

Product: VIBRATORY COMPACTOR

Model: CS54B VIBRATORY COMPACTOR 5M4

Configuration: CS54B, CP54B Vibratory Soil Compactor 5M400001-UP (MACHINE) POWERED BY C4.4 Engine

## Disassembly and Assembly

### CP54B, CS54B and CS64B Vibratory Soil Compactors Machine Systems

Media Number -UENR0175-03

Publication Date -01/03/2017

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i06944975

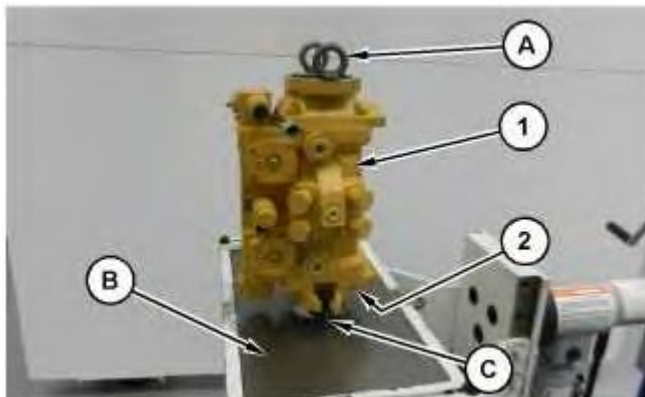
## Piston Pump (Propel, Vibratory) - Disassemble

SMCS - 3203-015; 5070-015; 5652-015

### Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	421-5662	Lifting Eye Assembly	2
B	437-3776	Fixture As.	1
	1U-9127	Adapter Plate	1
	1U-5750	Engine Stand	1
C	FT-2943	Spacer	2
D	1P-0510	Driver Gp	1



 **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.**

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1. Use Tooling (C) to attach the piston pump to Tooling (A) or a suitable fixture.
2. Remove bolts (2). Use Tooling (A) and a suitable lifting device to remove housing (1). The weight of housing (1) is approximately 51 kg (114 lb).



Illustration 2

g06181580

3. Remove control plate (3) from housing (1).



Illustration 3

g06181594

4. Remove rotating group (4).

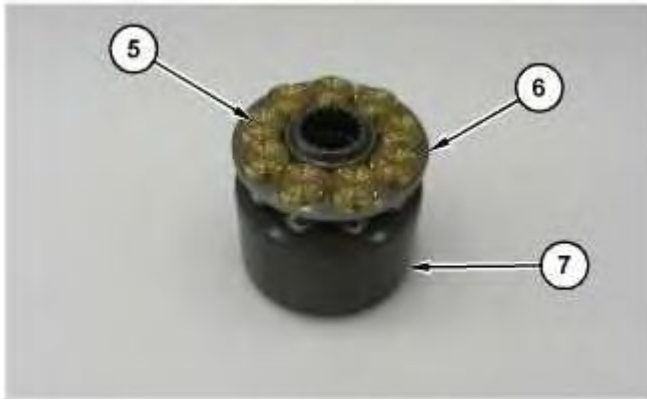


Illustration 4

g06181629

5. Remove piston assemblies (5) and retainer plate (6) from barrel (7).

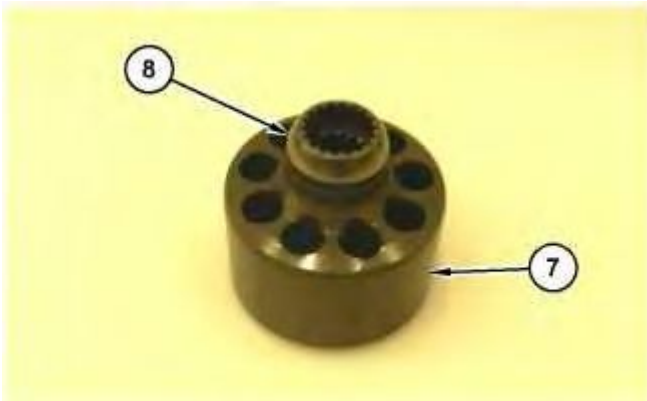


Illustration 5

g06181632

6. Remove bearing (8) from barrel (7).

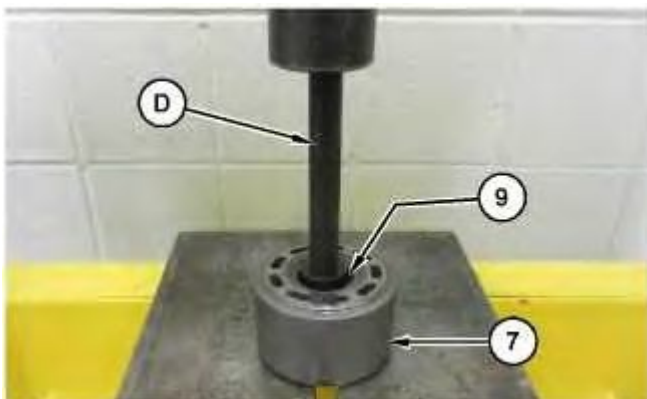


Illustration 6

g06181637

## **WARNING**

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7. Use tooling (D) and a suitable press to remove retaining ring (9) from barrel (7).

