

Product: SOIL COMPACTOR

Model: CS44B SOIL COMPACTOR RGE

Configuration: CS44B, CP44B Vibratory Soil Compactor RGE00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly CP44B and CS44B Vibratory Soil Compactor Machine Systems

Media Number -M0078132-00

Publication Date -01/08/2015

Date Updated -22/05/2017

i06976530

Piston Pump (Vibratory) - Disassemble

SMCS - 5070-015; 5652-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	437-3776	Fixture As.	1
	1U-9126	Adapter Plate	1
	1U-5750	Engine Stand	1
B	1P-0510	Driver Gp	1
C	8H-0663	Bearing Puller Gp	1

Start By:

- a. Remove the piston pump.
-

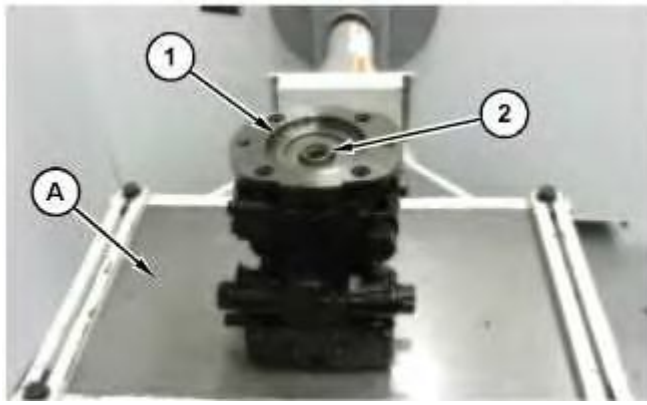


Illustration 1

g06196694

1. Attach the piston pump to Tooling (A) or a suitable fixture.
2. Remove O-ring seal (1) and coupling (2).

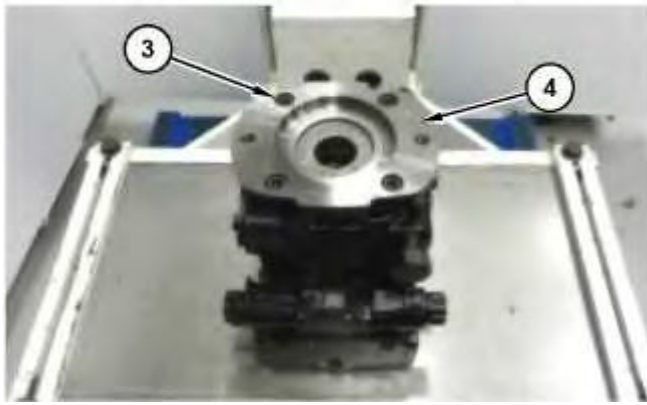


Illustration 2

g06196696

3. Remove bolts (3) and flange assembly (4).

