

Product: VIBRATORY COMPACTOR

Model: CP-663E VIBRATORY COMPACTOR AFL

Configuration: CP-663E CS-663E Vibratory Compactor AFL00001-UP (MACHINE) POWERED BY 3056 Engine

Disassembly and Assembly

CP-663E, CS-663E and CS-683E Vibratory Compactors Machine Systems

Media Number -KENR3574-01

Publication Date -01/05/2005

Date Updated -16/05/2005

i01563926

Piston Pump (Vibratory) - Disassemble

SMCS - 5070-015; 5652-015

Disassembly Procedure

Start By:

- A. Remove the vibratory pump. Refer to Disassembly and Assembly, "Piston Pump (Vibratory) - Remove".

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

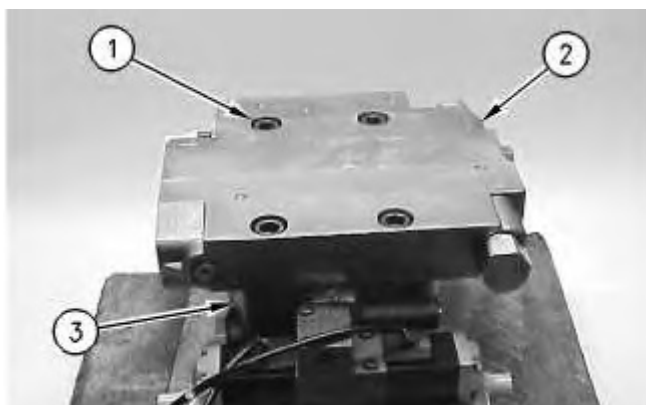


Illustration 1

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1. Remove four bolts (1) and remove head assembly (2) from housing (3) .

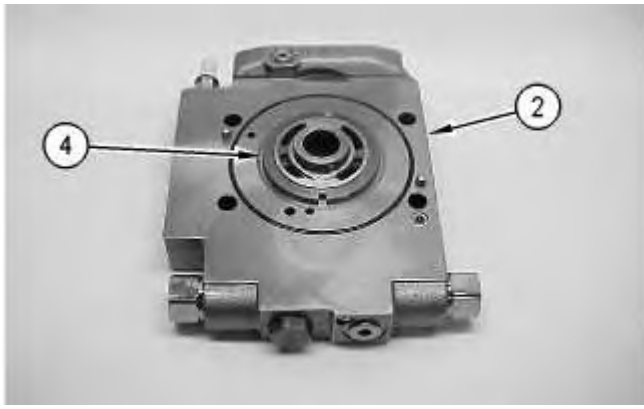


Illustration 2

g00835554

Note: Mark the orientation of port plate (4) for assembly purposes.

2. Remove port plate (4) from head assembly (2) .

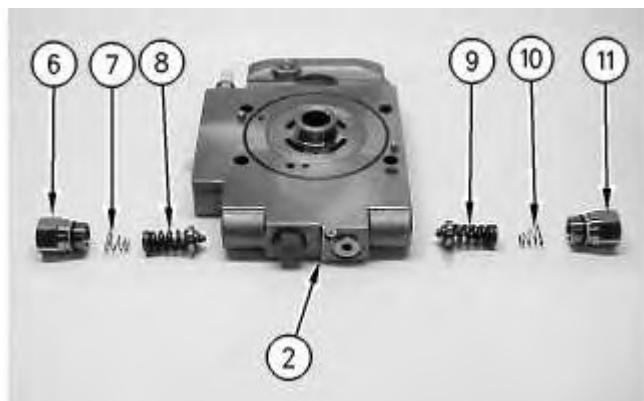


Illustration 3

g00835555

Note: Mark the orientation of pin (5) for assembly purposes.

3. Remove pin (5) from port plate (4) .



4. Remove plug (6), spring (7) and relief valve (8) from head assembly (2) .
5. Remove plug (11), spring (10) and relief valve (9) from head assembly (2) .



Illustration 5

6. Remove O-ring seal (12) and backup ring (13) from plugs (6) and (11) .

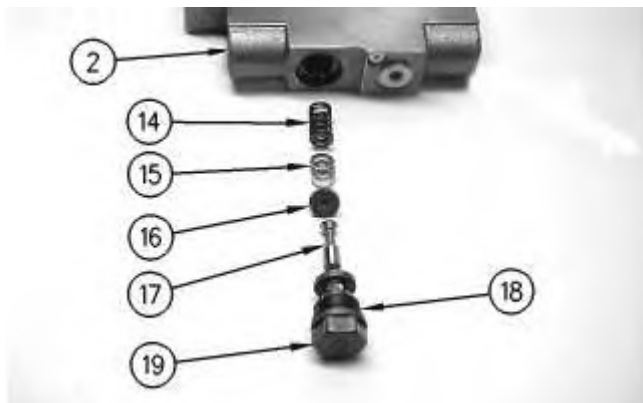


Illustration 6

7. Remove plug (19), poppet valve (17), spring retainer (16), shims (15) and spring (14) from head assembly (2) .
 8. Remove O-ring seal (18) from plug (19) .
-

