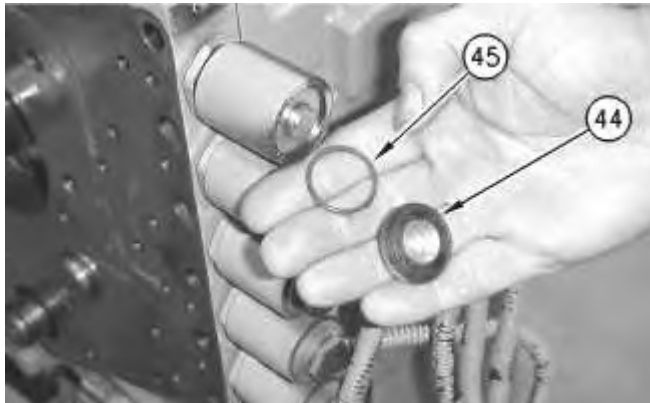


Illustration 24

24. Remove retaining nut (44) for the solenoid cartridge. Remove O-ring seal (45) .

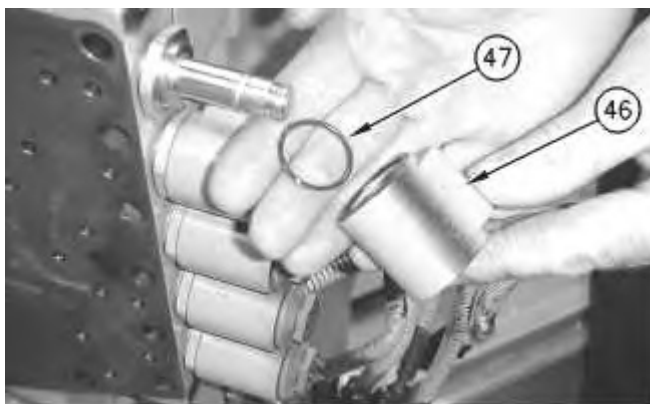


Illustration 25

25. Remove solenoid coil (46) and O-ring seal (47) .
26. Repeat steps 24 through 25 in order to remove the remaining four solenoid coils.
-

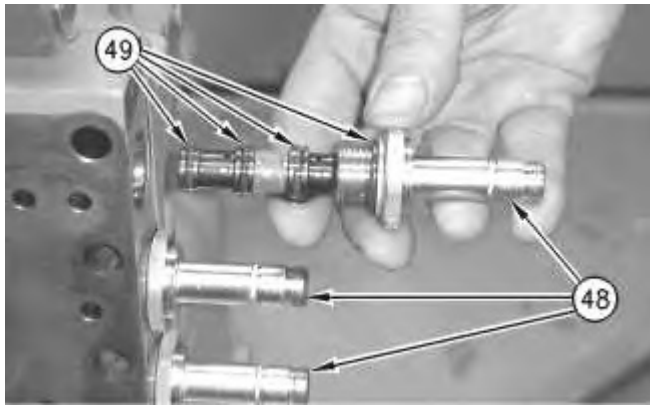


Illustration 26

g00719091

27. Remove solenoid valve cartridge (48). Remove four O-ring seals (49) from solenoid valve (48) .
28. Repeat step 27 in order to remove the remaining four solenoid valves.



Illustration 27

g00719306

29. Place transmission case (50) on a suitable work bench. Remove bolts (51) and washers (52) from spacer plate (40).



- Carefully pry spacer plate (40) away from transmission case (50). At the same time strike shaft (53) and shaft (54) with a rubber mallet. This will remove two internal bearings from spacer plate (40). Carefully remove spacer plate (40) from transmission case (50).