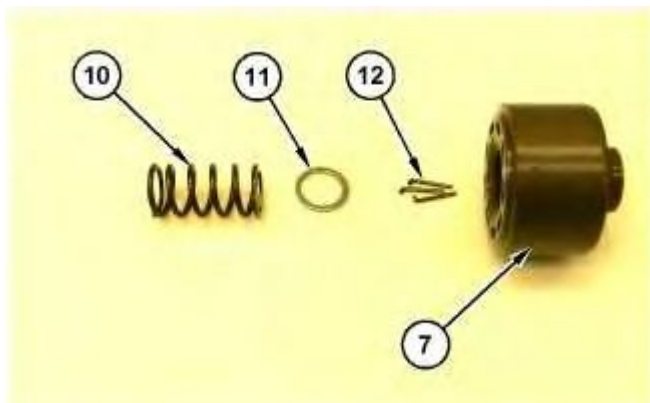


Illustration 7

g06181655

8. Remove spring (10), washer (11), and pins (12) from barrel (7).

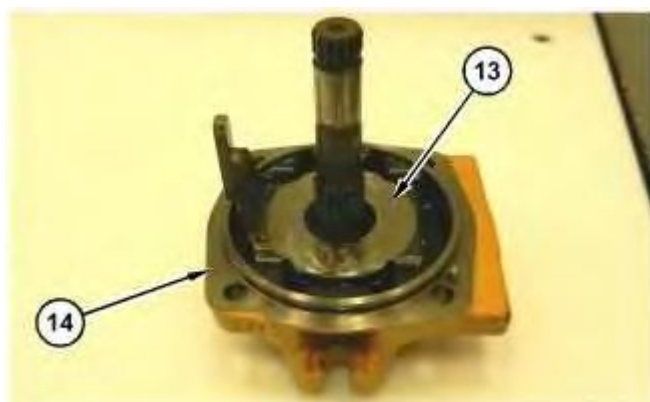


Illustration 8

g06181659

9. Remove swashplate assembly (13) from flange (14).
-

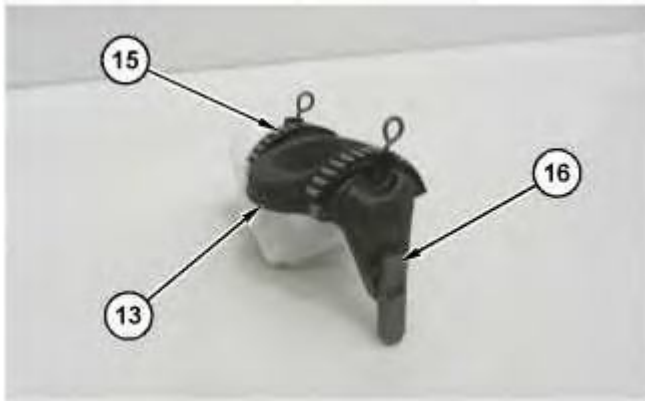


Illustration 9

g06181665

10. Remove bearings (15) and slide (16) from swashplate (13). Note the orientation of slide (16) for assembly purposes.

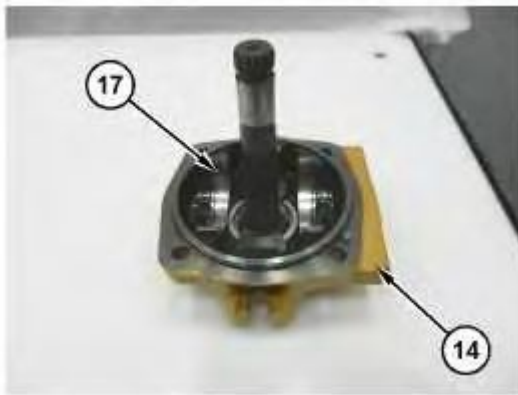


Illustration 10

g06181668

11. Remove bearing races (17) from flange (14).



Illustration 11

g06181673

12. Remove retaining ring (18) and lip seal (19) from flange (14).

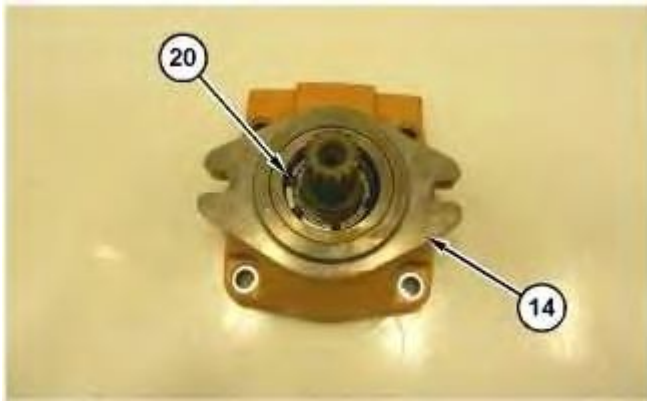


Illustration 12

g06181677

13. Remove retaining ring (20) from flange (14).

