Model: CS-34 VIBRATORY COMPACTOR 514

Configuration: CP34, CS34 Vibratory Soil Compactor 51400001-UP (MACHINE) POWERED BY C3.4 Engine

Disassembly and Assembly

CP34 and CS34 Vibratory Soil Compactors Machine Systems

Media Number -UENR6552-05

Publication Date -01/08/2015

Date Updated -30/11/2017

i06891630

Piston Pump (Axle Propel and Drum Propel) - Assemble

SMCS - 5070-016

Assembly Procedure

Table 1

Required Tools				
Tool	Part Number	Part Description	Qty	
A	437-3776	Fixture Assembly	1	
	1U-9127	Adapter Plate	1	
	1U-5750	Engine Stand	1	
D	0S-1627	Bolt	1	
	2J-3506	Full Nut	1	
	8T-4122	Hard Washer	2	
Е	1P-1859	Retaining Ring Pliers	1	

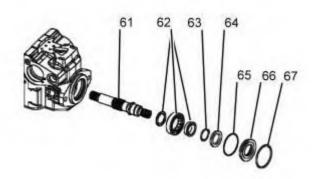


Illustration 1 g03871860

- 1. Raise the temperature of bearing (62).
- 2. Install bearing (62).
- 3. Use Tooling (E) to install retaining ring (63).
- 4. Install shaft assembly (61) and seal (64).
- 5. Install O-ring seal (65).
- 6. Install plate (66).
- 7. Install retaining ring (67).

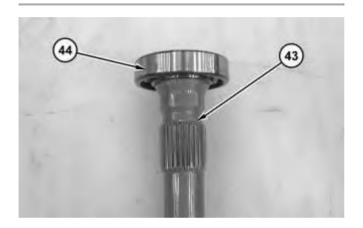


Illustration 2 g03872014

- 8. Raise the temperature of bearing (44).
- 9. Install bearing (44) onto shaft (43).

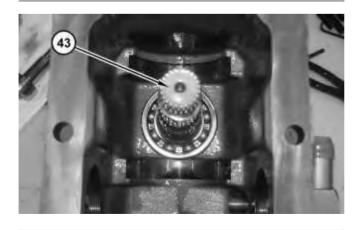


Illustration 3 g03871838

10. Install shaft (43).



Illustration 4 g03871836

11. Install bearings (42) onto swashplate (39).

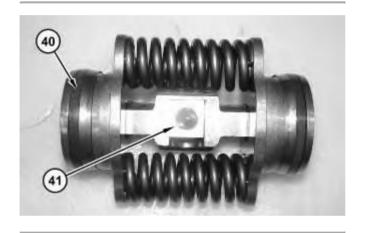


Illustration 5 g03871833

12. Install seals (40) and block (41).

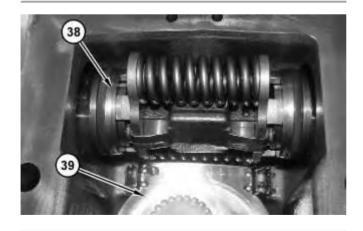


Illustration 6 g03871828

13. Install servo piston assembly (38) and swashplate (39).



Illustration 7 g03871825

14. Install O-ring seal (37) onto servo cylinder (34).

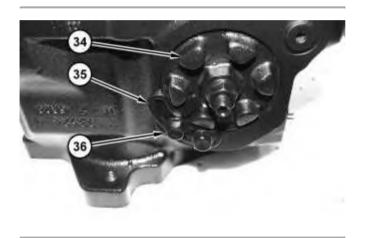


Illustration 8 g03871809

- 15. Install servo cylinder (34). Apply slight pressure to the piston assembly.
- 16. Repeat Step 15 for the opposite side.
- 17. Use a suitable measuring device to center the swashplate. Measure the distance that is from the machined face of the housing to both sides of the swashplate. Adjust servo cylinders (34) to achieve the same distance to the swashplate.
- 18. Install retainer (35), and bolts (36).