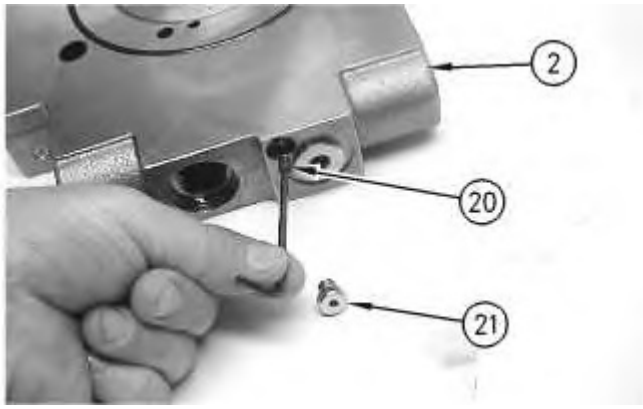


Illustration 7

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9. Remove plug (21) from head assembly (2). Use an allen wrench and remove control orifice (20) from head assembly (2) .

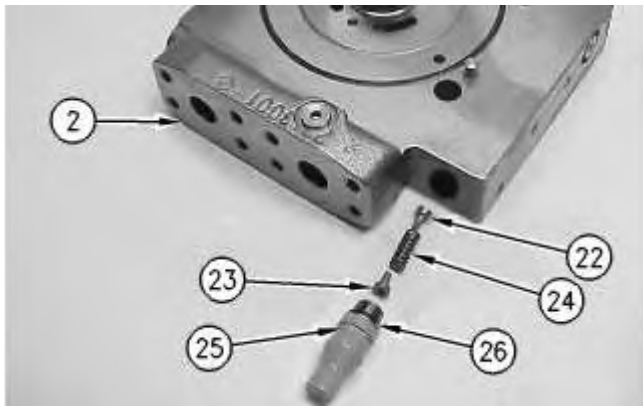


Illustration 8

g00835453

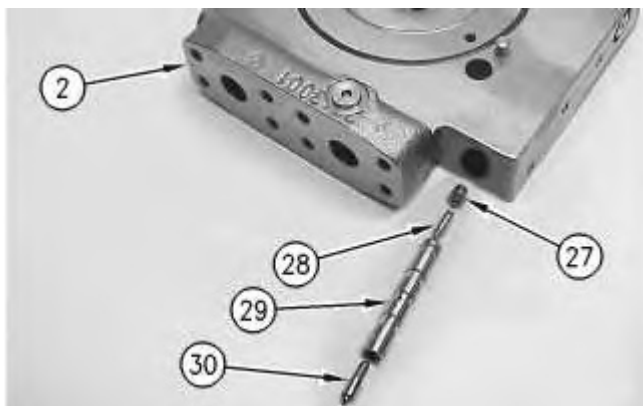


Illustration 9

g00835454

10. Remove plug (25), spring retainer (23), spring (24), spring retainer (22), spool (29) and valve (27) from head assembly (2) .

11. Remove pistons (28) and (30) from spool (29) .
12. Remove O-ring seal (26) from plug (25) .

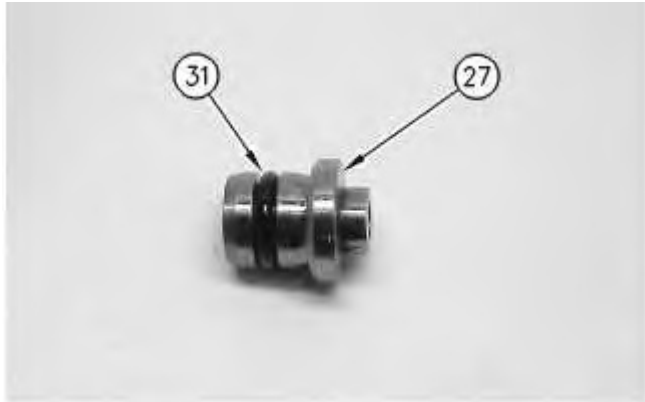


Illustration 10

g00835456

13. Remove O-ring seal (31) from valve (27) .

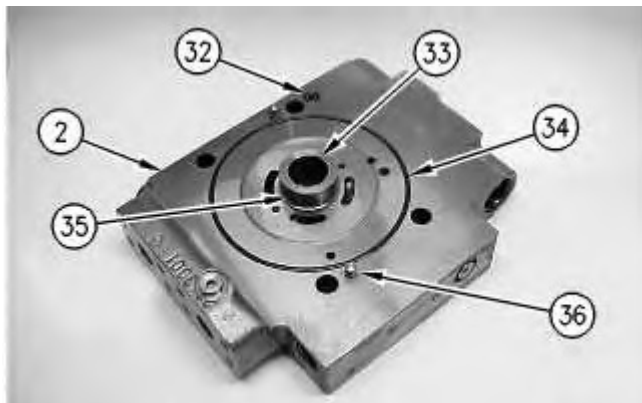


Illustration 11

g00835457

14. Remove O-ring seals (32) and (34) from head assembly (2) .
 15. Remove two dowels (36) from head assembly (2) .
 16. Remove bushing (35) from head assembly (2). Remove bushing (33) from bushing (35) .
-