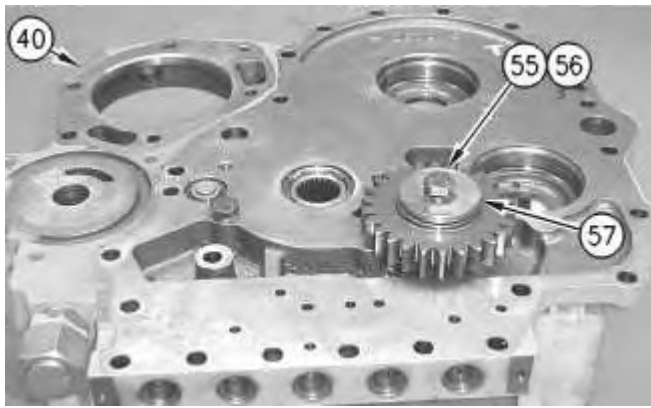


Illustration 29

- Support spacer plate (40) with suitable cribbing on a work bench. Remove bolt (55), washer (56), and thrust washer (57) .



Illustration 30

- Remove gear (58), roller bearing (59), and thrust washer (60) from shaft (61) .

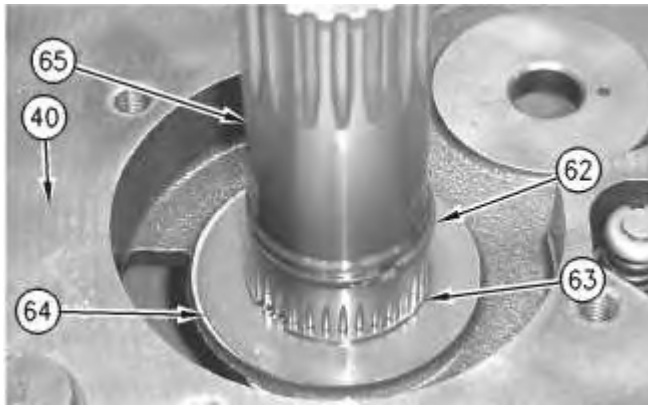


Illustration 31

g00719311

33. Remove oil ring (62) and the expander ring. Remove snap ring (63) and thrust washer (64). Push stator support (65) into spacer plate (40). Turn spacer plate (40) onto the opposite side.

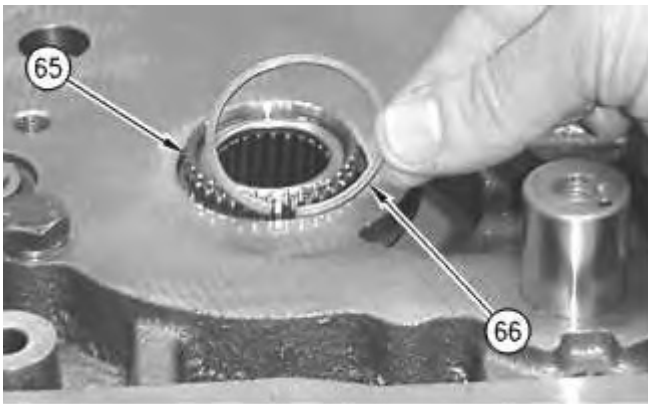


Illustration 32

g00719315

34. Remove snap ring (66) from stator support (65) .

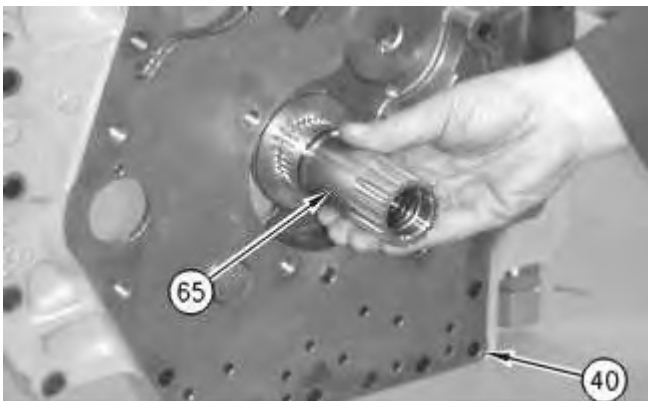


Illustration 33

g00719317

35. Vertically position spacer plate (40) and support with suitable cribbing. Remove stator support (65) from spacer plate (40) .