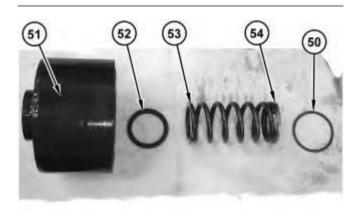


Illustration 9 g03871851

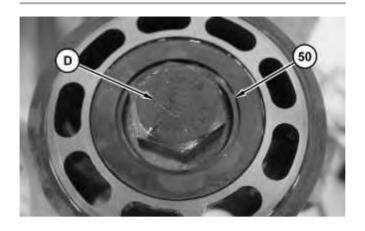


Illustration 10 g03871848

WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

- 19. Install washer (52), spring (53), and retainer (54) into barrel (51).
- 20. Use Tooling (D) to install retaining ring (50).

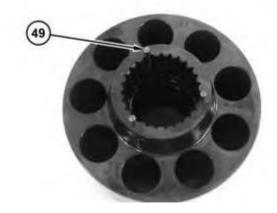


Illustration 11

g03871845

21. Install pins (49).

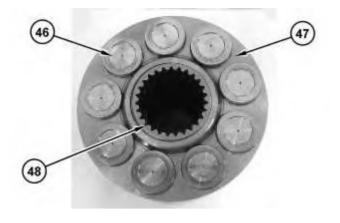


Illustration 12 g03871843

22. Install bearing (48), retainer (47), and pistons (46).

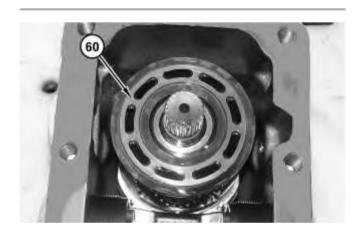


Illustration 13 g03871856

- 23. Install barrel assembly (60).
- 24. Repeat Steps 19 through Steps 22 for barrel assembly (60).

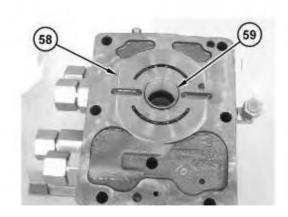


Illustration 14 g03871854

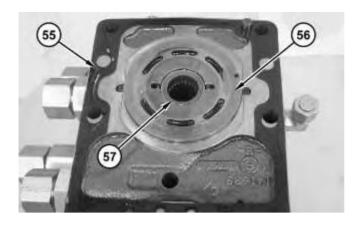


Illustration 15

g03871853

- 25. Install bearings (59).
- 26. Install port plate (56) and gasket (55).
- 27. Install head (58).
- 28. Install coupling (57).

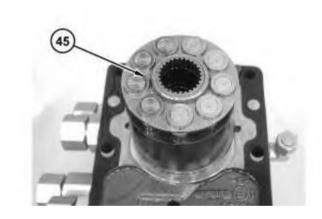


Illustration 16

g03871842

- 29. Repeat Steps 16 through Steps 22 for barrel assembly (45).
- 30. Install barrel assembly (45).

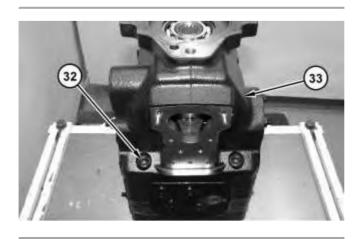


Illustration 17 g03871801

31. Install housing (33) and bolts (32). Tighten bolts (32) to a torque of $110 \pm 10 \text{ N} \cdot \text{m}$ (81 \pm 7 lb ft).

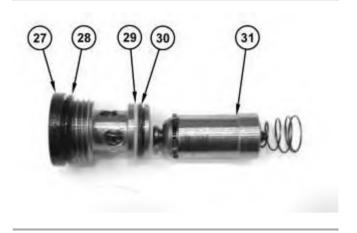


Illustration 18

g03871754

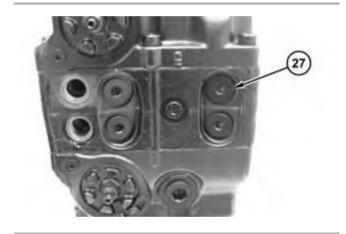


Illustration 19

g03871753



Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

32. Install crossover relief valves (31), back up rings (29), O-ring seals (30), O-ring seals (28), and plugs (27) into the head. Tighten plugs (27) to torque of $80 \pm 10 \text{ N} \cdot \text{m}$ ($60 \pm 7 \text{ lb ft}$).

