

Product: WHEEL LOADER

Model: 972M XE WHEEL LOADER EDW

Configuration: 972M XE Wheel Loader EDW00001-UP (MACHINE) POWERED BY C9.3 Engine

Disassembly and Assembly 966M XE and 972M XE Wheel Loader Power Train

Media Number -M0082559-01

Publication Date -01/09/2015

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i07161813

Transmission - Disassemble

SMCS - 3002-015; 3030-015; 3159-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3940	Link Bracket	2
B	6V-8359	Bolt	1
C	8B-7551	Bearing Puller Gp	1
D	8H-0663	Bearing Puller Gp	1
	6V-3009	Crossbar	1
	6V-4832	Forcing Screw	1
	126-7181	Sliding Plate	2
	126-7177	Puller Leg	2
E	—	Arbor Press	1
F	6V-5218	Bolt	1
G	6V-3009	Crossbar	1
	7X-0909	Bolt	2
	126-7181	Sliding Plate	2
	6V-4832	Bolt	1
	9S-9154	Step Plate	1

	9U-7480	Compressing Tube	1	
J	3E-3879	Eyebolt	1	
K	5F-7343	Bearing Puller Gp	1	
L	1P-0074	Slide Hammer Puller Gp	1	
	154-6183	Forcing Bolt	1	
M	3E-3879	Eyebolt	2	
	368-8611	Adapter	2	
	-	Threaded Rod M16 -2 by 70 mm Long	2	
N	1U-9895	Crossblock	1	
	8T-0649	Bolt	2	
	3H-0465	Push-Puller Plate	2	
	5L-4544	Lifting Eye	1	
	6V-8182	Nut	1	
	6V-3009	Crossbar	1	
	6V-4832	Forcing Screw	1	
	126-7181	Sliding Plate	2	
	P	4C-5655	Threaded Adapter	2
		9S-9152	Spacer	1
		126-7177	Puller Leg	2
		6B-6684	Full Nut	2
2M-0849		Hard Washer	2	
R	6V-3009	Crossbar	1	
	126-7181	Sliding Plate	2	
	6V-4832	Forcing Screw	1	
	126-7177	Puller Leg	2	
	6B-6684	Full Nut	2	
	2M-0849	Hard Washer	2	
	4C-5652	Threaded Adapter	2	
	9S-9155	Spacer	1	
S	156-7100	Slide Hammer Puller Gp	1	
T	—	12mm bolt	1	

U	1P-1861	Retaining Ring Pliers	1
AA	1P-2420	Transmission Repair Stand	1
	0S-1608	Bolts	4
	9S-8752	Full Nut	4
	5M-2894	Hard Washer	8
BB	370-0551	Adapter Plate	1
	0T-0768	Bolts	4
	7X-0447	Nut	4
	8T-5360	Washer	8
CC	439-3938	Link Bracket	2
	1U-9200	Lever Puller Hoist Gp	1
	386-6031 ⁽¹⁾	Lever Puller Hoist Gp	1

⁽¹⁾ This part number complies with European requirements.

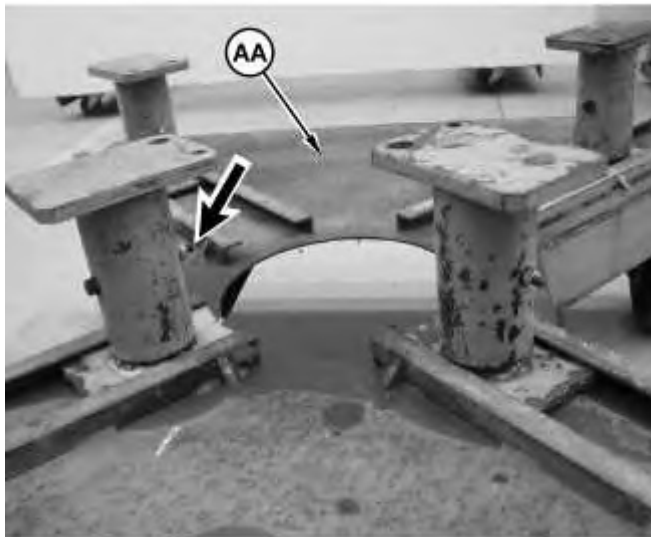


Illustration 1

g02323713

1. Drill a hole into each of the supports of Tooling (AA) so that each support may be bolted in the position shown in Illustration 1. Install bolts into each support.

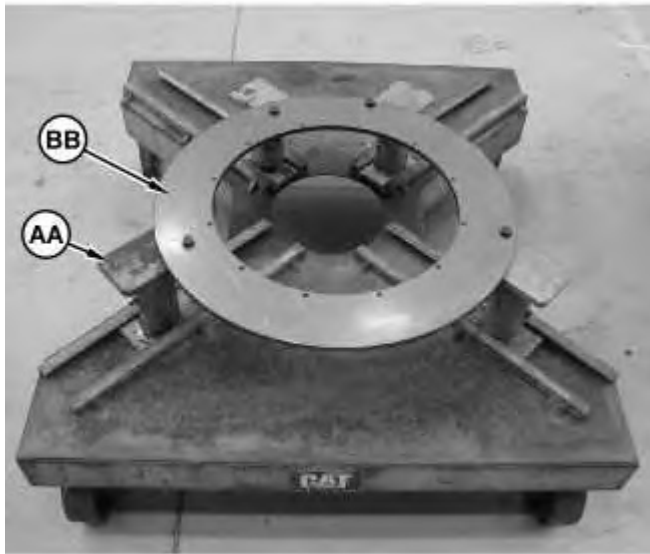


Illustration 2

g02323714

2. Attach Tooling (BB) onto Tooling (AA) with the bolts, washers, and nuts.

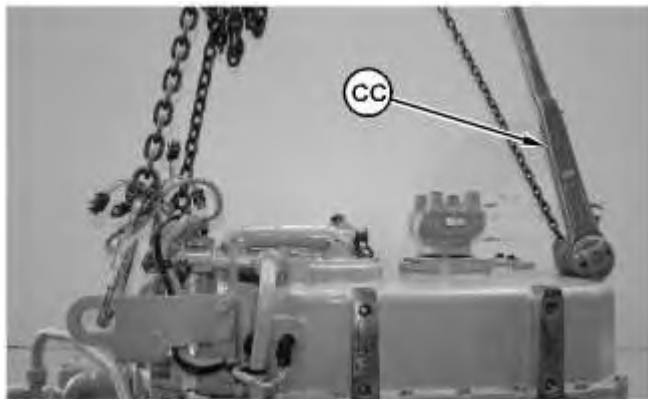


Illustration 3

g06060041

3. Attach Tooling (CC) and a suitable lifting device to the transmission. The weight of the transmission is approximately 1021 kg (2250 lb).