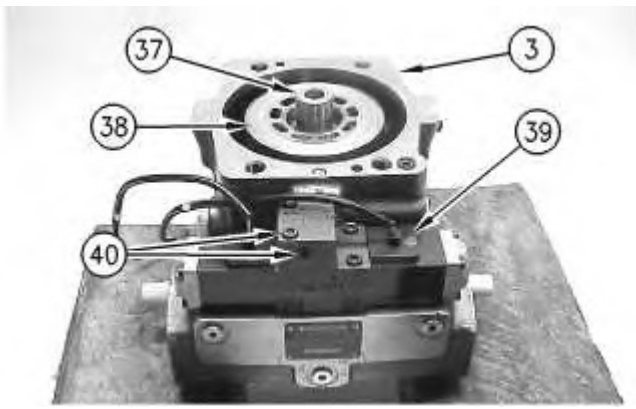


Illustration 12

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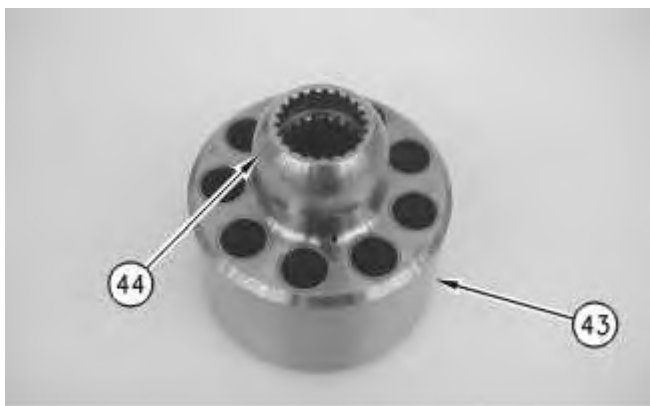
17. Remove five bolts (40). Remove solenoid valve assembly (39) and the seal from housing (3) .
18. Remove rotating assembly (38) from shaft (37) and housing (3) .



Illustration 13

g00835786

19. Remove nine pistons (41) and retainer plate (42) from cylinder block (43) .



20. Remove ball joint (44) from cylinder block (43) .

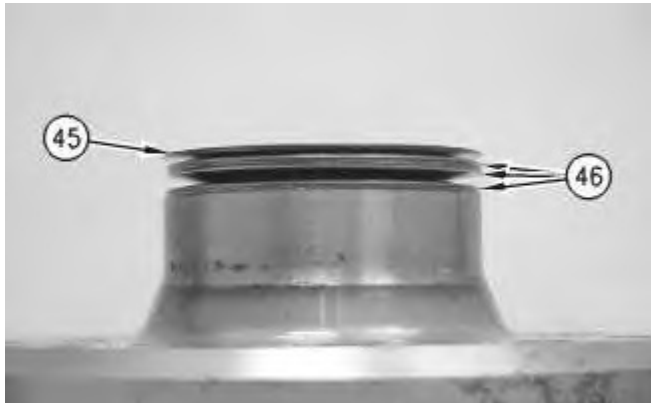


Illustration 15

21. Remove shim (45) and springs (46). Note the position of the springs. The springs must be installed in the same position for proper clearance.

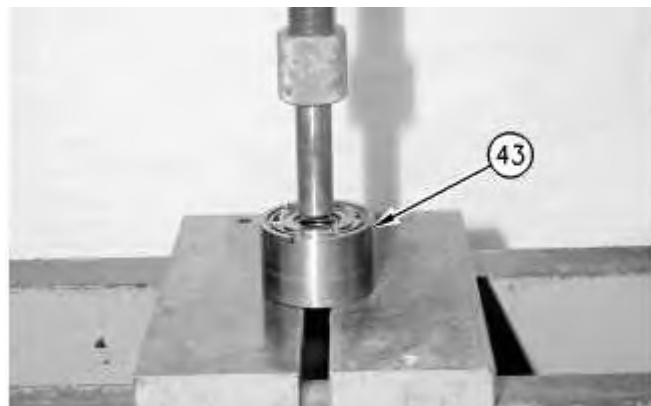
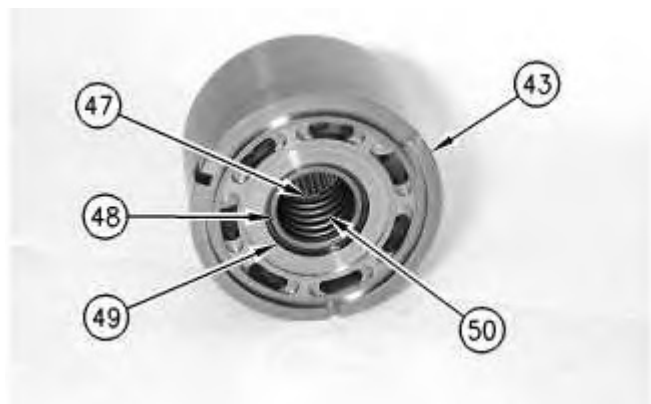