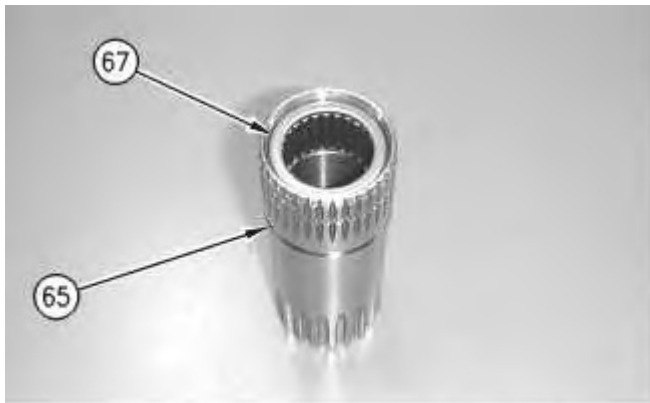


Illustration 34

g00719375

36. Remove needle bearing (67) from stator support (65) .

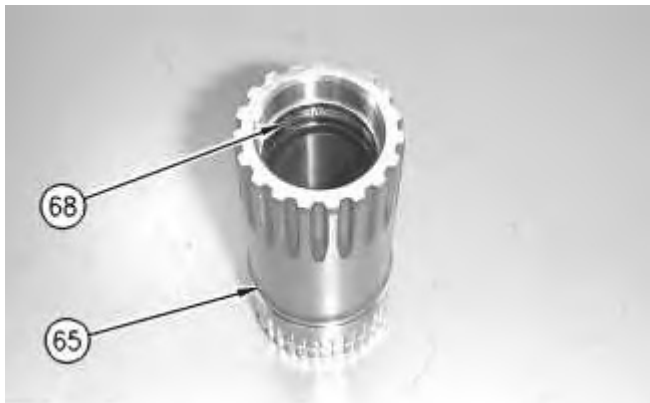


Illustration 35

g00719381

37. Remove bushing (68) from stator support (65) .
-

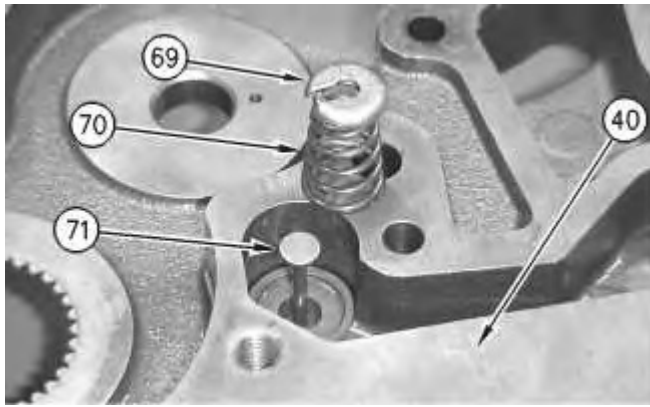


Illustration 36

g00719399

## **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.**

38. Compress spring (70) for the safety valve and remove retaining cap (69). Remove poppet valve (71) from the opposite side of spacer plate (40) .

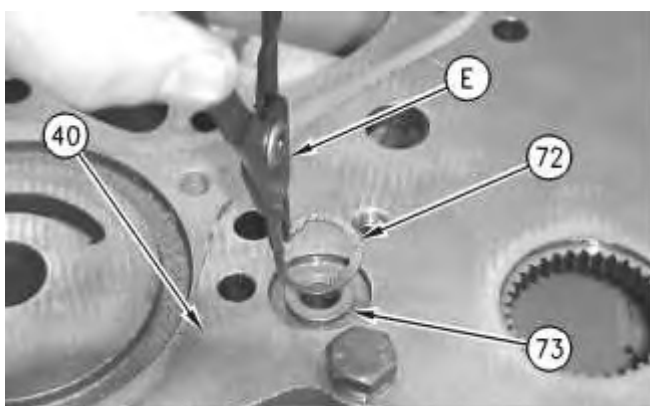


Illustration 37

g00719417

39. Turn spacer plate (40) onto the opposite side. Use Tooling (E) in order to remove snap ring (72). Use Tooling (C) in order to remove valve seat (73) .