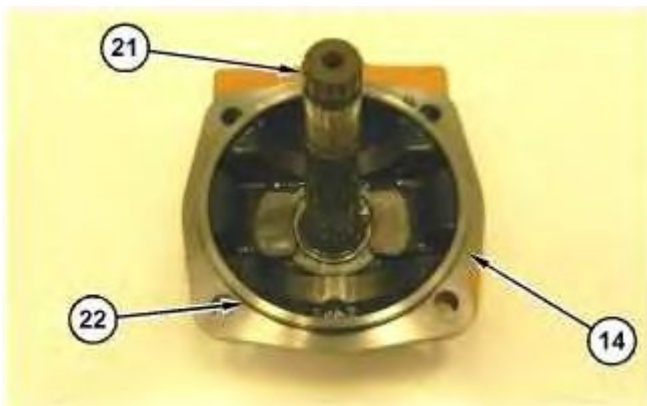


Illustration 13

g06181679

14. Remove O-ring seal (22). Use a soft faced hammer to remove shaft assembly (21) from flange (14).



Illustration 14

g06181681

15. Remove retaining ring (23) from shaft (21).

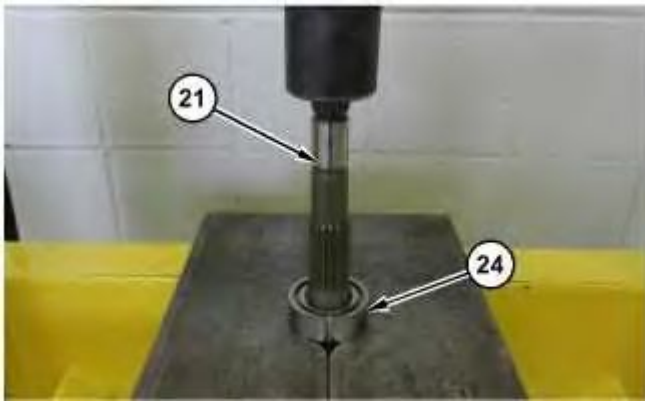


Illustration 15

g06181685

16. Use a suitable press to remove bearing (24) from shaft (21).

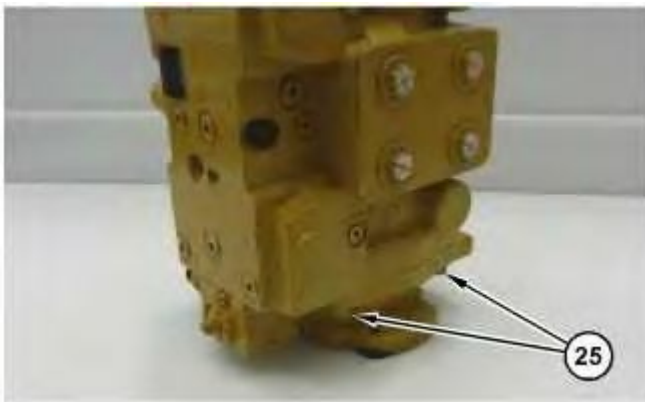


Illustration 16

g06181986

17. Remove bolts (25).

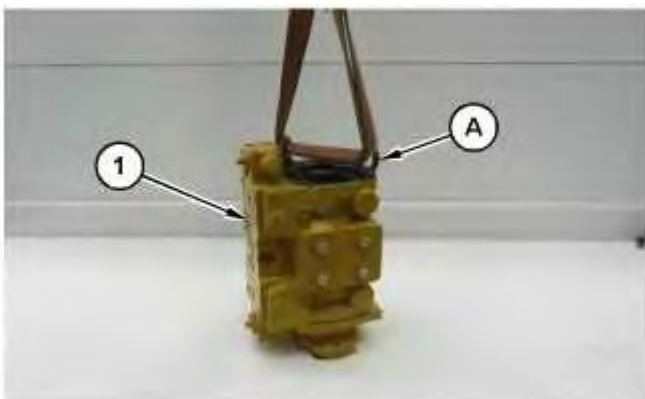


Illustration 17

g06181990

 **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.**

---

18. Use Tooling (A) and a suitable lifting device to remove housing (1). The weight of housing (1) is approximately 40 kg (89 lb).
- 