Illustration 16

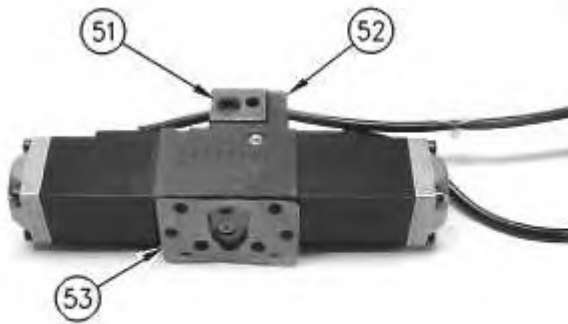




Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

22. Position cylinder block (43) in a press. Install a suitable piece of square steel stock against washer (48). Use the press and apply slight compression on spring (50). Remove retaining ring (49) and slowly release the spring compression.
23. Remove washer (48), spring (50) and washer (47) from cylinder block (43) .



24. Use the following procedure and disassemble solenoid valve assembly (39) .
 - a. Remove O-ring seal (51) and seal (53) from valve body (52) .
-

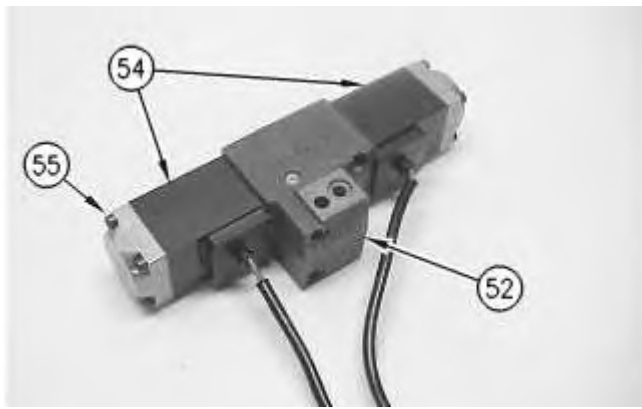


Illustration 19

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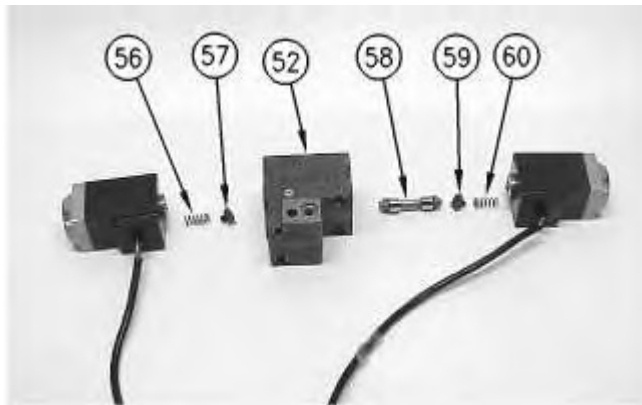


Illustration 20

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- b. Remove four bolts (55) from both sides of the solenoid valve assembly. Remove solenoids (54) from valve body (52) .
- c. Remove spring (56), spring guide (57), piston (58), spring guide (59) and spring (60) from valve body (52) .

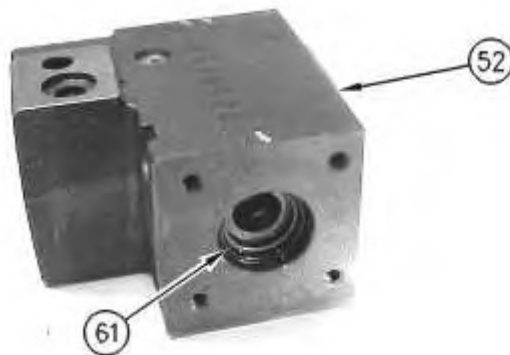


Illustration 21

g00835831

d. Remove O-ring seal (61) from both sides of valve body (52) .



Illustration 22

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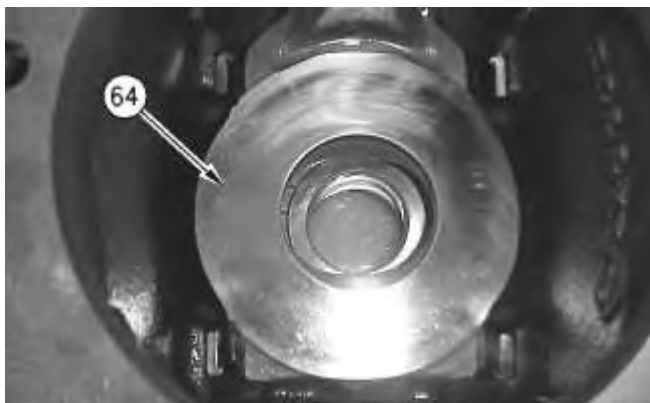
25. Remove retaining ring (62) from housing (3) .



Illustration 23

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26. Remove retaining ring (63) and shaft (37) .