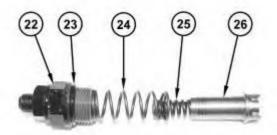


Illustration 20

g03871746

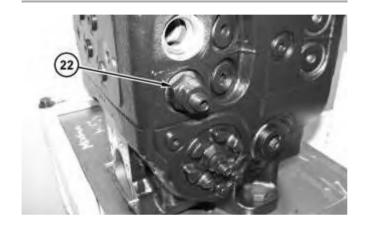


Illustration 21

g03871742

WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

33. Install poppet (26), spring (25), spring (24), O-ring seal (23), and adjustment screw (22).

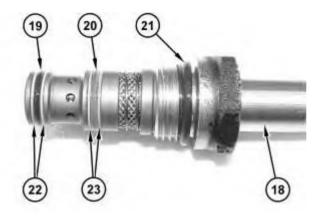


Illustration 22 g03871729

34. Install O-ring seal (19), back up rings (22), O-ring seal (20), back up rings (23), and O-ring seal (21) onto cartridge (18).



Illustration 23 g03871723

35. Install cartridge (18). Tighten cartridge (18) to a torque of 45 N·m (33 lb ft).

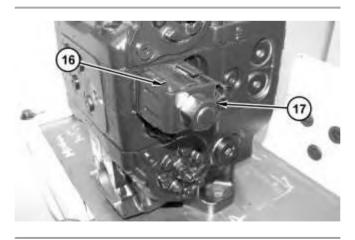


Illustration 24 g03871717

36. Install coil (16) and nut (17). Tighten nut (17) to a torque of 9 N·m (80 lb in).

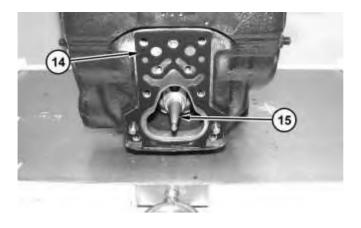


Illustration 25 g03870718

37. Install feedback link (15) and gasket (14). Tighten feedback link (15) to a torque of 25 N·m (220 lb in).

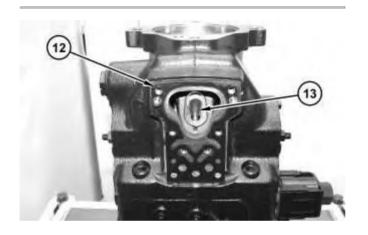


Illustration 26 g03870711

38. Install feedback link (13) and gasket (12). Tighten feedback link (13) to a torque of 25 N·m (220 lb in).

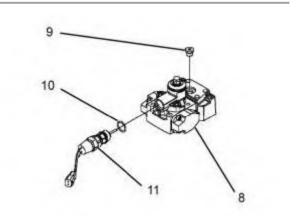


Illustration 27 g03870666

39. Install plug assembly (9), neutral safety switch (11), and o-ring seal (10) onto servo valve (8).

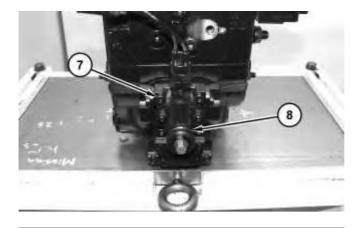


Illustration 28 g03870659

40. Install servo valve (8) and bolts (7). Tighten bolts (7) to a torque of $13 \pm 1 \text{ N} \cdot \text{m}$ (115 ± 9 lb in).

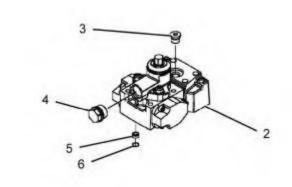


Illustration 29 g03869001

41. Install screen (5) and retaining ring (6) into servo valve (2).

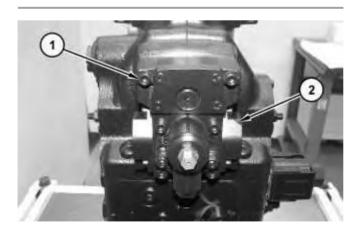


Illustration 30 g03868952

42. Install servo valve (2) and bolts (1). Tighten bolts (1) to a torque of $13 \pm 1 \text{ N} \cdot \text{m}$ (115 ± 9 lb in).