4. Use the suitable lifting device to position the transmission onto Tooling (BB). Attach the transmission to Tooling (BB) with bolts and nuts.

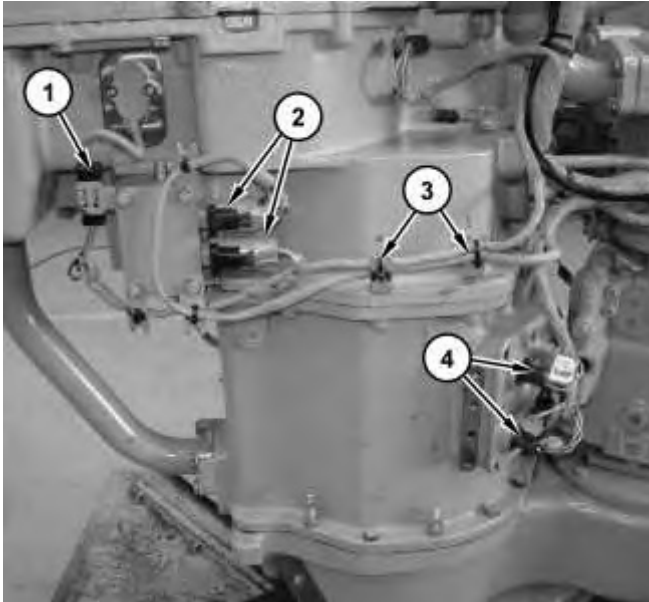


Illustration 5

5. Disconnect harness assemblies (1) (2), and (4). Remove clips (3) from the transmission.

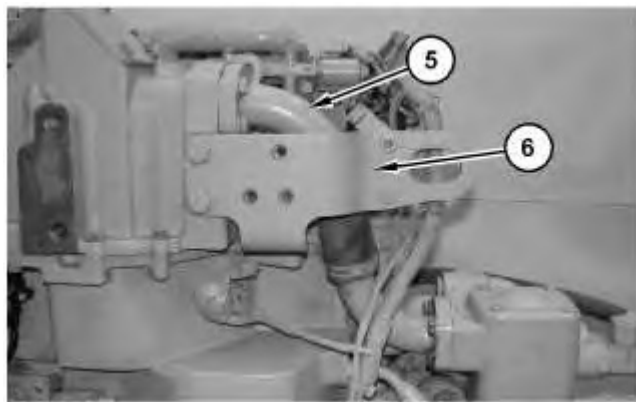


Illustration 6

6. Remove tube assembly (5). Remove bracket (6).
-

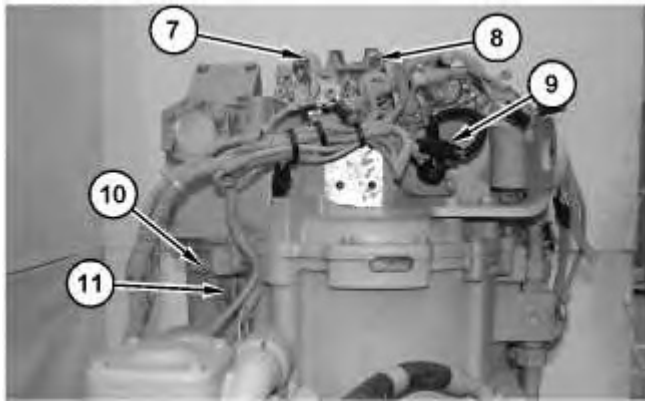


Illustration 7

g06060752

7. Disconnect connectors (7), (8), and (9). Disconnect connectors (10). Remove bracket (11).

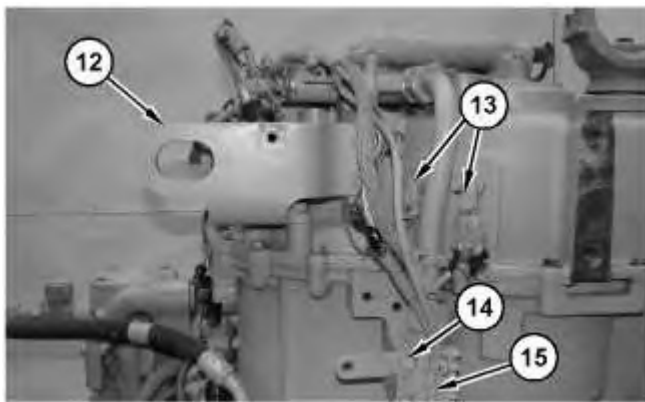


Illustration 8

g06060770

8. Remove bracket assembly (12). Disconnect harness assemblies (13) and remove clips (14) and (15).