27. Remove swashplate assembly (64) from the housing.

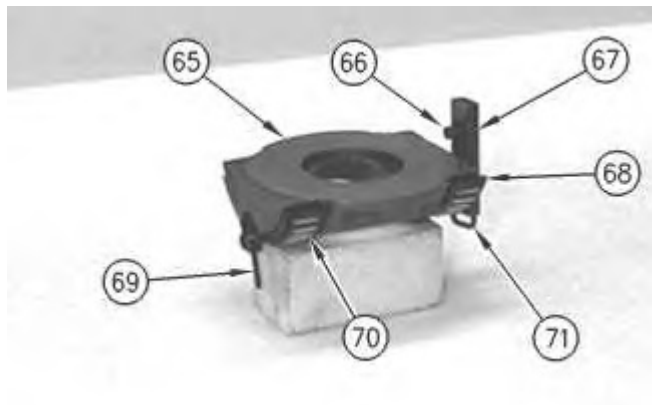


Illustration 25

28. Use the following procedure and disassemble swashplate assembly (64) .
- Remove wire (69) and bearing (70) from cradle (65) .
 - Remove pin joint (66), slide (67), bearing (68) and wire (71) from cradle (65) .
 - Remove the roller from both of the bearings.

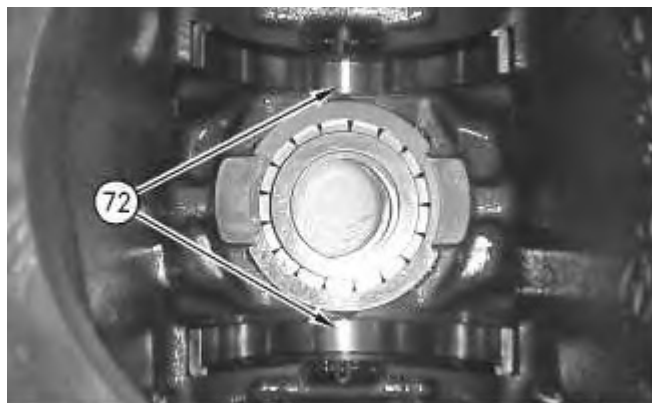


Illustration 26

29. Remove bearing races (72) from the housing.
30. Remove the two pins from the housing, if necessary.
-

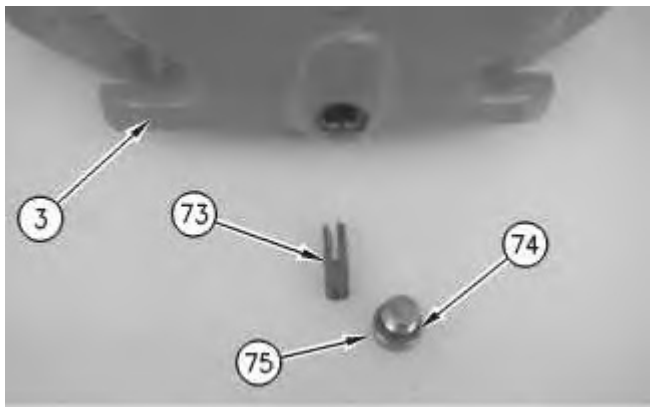


Illustration 27

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31. Remove plug (75) and pin (73) from housing (3) .
32. Remove O-ring seal (74) from plug (75) .

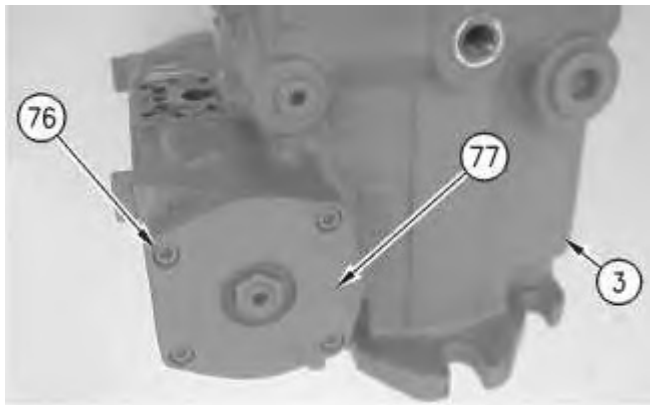


Illustration 28

g00835872

33. Remove four bolts (76) and cover (77) from housing (3) .

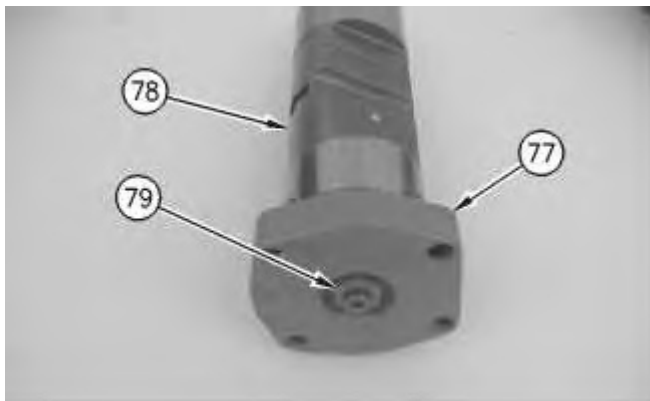


Illustration 29

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34. Remove nut (79) and remove piston (78) from cover (77) .