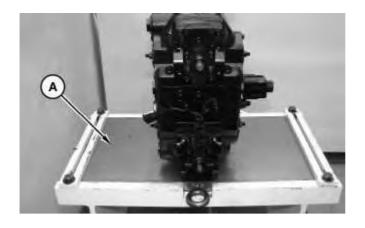


Illustration 31 g03868903

- 43. Remove piston pump from Tooling (A) or a suitable workbench.
- 44. Bench test the pump before installation into the machine.

End By:

a. Install the piston pump.

Model: CS-34 VIBRATORY COMPACTOR 514

Configuration: CP34, CS34 Vibratory Soil Compactor 51400001-UP (MACHINE) POWERED BY C3.4 Engine

Disassembly and Assembly

CP34 and CS34 Vibratory Soil Compactors Machine Systems

Media Number -UENR6552-05

Publication Date -01/08/2015

Date Updated -30/11/2017

i06735388

Piston Pump (Vibratory) - Disassemble

SMCS - 5070-015; 5652-015

Disassembly Procedure

Table 1

Required Tools				
Tool	Part Number	Part Description	Qty	
A	1P-0510	Driver Gp	1	
В	8H-0663	Bearing Puller Gp	1	
С	1P-0074	Slide Hammer Puller Gp	1	
D	147-3497	Spring Compressor	1	

Start By:

a. Remove the piston pump.

Note: Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. Perform disassembly procedures on a clean work surface. Keep components covered and protected always.

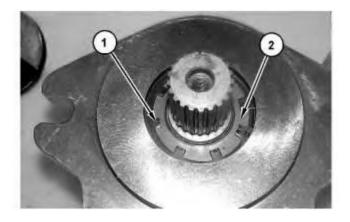


Illustration 1 g06097326

- 1. Remove retaining ring (1).
- 2. Remove lip seal (2).

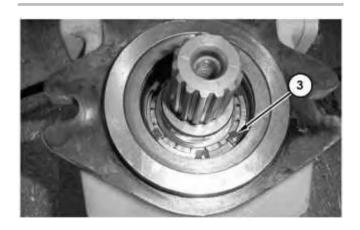


Illustration 2 g06097402

3. Remove retaining ring (3).

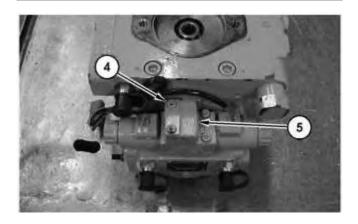


Illustration 3 g06097418

4. Remove bolts (4), valve group (5), and the gasket.

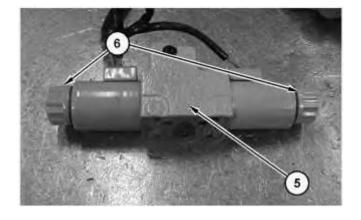


Illustration 4 g06097453

5. Remove nuts (6) and the O-ring seals from valve assembly (5).

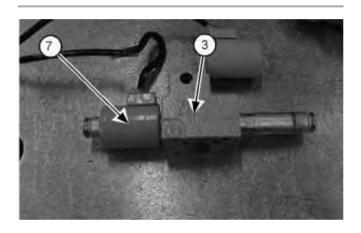


Illustration 5 g01018811

6. Remove coils (7) from valve assembly (3).

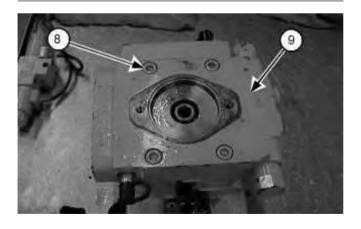


Illustration 6 g01018812



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.