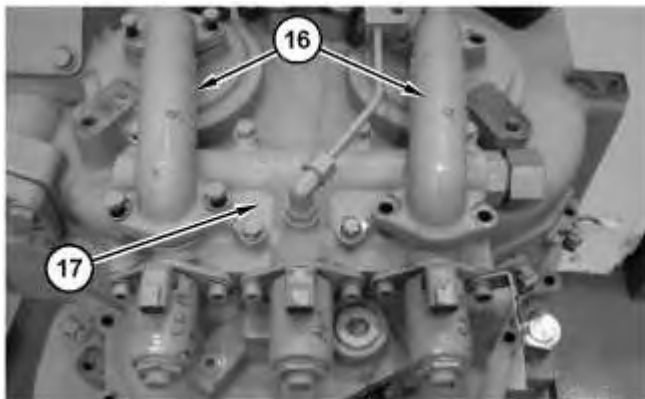


Illustration 9

g06072740

9. Remove tubes (16). Remove manifold assembly (17).

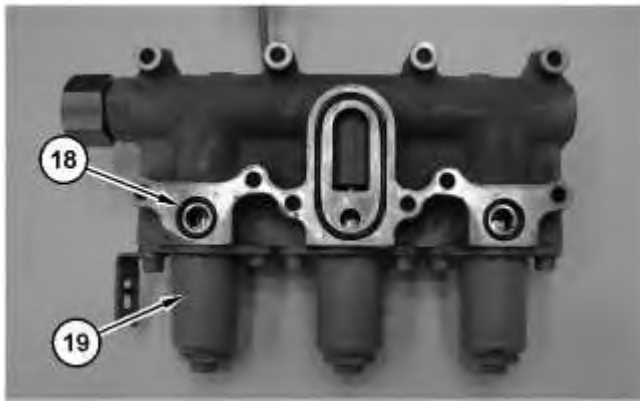


Illustration 10

g06083018

10. Remove O-ring seals (18) and 3 valves (19).

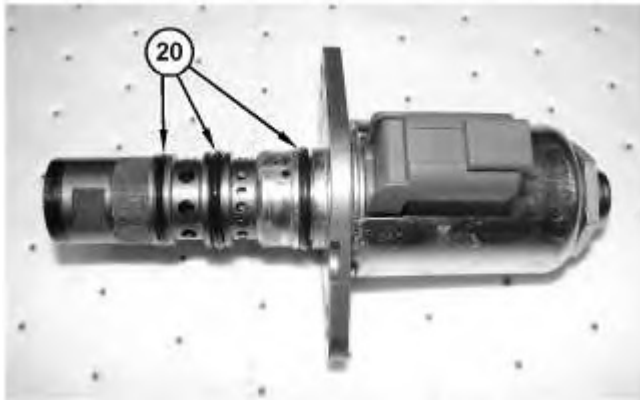


Illustration 11

g06072765

11. Remove O-ring seals (20).

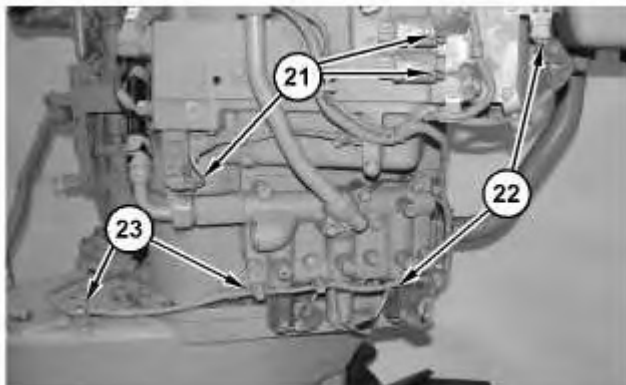


Illustration 12

g06072801

12. Disconnect harness assemblies (21) and (22). Disconnect all clips (23).

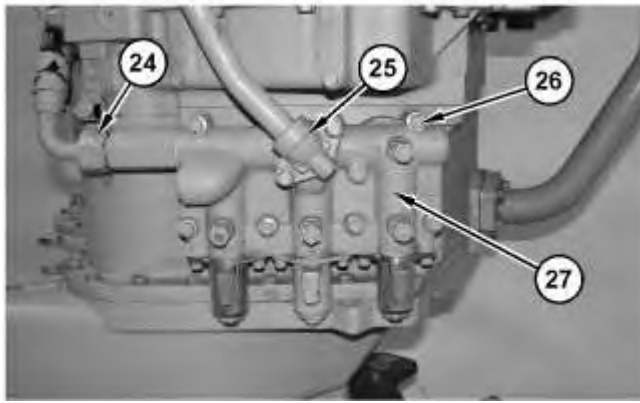


Illustration 13

g06060792

13. Disconnect hose assembly (24). Remove tube assembly (25). Remove bolts (26). Remove manifold assembly (27).