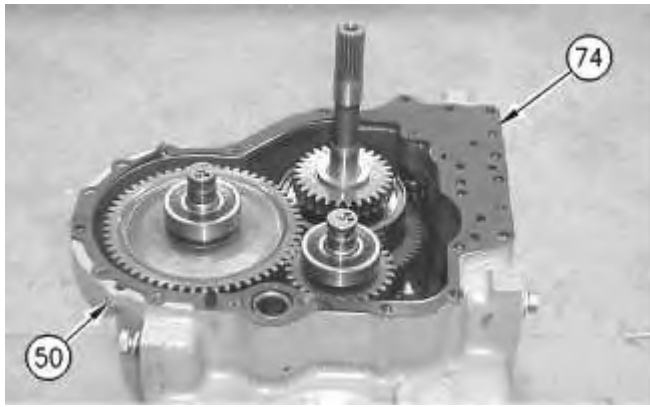


Illustration 38

g00719470

40. Remove gasket (74) from transmission case (50) .
41. Use steps 42 through 67 in order to disassemble the first speed and second speed clutches.

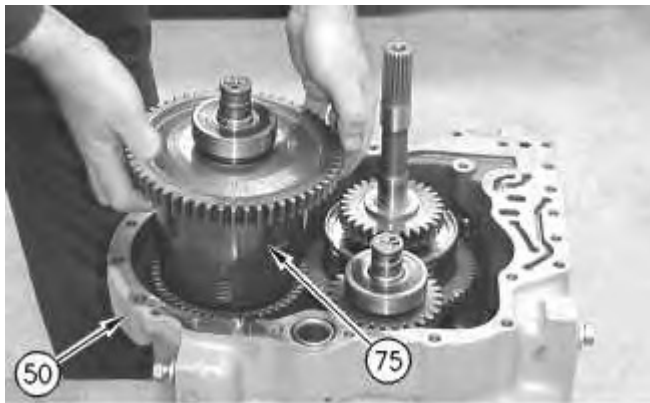


Illustration 39

g00719473

42. Remove the first speed and second speed clutches (75) from transmission case (50) .



Illustration 40

g00719479

43. Support the first speed and the second speed clutch on suitable cribbing. Remove two oil rings (76) from shaft (77) .