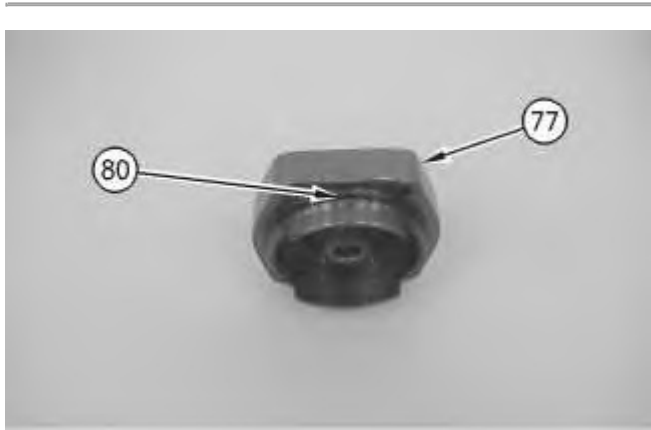


Illustration 30

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35. Remove O-ring seal (80) from cover (77) .

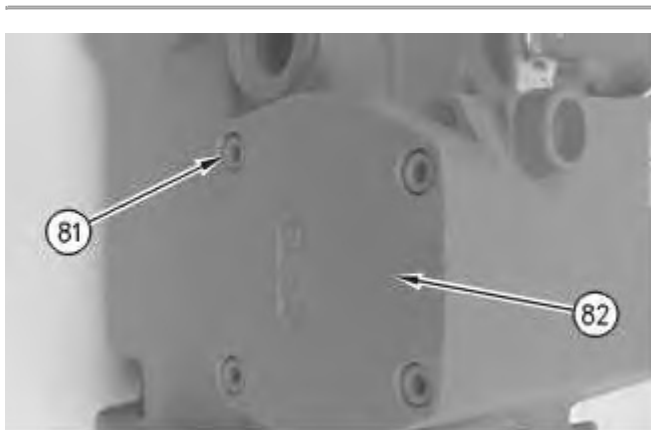
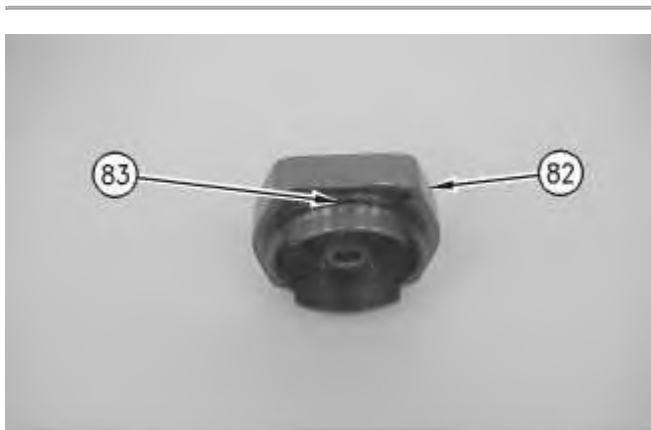


Illustration 31

g00835880

36. Remove four bolts (81) and cover (82) from the housing.



37. Remove O-ring seal (83) from cover (82) .



Illustration 33

38. Remove ring (84) from both sides of housing (3) .

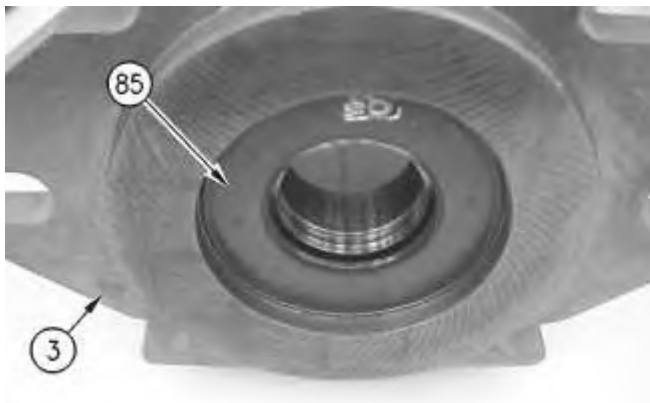


Illustration 34

39. Remove seal (85) from housing (3) .
-

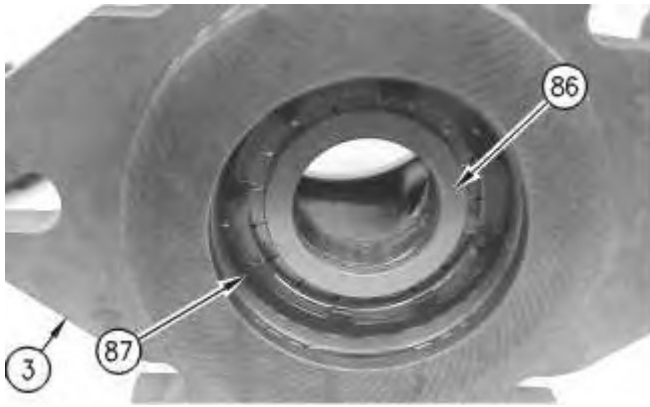


Illustration 35

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40. Remove retaining ring (87) and bearing (86) from housing (3) .