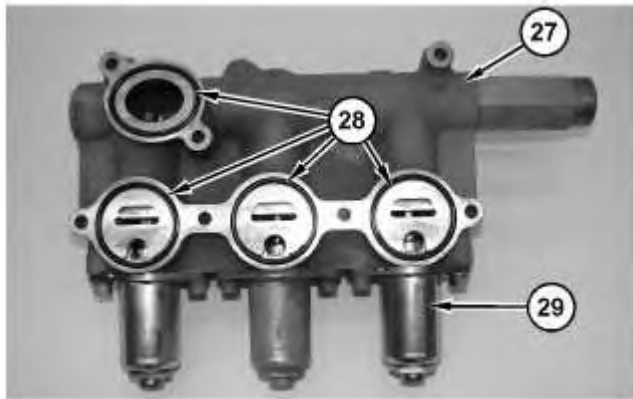


Illustration 14

g06061192

14. Remove O-ring seals (28) from manifold assembly (27). Remove three valves (29).

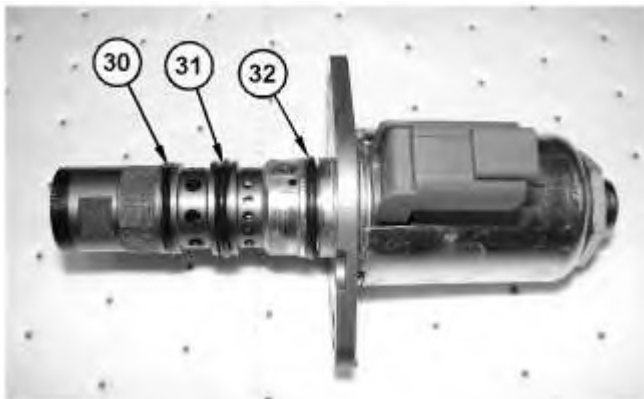


Illustration 15

g06061148

15. Remove O-rings (30), (31), and (32) from each valve.

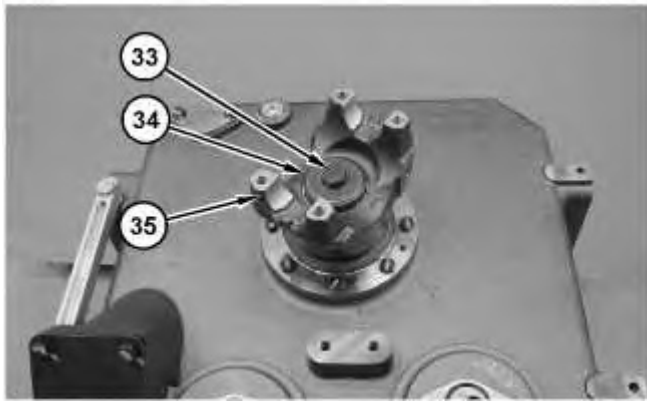


Illustration 16

g06061238

16. Remove bolt (33), retainer (34), and the O-ring seal from yoke (35). Remove yoke (35).

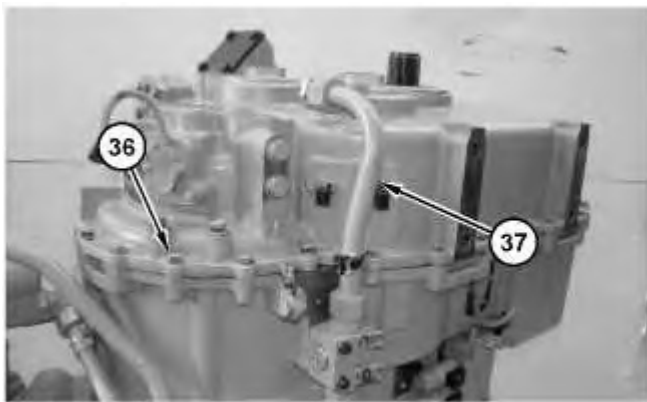


Illustration 17

g06061245

17. Remove tube assembly (37). Remove bolts (36).

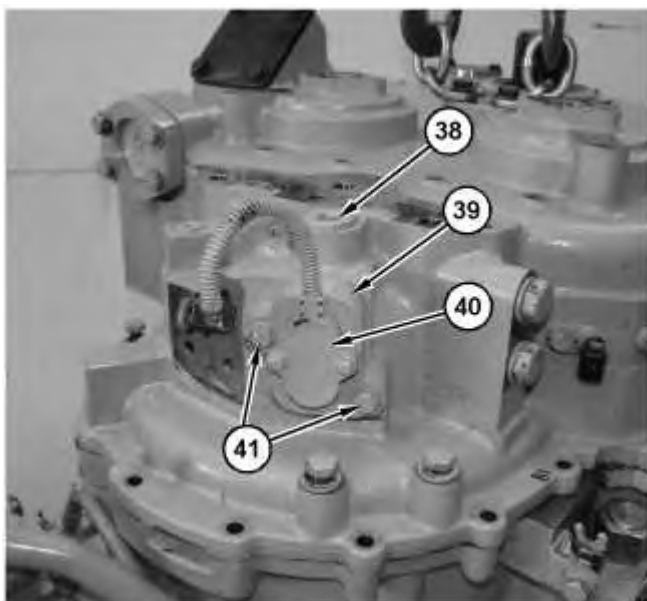


Illustration 18

g06061272

18. Remove bolts (41). Remove cover (39) and sensor assembly (40) as a unit. Remove plug (38).