Illustration 18

g06181998

19. Remove control plate (26).
- 



Illustration 19

g06182004

20. Remove rotating group (27).
-



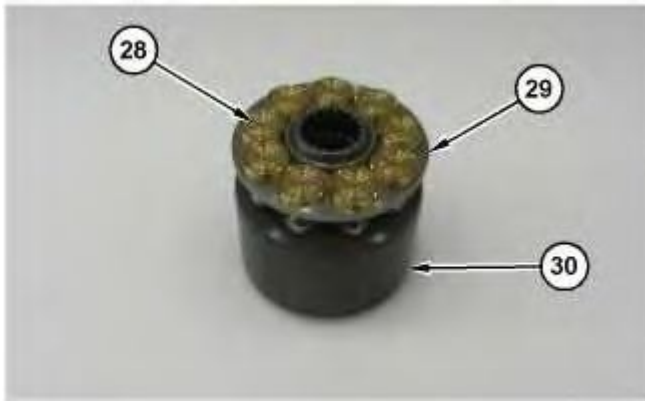


Illustration 20

g06182009

21. Remove piston assemblies (28) and retainer plate (29) from barrel (30).

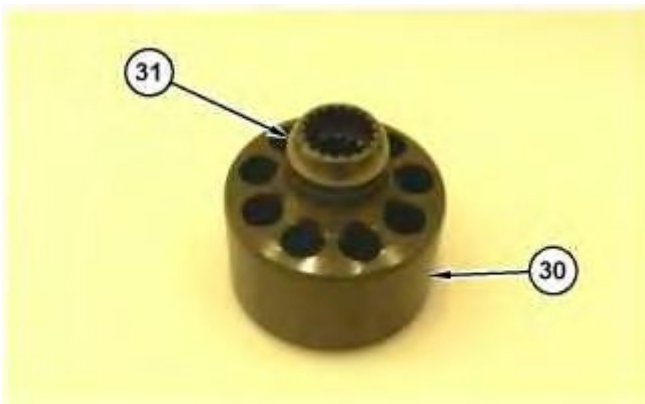


Illustration 21

g06182020

22. Remove bearing (31) from barrel (30).

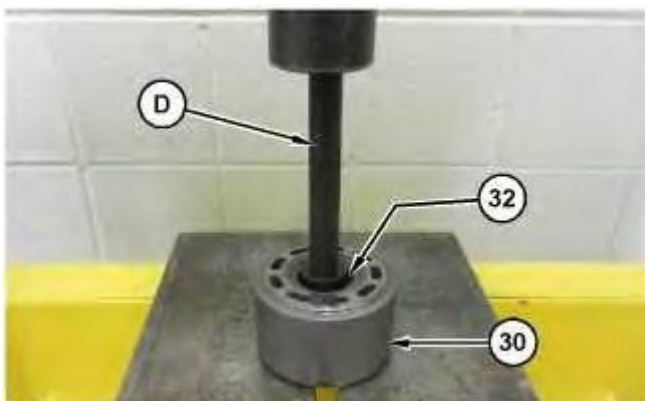


Illustration 22

g06182023

 **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.**

---

23. Use tooling (D) and a suitable press to remove retaining ring (32) from barrel (30).

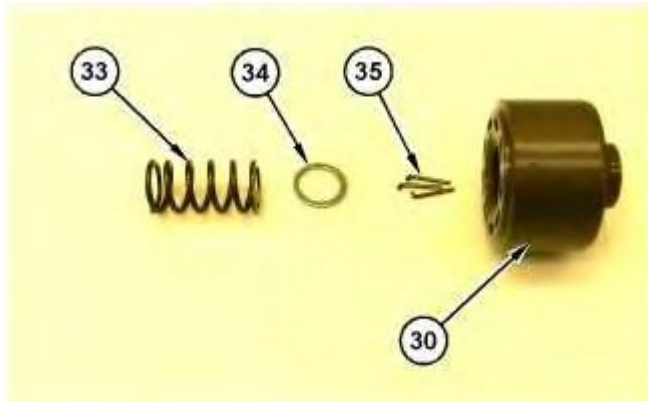


Illustration 23

g06182025

24. Remove spring (33), washer (34), and pins (35) from barrel (30).

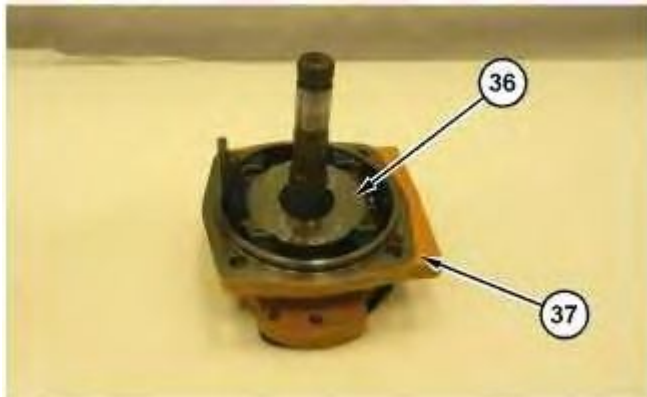


Illustration 24

g06182031

25. Remove swashplate assembly (36) from flange (37).
-

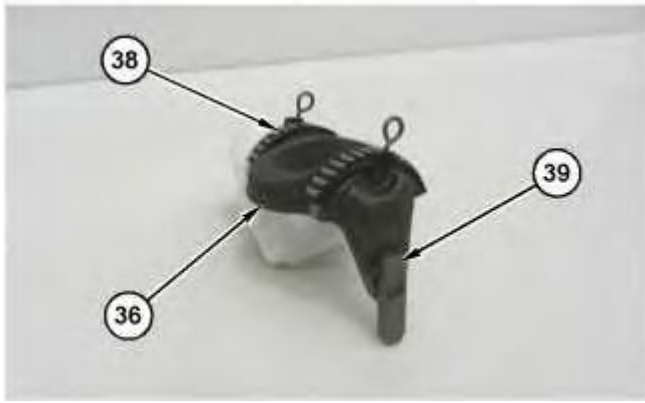


Illustration 25

g06182032