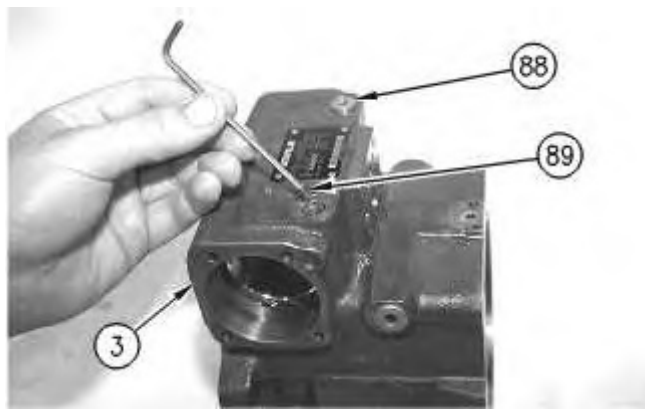


Illustration 36

g00835936

41. Remove two plugs (88) from housing (3). Use an allen wrench and remove two orifices (89) from housing (3) .

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Configuration: CP-663E CS-663E Vibratory Compactor AFL00001-UP (MACHINE) POWERED BY 3056 Engine

Disassembly and Assembly

CP-663E, CS-663E and CS-683E Vibratory Compactors Machine Systems

Media Number -KENR3574-01

Publication Date -01/05/2005

Date Updated -16/05/2005

i01563928

Piston Pump (Vibratory) - Assemble

SMCS - 5070-016; 5652-016

Assembly Procedure

Table 1

Required Tools			
Tools	Part Number	Part Description	Qty
A	9U-5719	Shrink Tubing	1
B	128-2741	Alignment Plug	1
C	128-2745	Test Ring	1
D	128-2744	Measuring Bell	1
E	128-2743	Measuring Hub	1

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

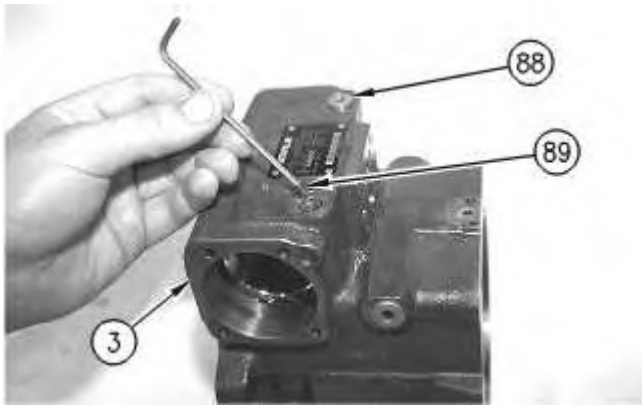


Illustration 1

g00835936

1. Install two orifices (89) in housing (3). Tighten the orifices to a torque of 3 N·m (27 lb in).
2. Install two plugs (88) in housing (3). Tighten the plugs to a torque of 15 N·m (133 lb in).

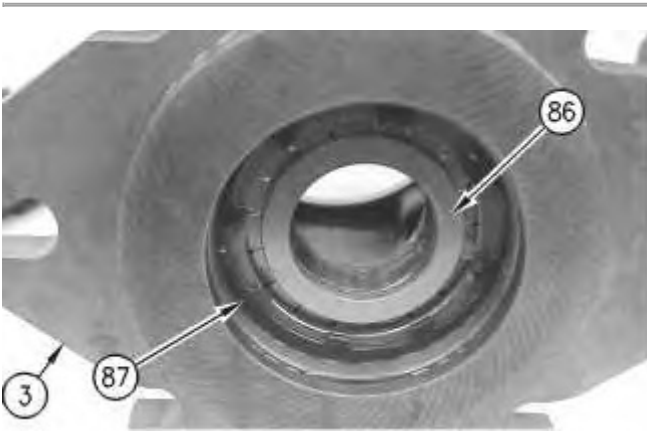


Illustration 2

g00835935

Note: Lubricate bearing assembly with the lubricant that is being used.

3. Install bearing assembly (86) and retaining ring (87) in housing (3) .



Note: Lubricate the sealing lip with the lubricant that is being used.