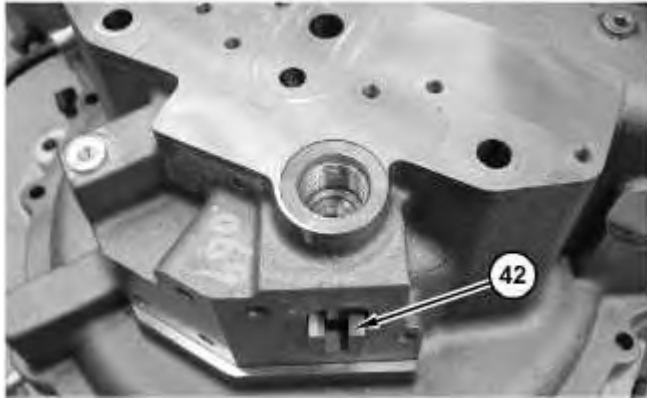


Illustration 19

g06061277

19. Remove target (42).

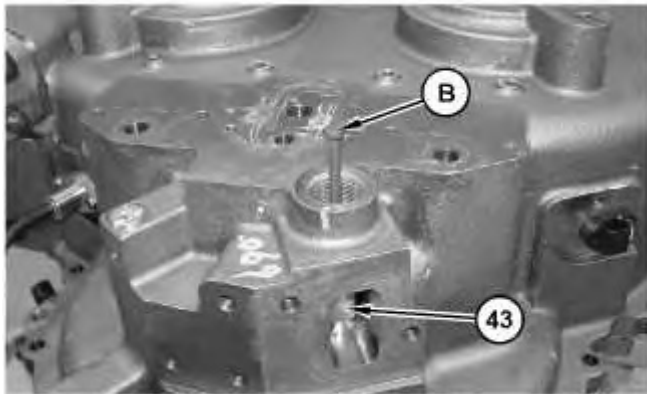


Illustration 20

g06061294

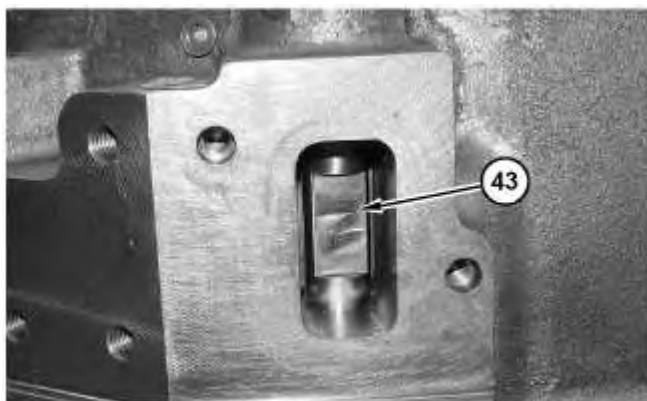


Illustration 21

g06061308

20. Install Tooling (B) into rod (43). Turn rod (43) to the position shown in Illustration . Remove rod (43).
-

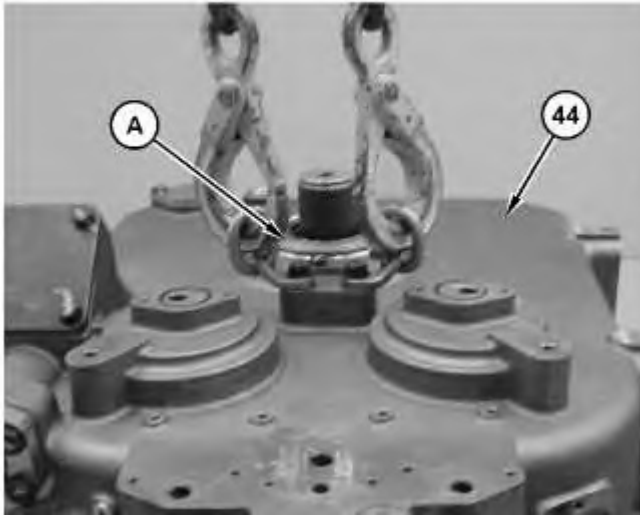


Illustration 22

g06072899

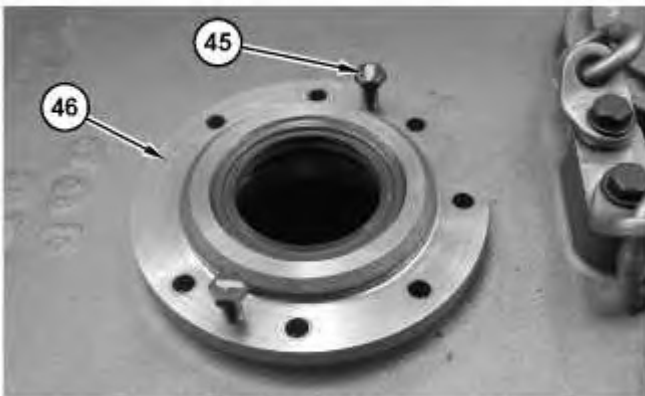
21. Attach a suitable lifting device and Tooling (A) to remove housing assembly (44). The weight of housing assembly (44) is approximately 113 kg (250 lb).



Illustration 23

g06061381

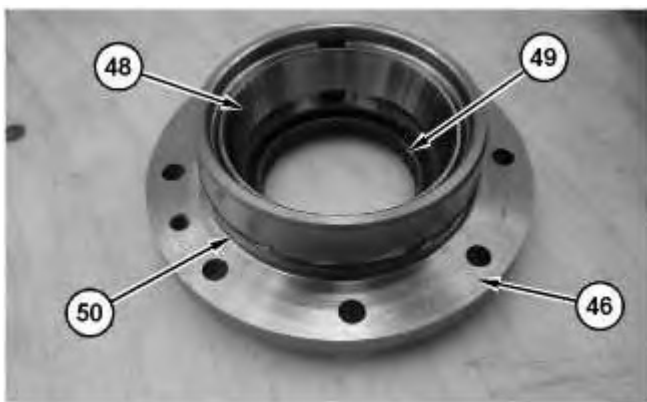
22. Remove bolts (45).