26. Remove bearings (38) and slide (39) from swashplate (36). Note the orientation of slide (39) for assembly purposes.

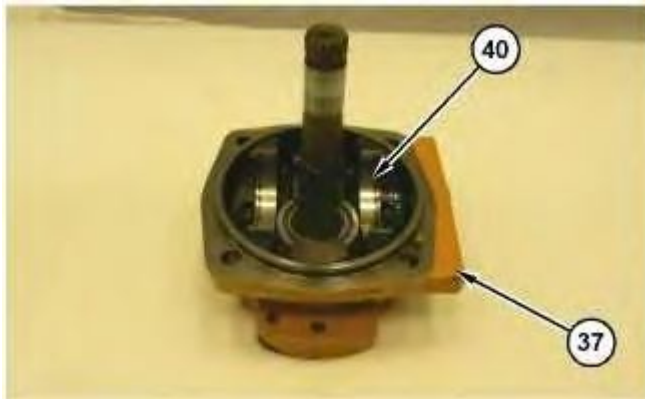


Illustration 26

g06182043

27. Remove bearing races (40) from flange (37).

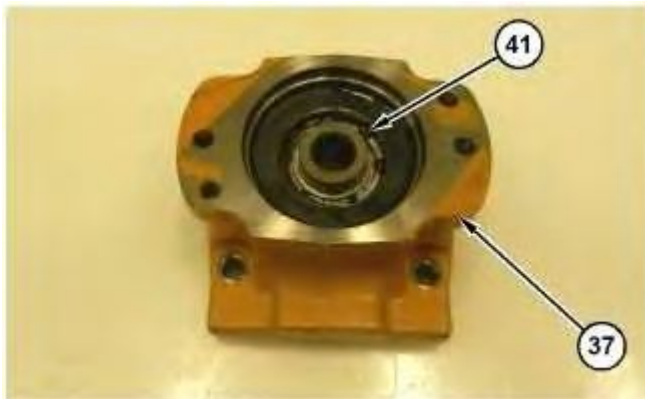


Illustration 27

g06182054

28. Remove retaining ring (41) from flange (37).

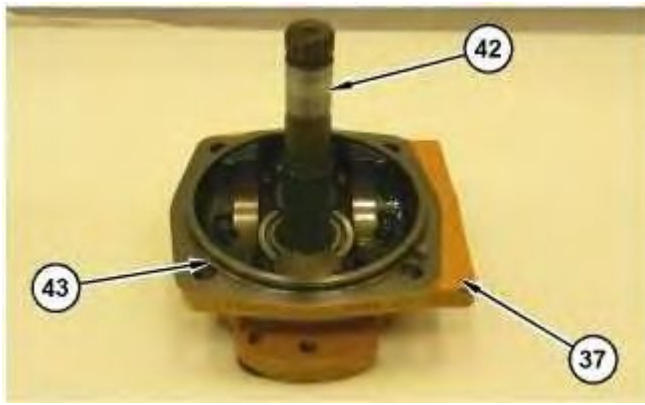


Illustration 28

g06182061

29. Remove O-ring seal (43). Use a soft faced hammer to remove shaft assembly (42) from flange (37).

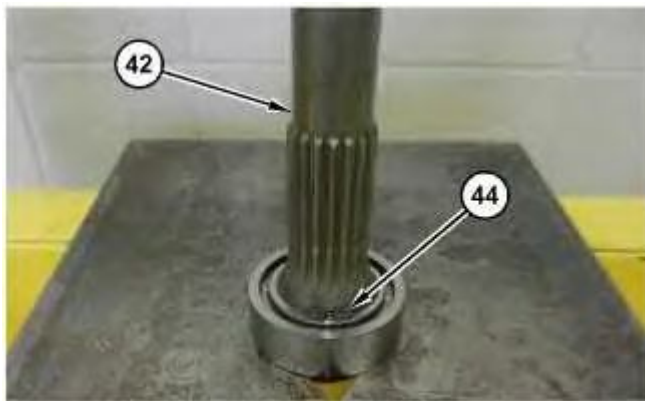


Illustration 29

g06182077

30. Remove retaining ring (44) from shaft (42).



Illustration 30

g06182080

31. Use a suitable press to remove bearing (45) from shaft (42).

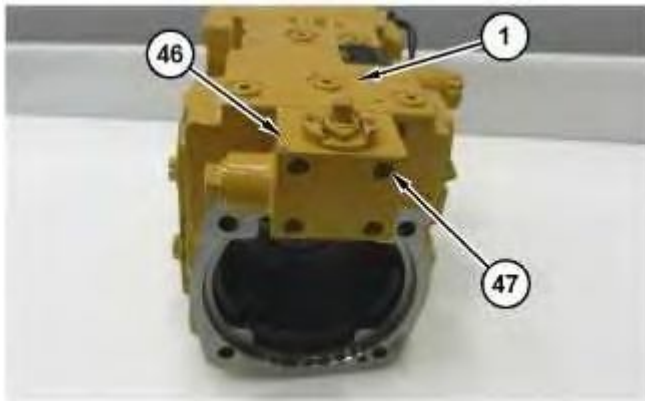


Illustration 31

g06182207

32. Remove bolts (47), valve group (46), and the gasket from housing (1).



Illustration 32

g06182105

 **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.**

33. Remove screw lock (48) from valve group (46).