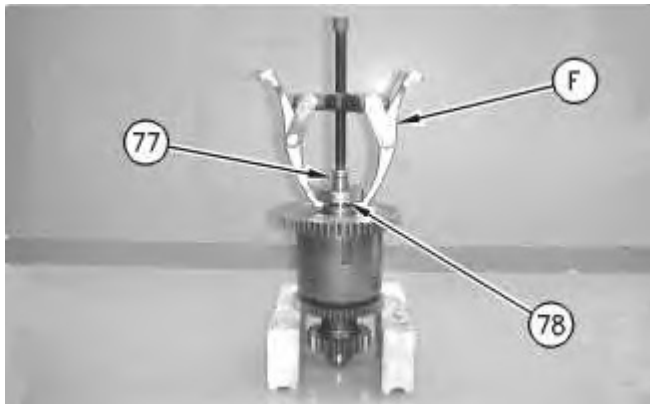


Illustration 41

g00719483

44. Use Tooling (F) in order to remove roller bearing (78) from shaft (77) .

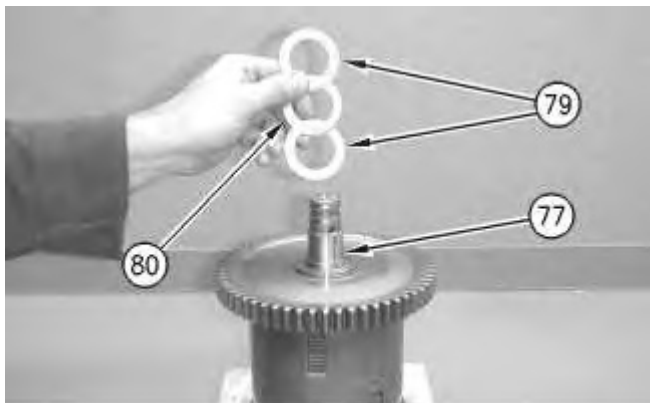


Illustration 42

g00719489

45. Remove two washers (79) and bearing (80) from shaft (77) .
-

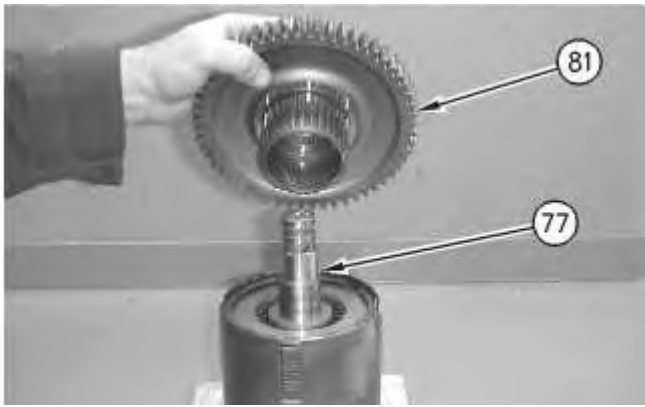


Illustration 43

g00719490

46. Remove gear (81) from shaft (77) .



Illustration 44

g00719491

47. Support gear (81) on suitable cribbing. Use Tooling (C) in order to remove two needle bearings (82) .

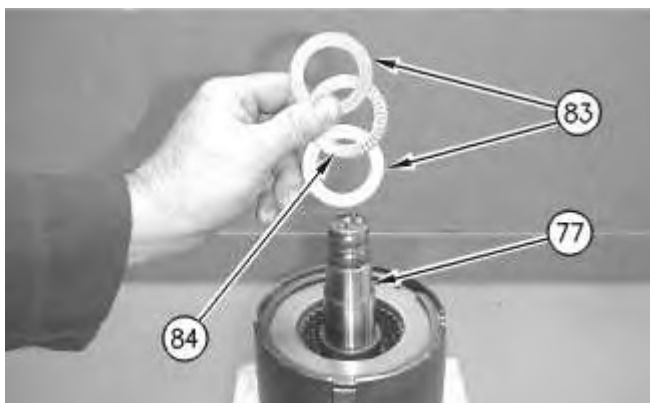


Illustration 45

g00719494

48. Remove washers (83) and bearing (84) from shaft (77) .

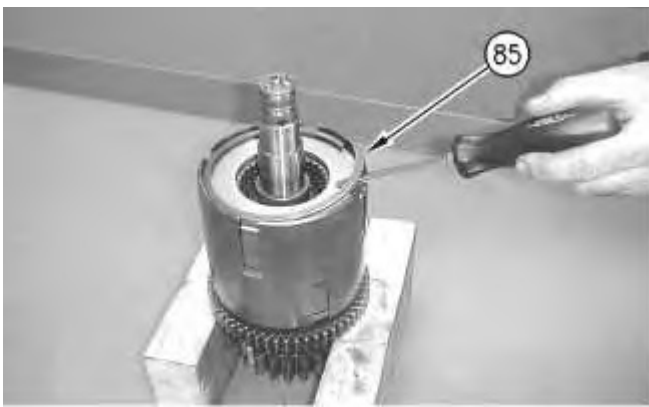


Illustration 46

g00719496

49. Use a screwdriver to remove snap ring (85) .