23. Use two of bolts (45) to remove bearing cage (46).



24. Remove shims (47).



25. Remove O-ring seal (50), lip seal (49), and bearing cup (48) from bearing cage (46).



26. Remove cover (51).

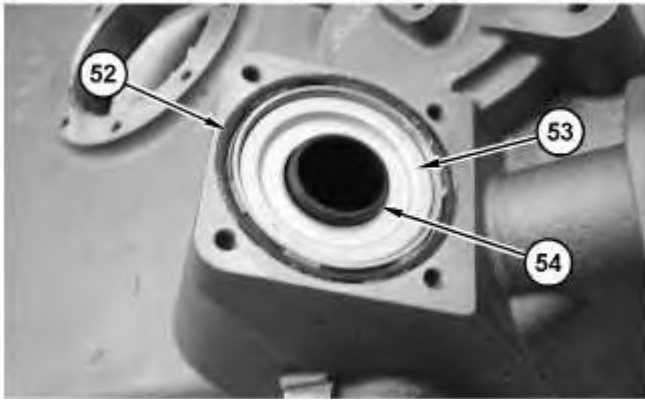


Illustration 28

g06063280

27. Remove O-ring seal (52). Remove suction screen (53) and tube (54).

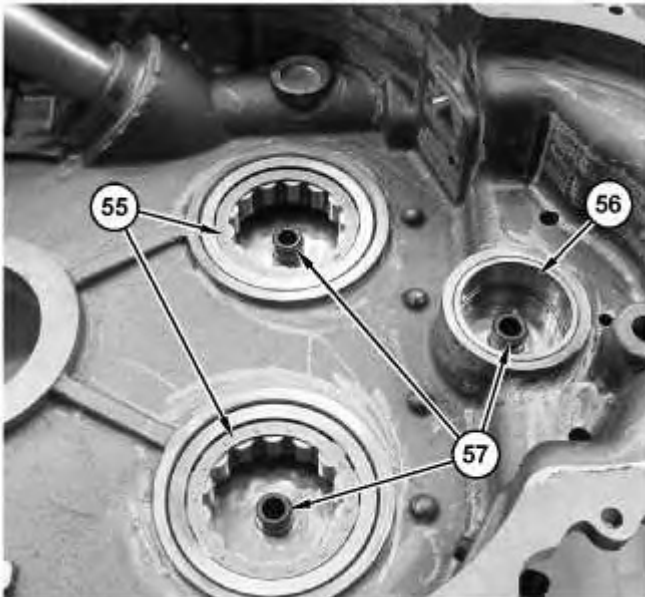
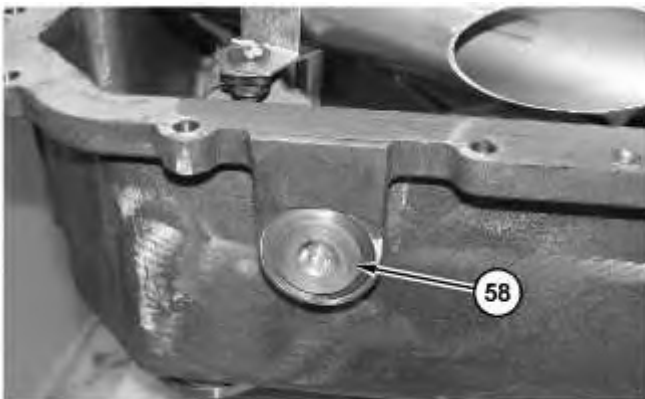


Illustration 29

g06063286

28. Remove seal rings (57). Remove roller bearings (55) and bearing cup (56).



29. Remove drain assembly (58).

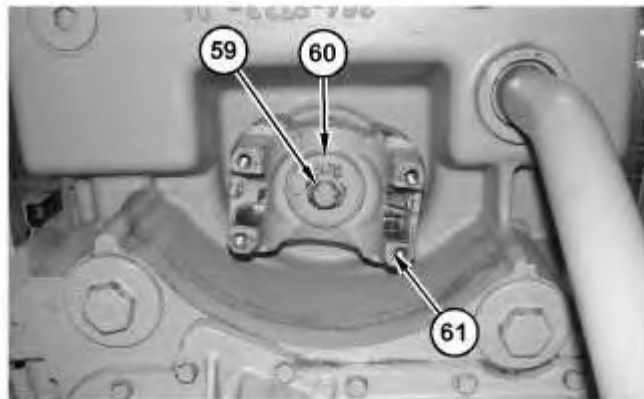


Illustration 31

30. Remove bolt (59), retainer (60), and the O-ring seal from yoke (61). Remove yoke (61).

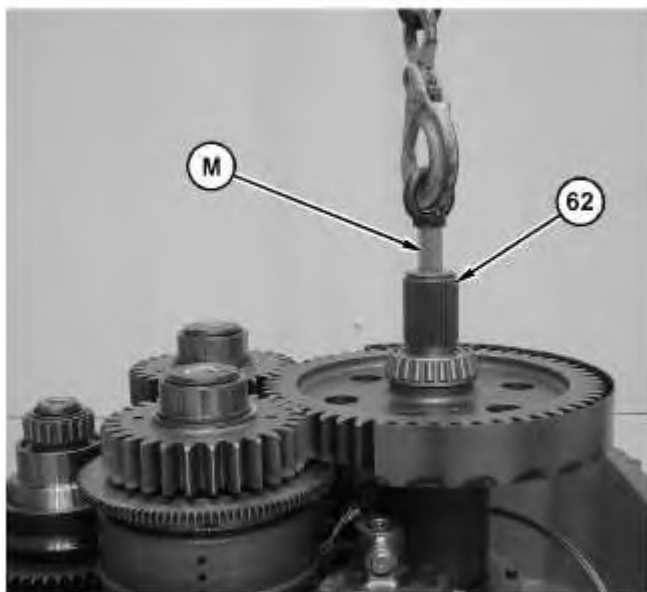


Illustration 32

31. Use Tooling (M) and a suitable lifting device to remove gear group (62). The weight of gear group (62) is approximately 36 kg (80 lb).