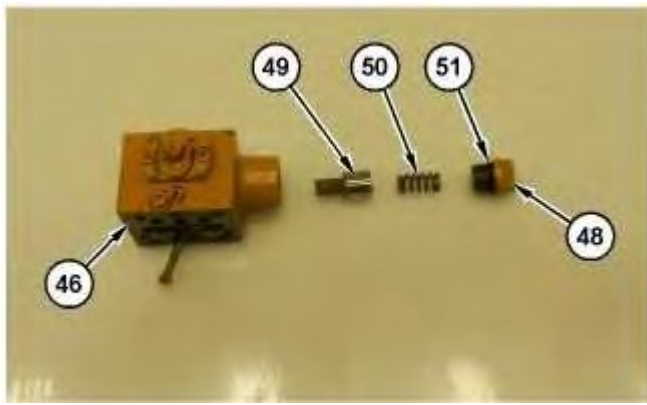


Illustration 33

g06182180

34. Remove O-ring seal (51) from screw lock (48). remove spring (50) and retainer (49) from valve group (46).

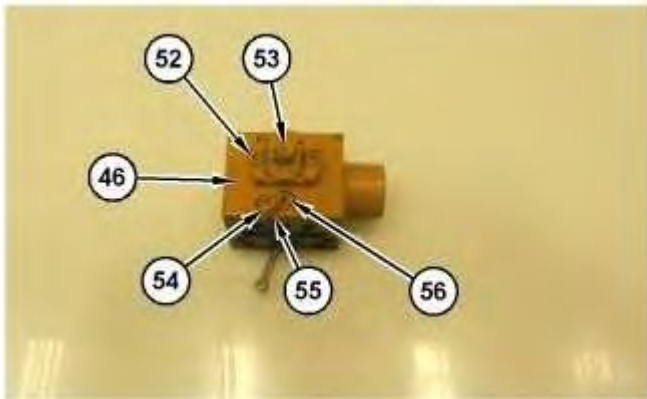


Illustration 34

g06182187

35. Remove bolts (52) and piston (53). Remove bolt (54), retainer (55), and pin (56) from valve group (46).



Illustration 35

g06182190

36. Remove O-ring seals (57) and shim (58) from piston (53).

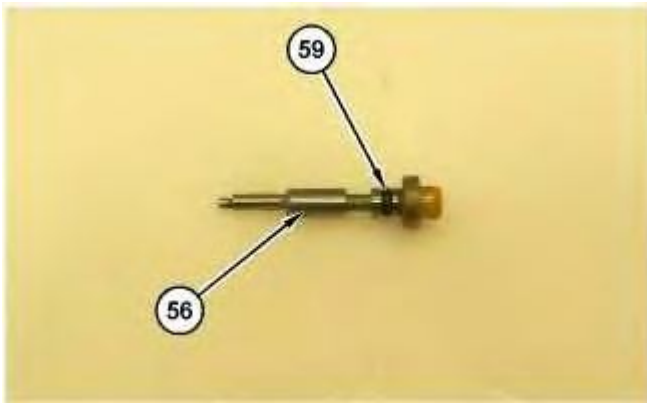


Illustration 36

g06182194

37. Remove O-ring seal (59) from pin (56).

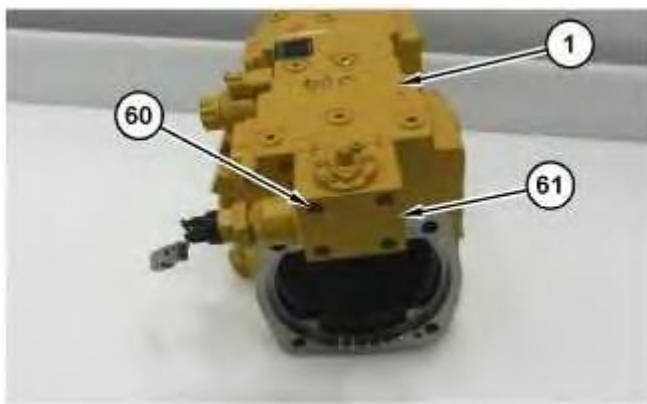


Illustration 37

g06182197

38. Remove bolts (60), valve group (61), and the gasket from housing (1).

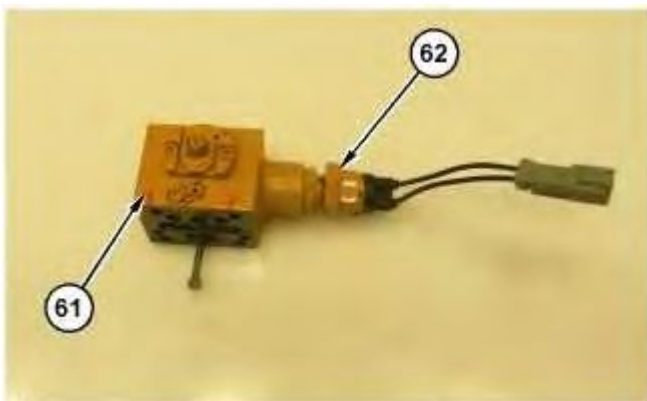


Illustration 38

g06182203

 **WARNING**

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

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39. Remove switch (62) from valve group (61).