4. Install seal (85) in housing (3) .



Illustration 4

5. Install ring (84) in both sides of housing (3) .

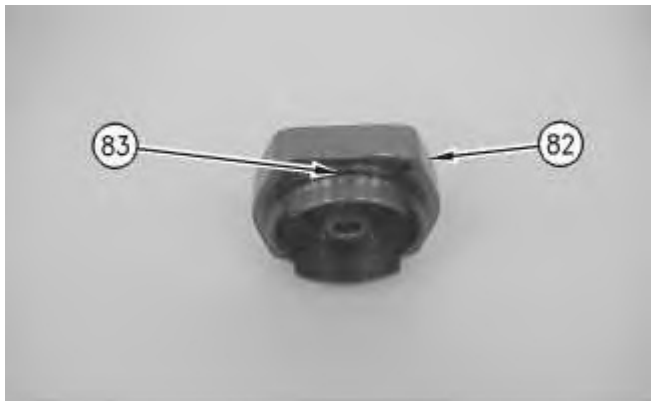


Illustration 5

6. Install O-ring seal (83) on cover (82) .
-

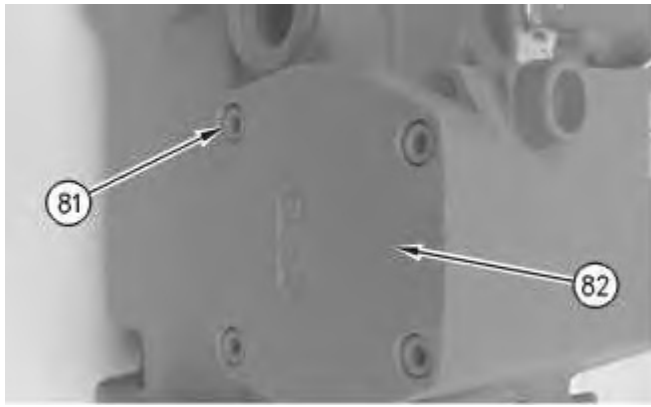


Illustration 6

g00835880

7. Install cover (82) and four bolts (81) on the housing. Tighten the bolts to a torque of 25 N·m (18 lb ft).

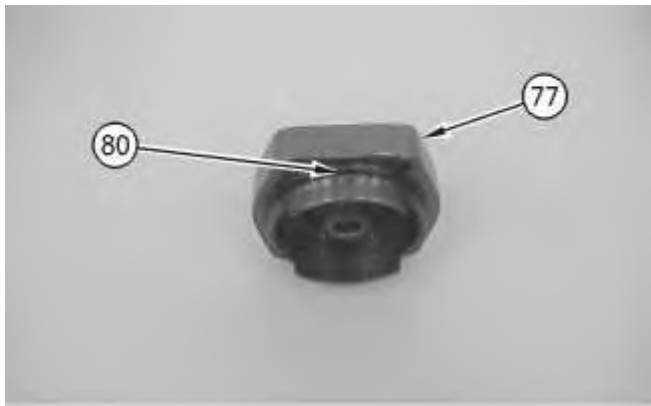


Illustration 7

g00835878

8. Install O-ring seal (80) on cover (77) .

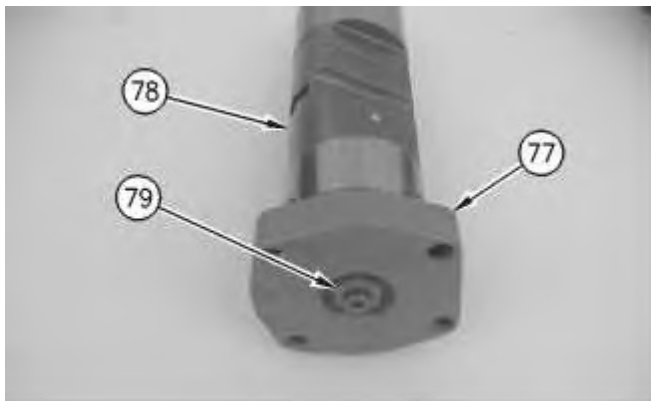


Illustration 8

g00835875

9. Install piston (78) in cover (77) and install nut (79) .

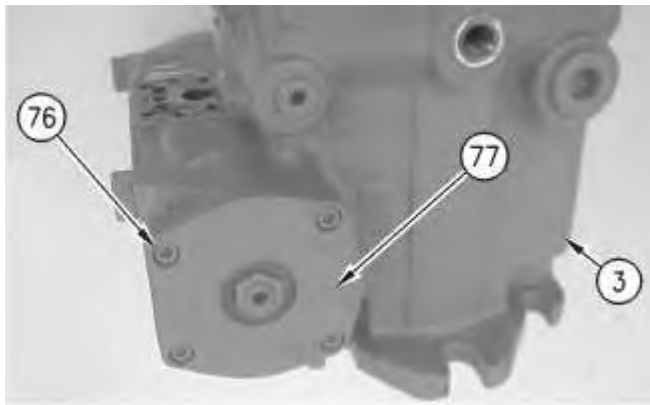


Illustration 9

g00835872

10. Install the piston and cover (77) in housing (3) and install four bolts (76). Tighten the bolts to a torque of 25 N·m (18 lb ft).

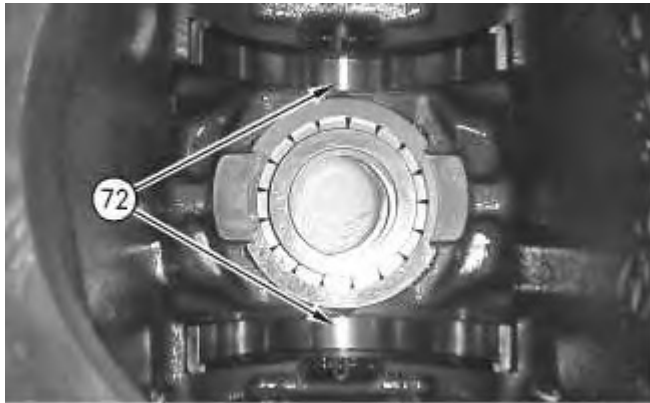


Illustration 10

g00835866

11. Install the two pins in the housing. Install bearing races (72) in the housing.
-

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