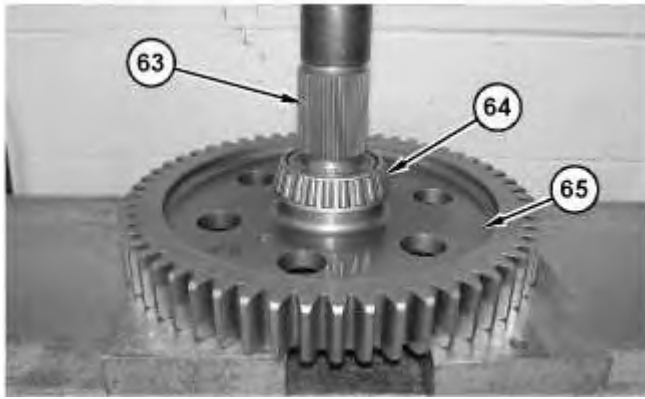


Illustration 33

g06063326

32. Use a suitable press to remove shaft (63) from gear (65) and bearing cone (64).

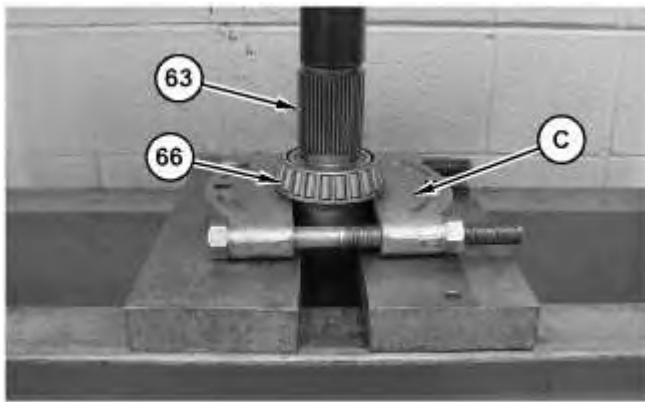


Illustration 34

g06064876

33. Use Tooling (C) and a suitable press to remove bearing cone (66) from shaft (63).



Illustration 35

g06090080

34. Remove shield assembly (67). Note the location of tab (68) for assembly purposes.



Illustration 36

g06090129

35. Back out detent pins (69) and (70).

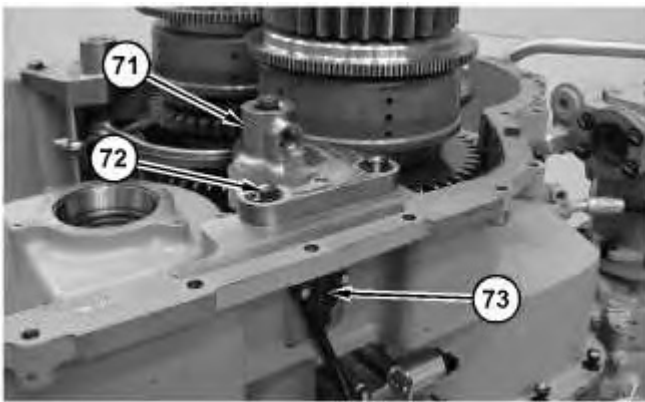


Illustration 37

g06073402

36. Remove sensor assembly (73). Remove bolts (72) from guide plate (71).

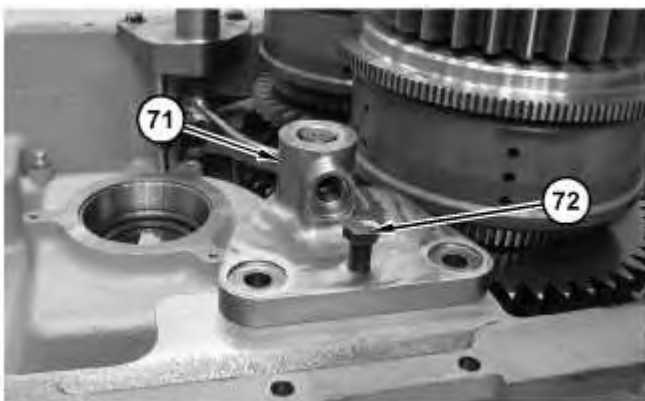


Illustration 38

g06065000

37. Use one of bolts (72) to remove guide plate (71).

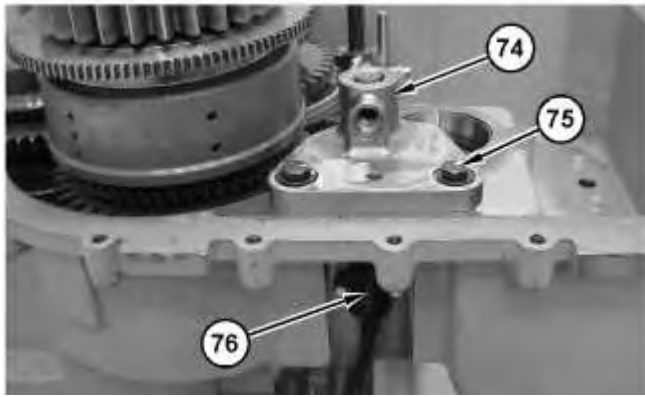


Illustration 39

g06065018

38. Remove sensor assembly (76). Remove bolts (75) from guide plate (74). If necessary, use one of bolts (75) to remove guide plate (74).