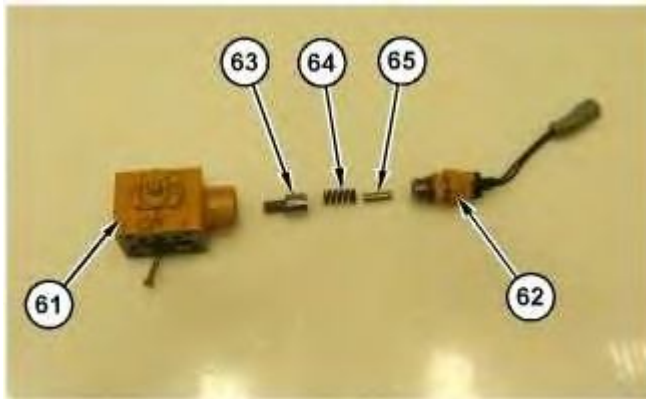


Illustration 39

g06182240

40. Remove pin (65), spring (64), and retainer (63) from valve group (61).

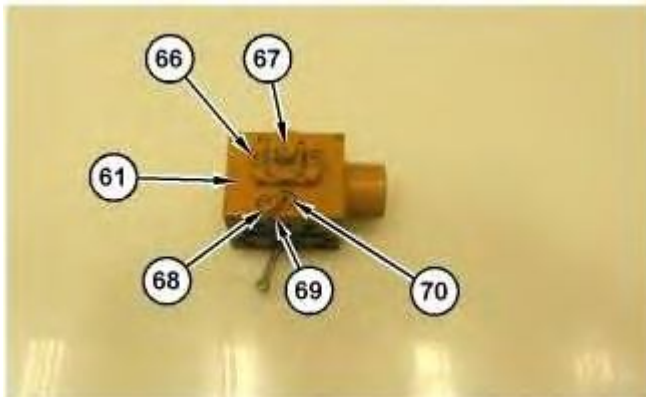


Illustration 40

g06183892

41. Remove bolts (66) and piston (67). Remove bolt (68), retainer (69), and pin (70) from valve group (61).
-



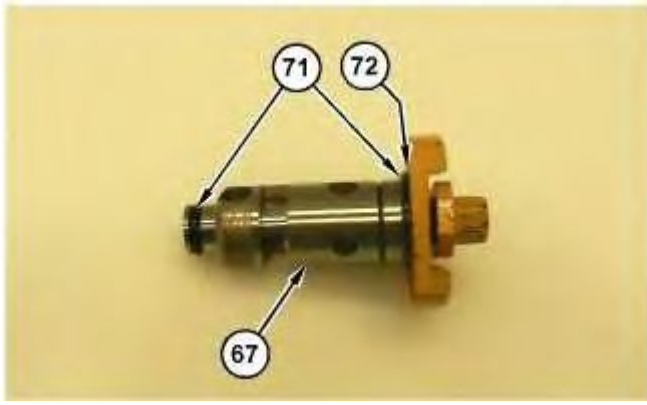


Illustration 41

g06183897

42. Remove O-ring seals (71) and shim (72) from piston (67).

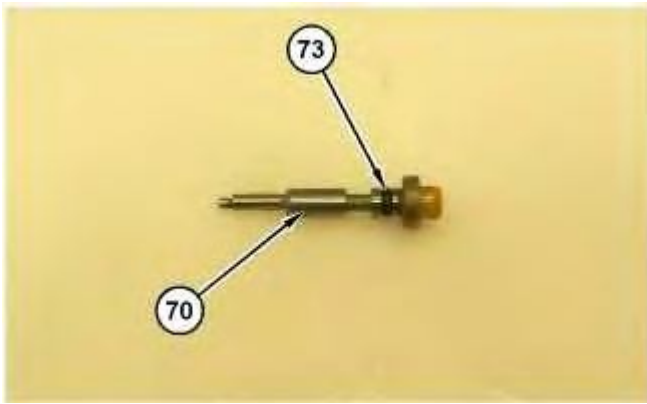


Illustration 42

g06183901

43. Remove O-ring seal (73) from pin (70).

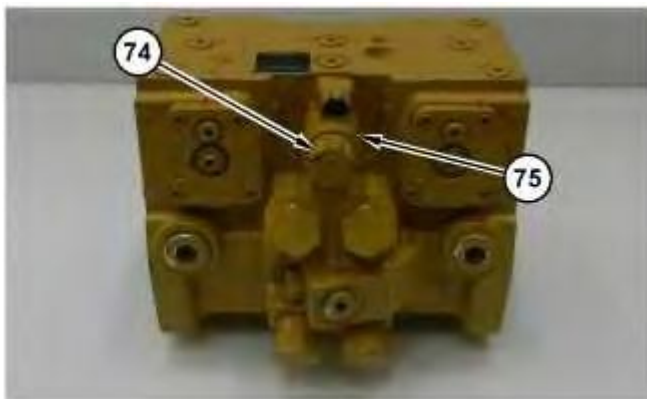


Illustration 43

g06183903



Illustration 44

g06183909

 **WARNING**

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

- 
- 44. Remove nut (74), the O-ring seal, and coil (75).
  - 45. Remove cartridge (76).

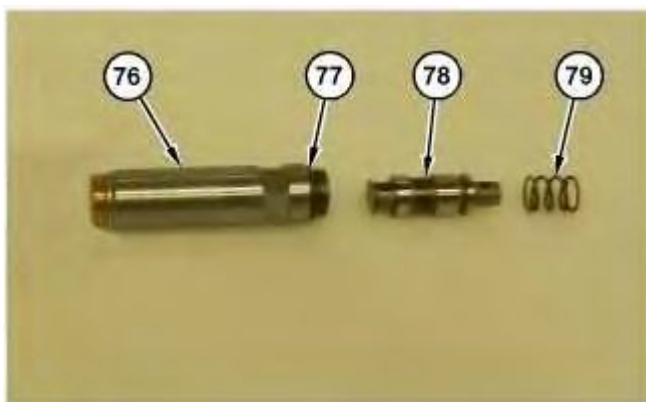


Illustration 45

g06183911

- 
- 46. Remove O-ring seal (77) from cartridge (76). Remove spool (78) and spring (79),
-



Illustration 46

g06183913

 **WARNING**

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47. Remove plug (80).

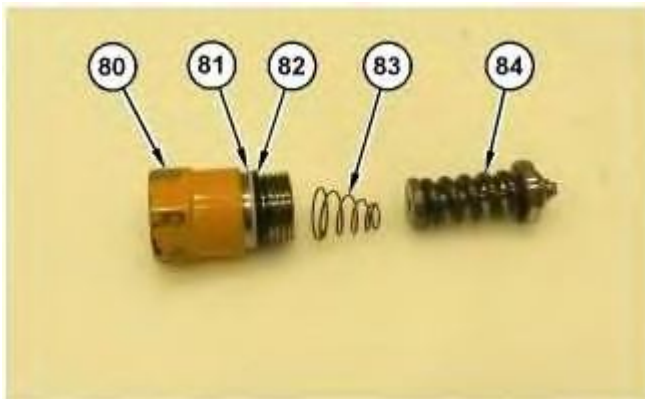


Illustration 47

g06183916

48. Remove back up ring (81), O-ring seal (82), spring (83), and valve assembly (84) from plug (80). Repeat for the other valve assemblies.