7. Remove bolts (8) and head (9).

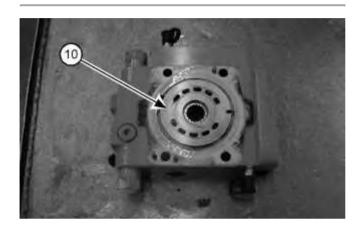


Illustration 7 g01018813

8. Remove plate (10).

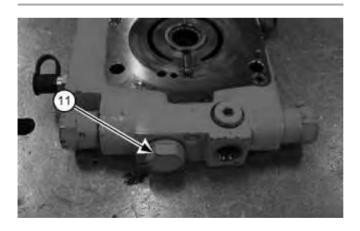


Illustration 8 g01018814

9. Remove plug (11).

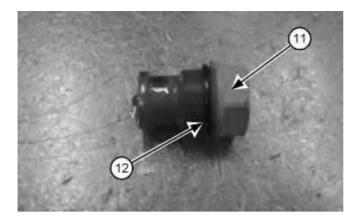


Illustration 9 g01018815

10. Remove O-ring seal (12) from plug (11).

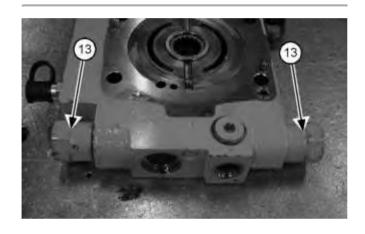


Illustration 10 g01018816

MARNING

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.

11. Remove plugs (13).

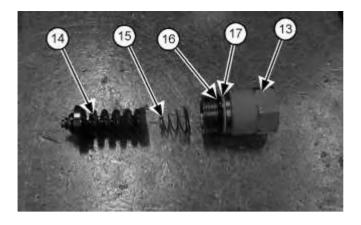


Illustration 11 g01018817

12. Remove backup ring (17), O-ring seal (16), spring (15), and spring (14) from plug (13).

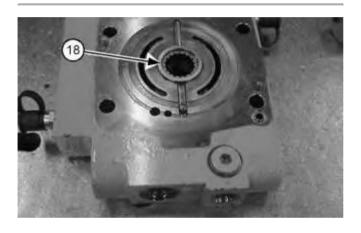


Illustration 12 g01018818

13. Use Tooling (C) to remove bearing (18).



Illustration 13 g01018819

14. Remove barrel (19).

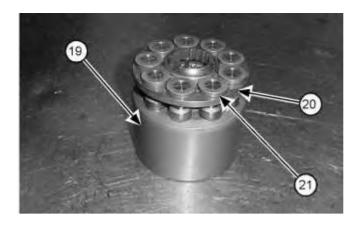


Illustration 14 g01018820

15. Remove pistons (21) and plate (29) from barrel (19).

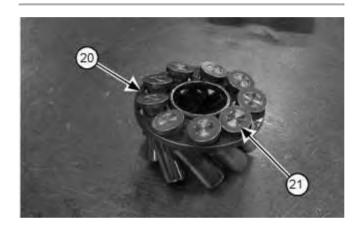


Illustration 15 g01018821

16. Remove piston assemblies (21) from plate (20).

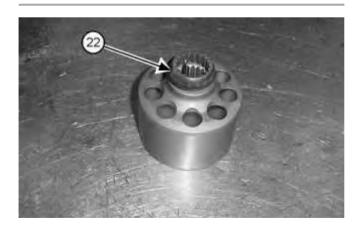


Illustration 16 g01018823

17. Remove retainer (22).

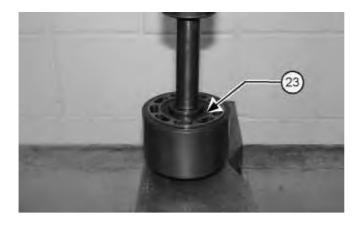


Illustration 17

g01018824

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.

18. Use Tooling (A) and a suitable press to remove retaining ring (23).

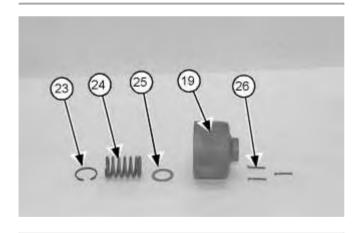


Illustration 18

g01018825

19. Remove retaining ring (23), spring (24), washer (25), and pins (26) from barrel (19).

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