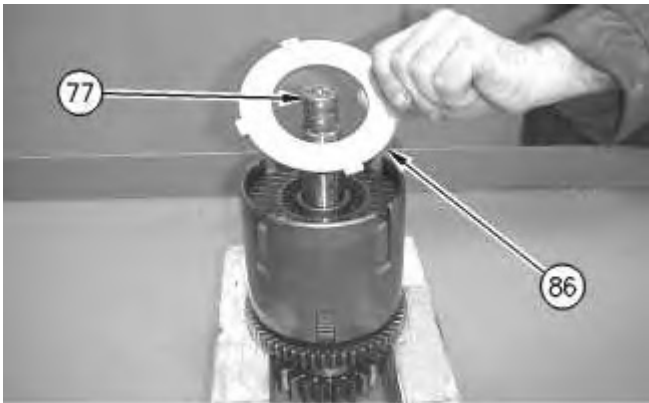
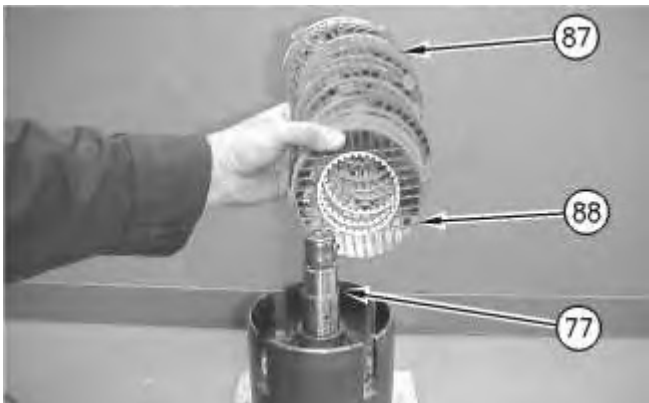


Illustration 47

g00719498

50. Remove end plate (86) from shaft (77) .



51. Remove clutch plates (88) and friction discs (88) from shaft (77) .

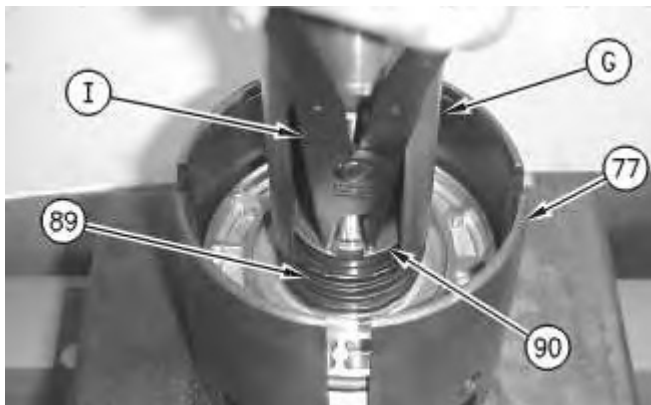


Illustration 49

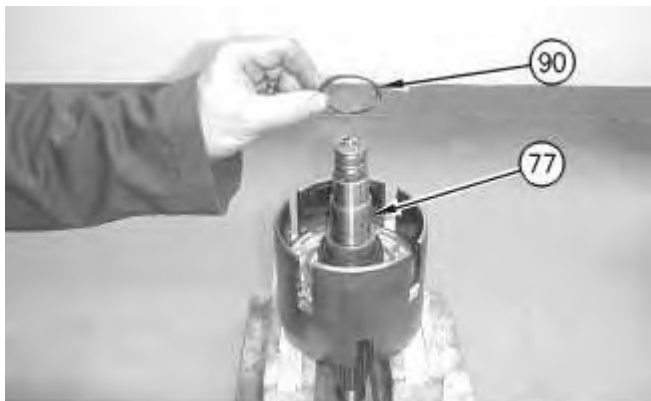
**! WARNING**

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**Make sure to wear all necessary protective equipment.**

**Follow the recommended procedure and use all recommended tooling to release the spring force.**

52. Use Tooling (G) with a suitable press to compress springs (89). Use Tooling (I) and release snap ring (90) from shaft (77). Carefully release the spring tension and remove Tooling (G) .