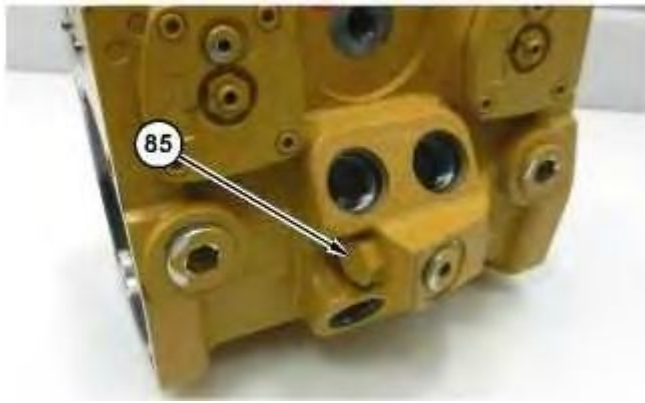


Illustration 48

g06183919

**! WARNING**

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

49. Remove valve (85).

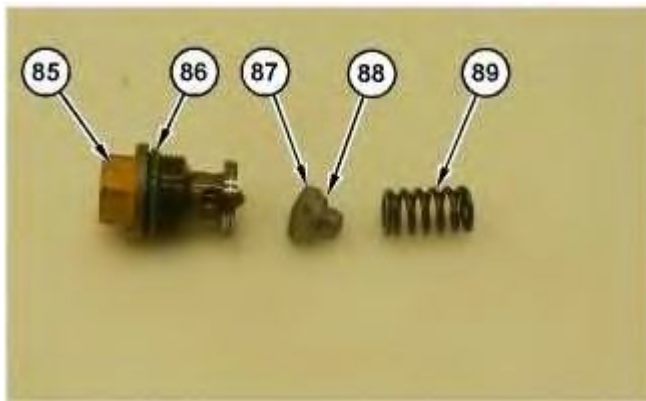
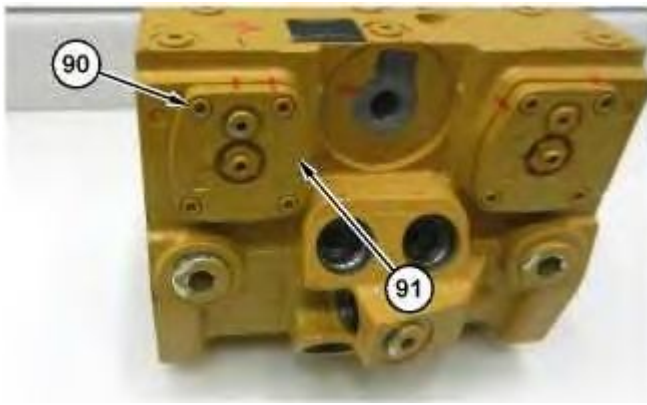


Illustration 49

g06183922

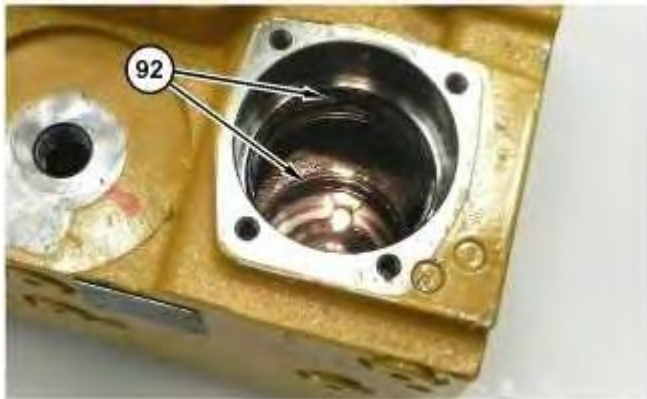
50. Remove O-ring seal (86), guide (87), shims (88), and spring (89) from valve (85).



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Illustration 50

g06183926

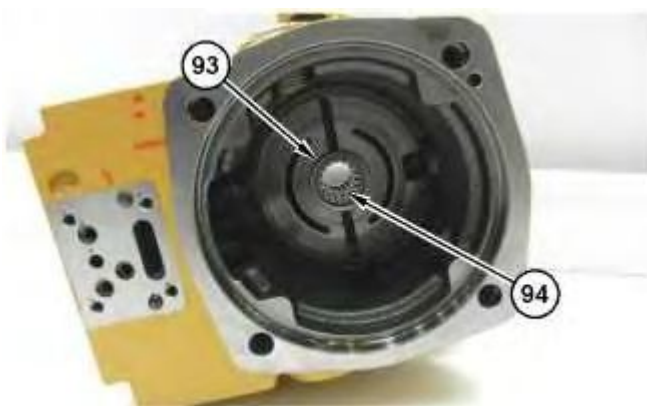


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Illustration 51

g06183928

51. Remove bolts (90), cartridge group (91), and the O-ring seals. Remove ring guides (92). Repeat for the other cartridge group.



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Illustration 52

g06183929

52. Remove bearings (93) and coupler (94).
-

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