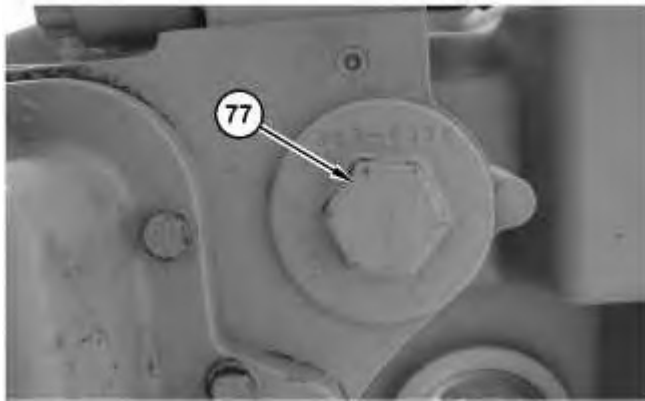


Illustration 40

g06066714

39. Remove plug (77).

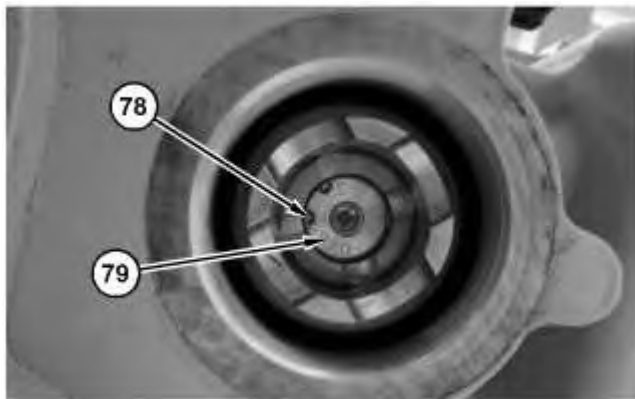


Illustration 41

g06066718

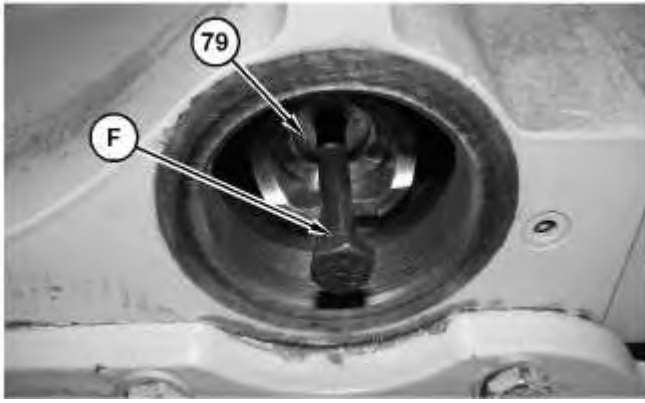


Illustration 42

g06066728



Illustration 43

g06067061

40. Remove retaining ring (78). Install Tooling (F), remove plug (79).

41. Remove bolt (80). Reinstall plug (79) and retaining ring (78).

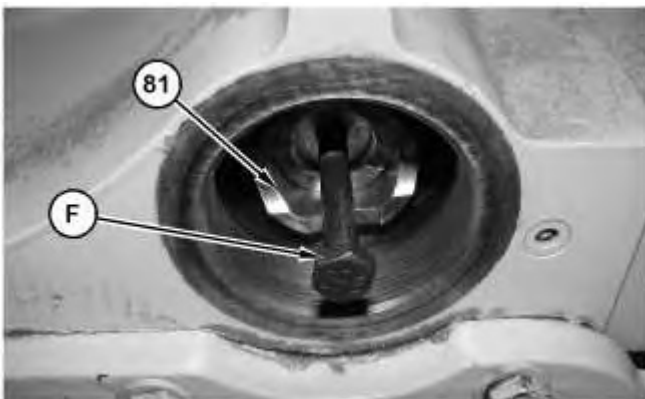


Illustration 44

g06067214



Illustration 45

g06090408

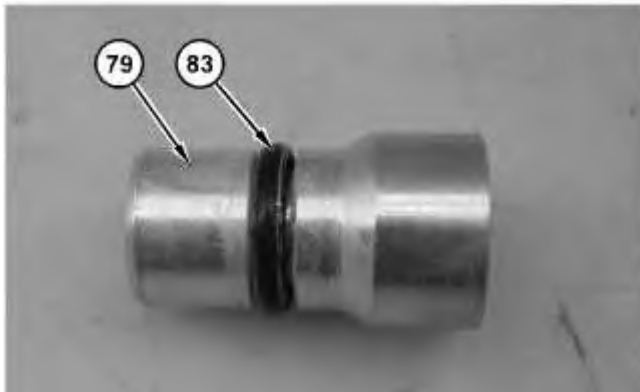


Illustration 46

g06090453

42. Use Tooling (F) and a suitable pry bar to pull piston assembly (81) from the housing.
43. Remove O ring seals (82) from piston assembly (81).
44. Remove plug (79). Remove O-ring seals (83) from plug (79).
45. Repeat steps 42 for the opposite side.

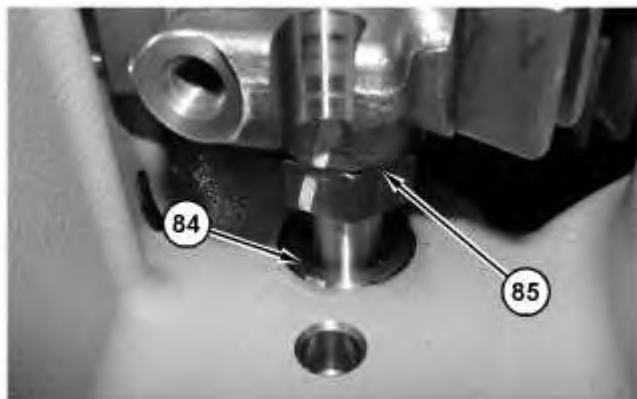


Illustration 47

g06067292

46. Use a brass punch to push guide sleeve (84) downward off shifting fork shaft (85), taking precautions not to damage the shaft.
47. Repeat step 46 for the opposite side.

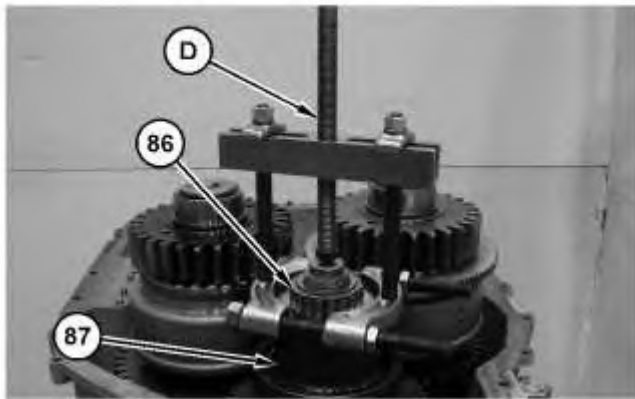


Illustration 48

g06091655

48. Use Tooling (D) to remove bearing assembly (86) from shaft assembly (87).



Illustration 49

g06067616

49. Remove retaining clip (87) from shaft assembly (87) that secures synchronizer group (89).



Illustration 50

g06067623

50. Use two screwdrivers to help separate synchronizer group (89) from shaft assembly (87). Do not allow the parts of synchronizer group (89) to separate during the removal procedure.



Illustration 51

g06067981

51. Remove blocker ring (90) and clutch body ring (91) from piston assembly (93).



Illustration 52

g06091072

52. Remove retaining ring (92) from piston assembly (93).

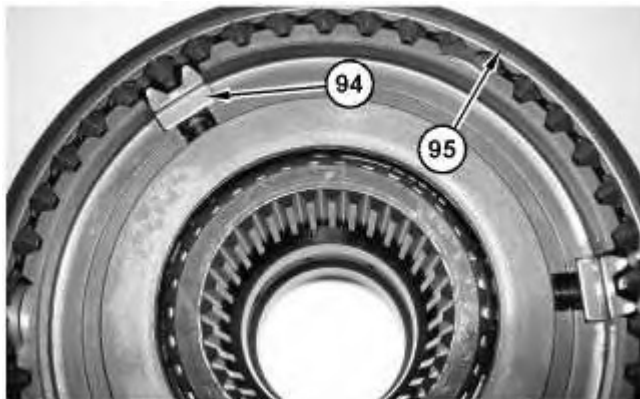


Illustration 53

g06068040

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