53. Place shaft (77) on suitable cribbing and remove snap ring (90) .



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Illustration 51

54. Remove ring retainer (91) from shaft (77) .



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Illustration 52

55. Remove springs (89) from shaft (77) .
-



Illustration 53

g00720242

56. Remove wear plate (92) from shaft (77) .

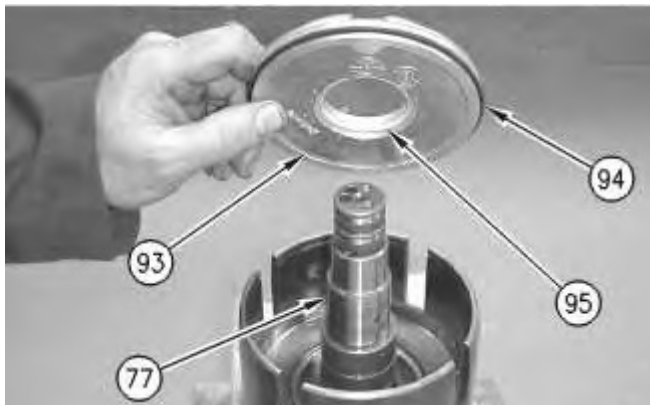


Illustration 54

g00721508

57. Remove piston (93) from shaft (77). Remove outer sealing ring (94) and inner sealing ring (95) from piston (93) .

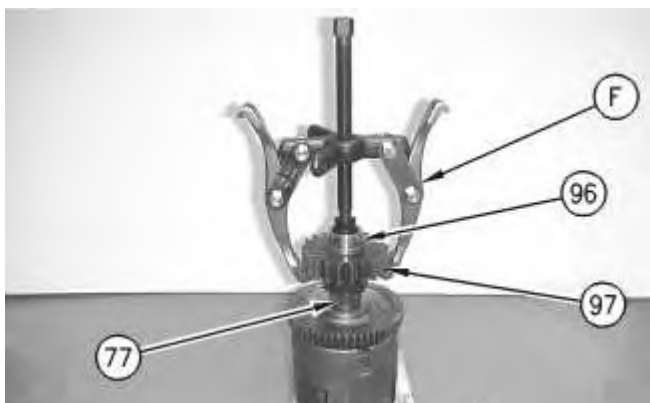


Illustration 55

g00719967

58. Turn shaft (77) onto the opposite side and support with suitable cribbing. Use Tooling (F) in order to remove gear (97) and bearing (96) from shaft (77) .

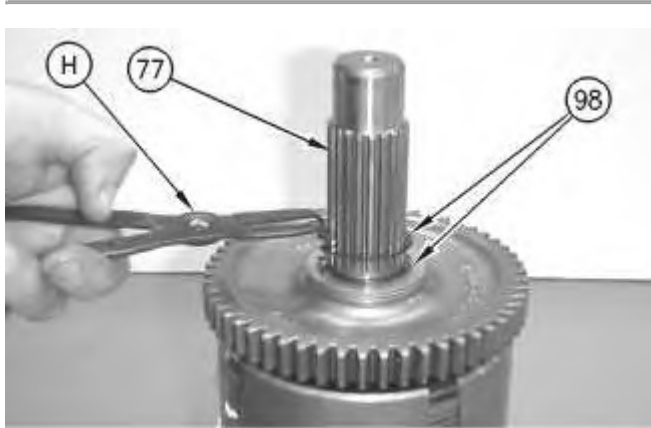


Illustration 56

g00719975

59. Use Tooling (H) in order to remove two snap rings (98) from shaft (77) .

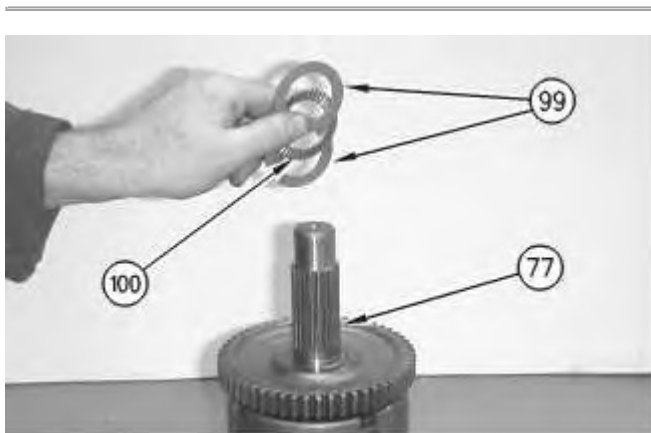


Illustration 57

g00719988

60. Remove washers (99) and bearing (100) from shaft (77) .
-



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