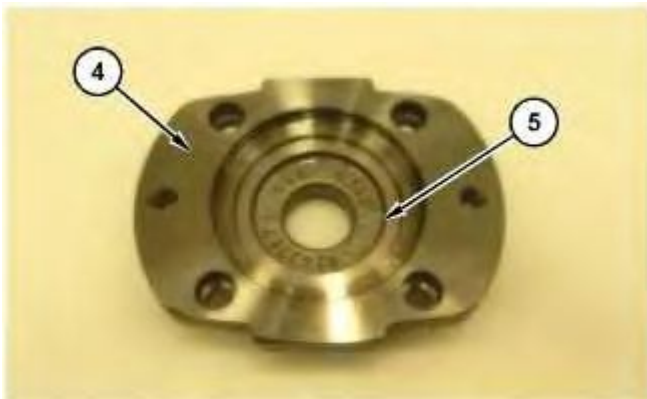


Illustration 3

g06198171

4. Remove block (5) from flange assembly (4).

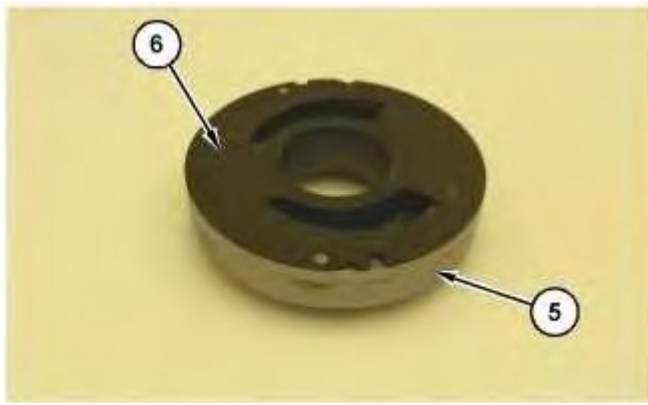


Illustration 4

g06198196

5. Remove wear plate (6) from block (5).

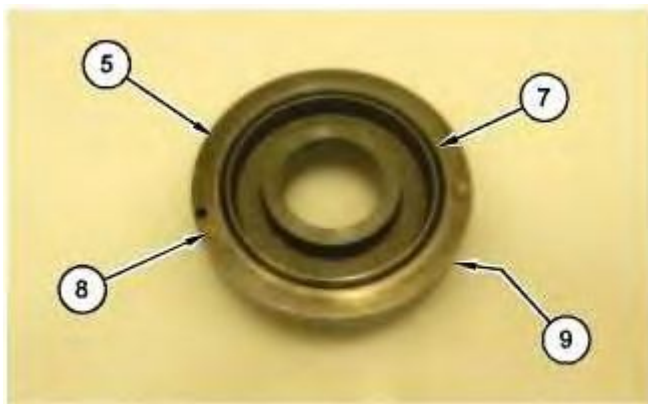


Illustration 5

g06198185

6. Remove O-ring seals (7) and (9) from block (5).
7. Remove locking plugs (8) from block (5).

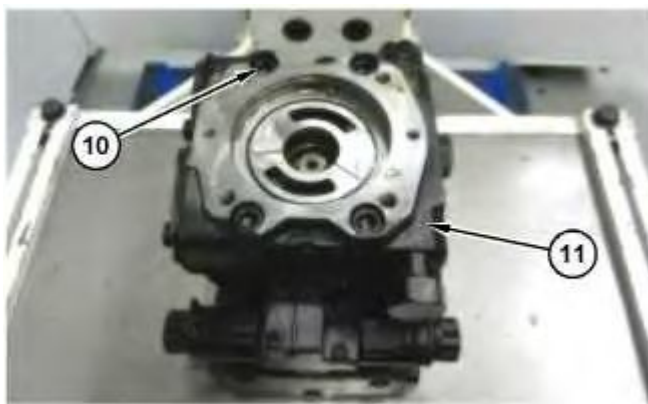


Illustration 6

g06198222

 **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.

8. Remove bolts (10) and head (11).

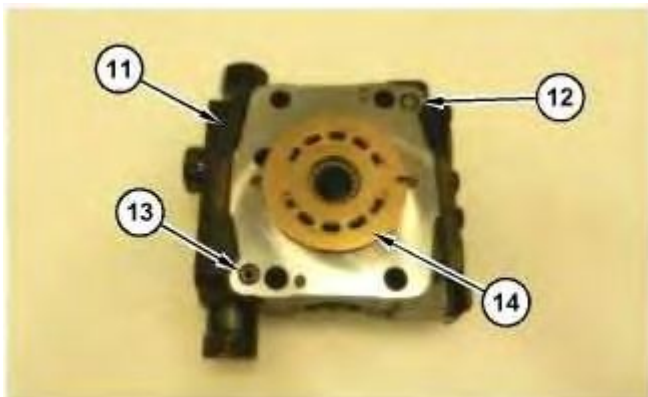


Illustration 7

g06198232

9. Remove O-ring seals (12) and (13) from head (11). Remove control plate (14) from head (11).

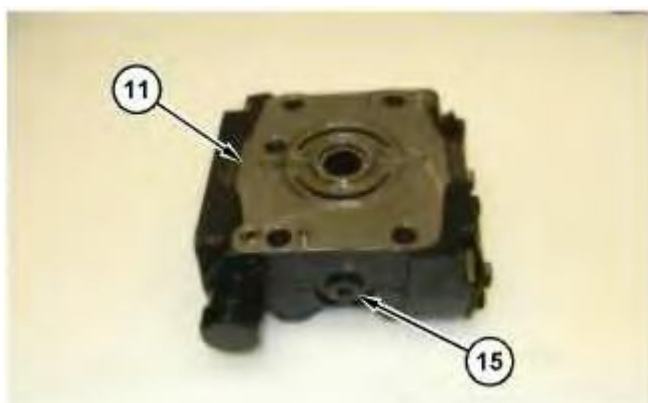


Illustration 8

g06198239

10. Remove plug (15) and the O-ring seal from head (11).
-

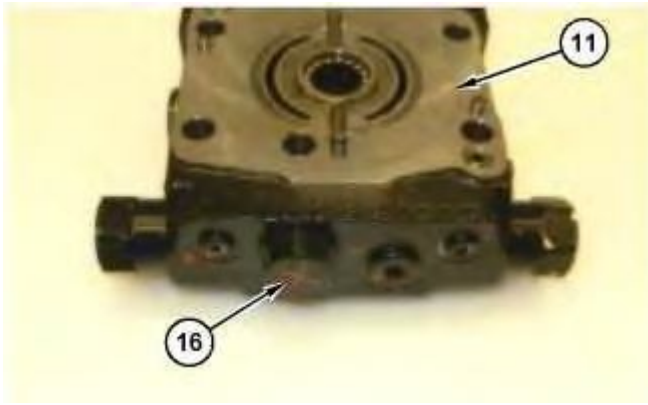


Illustration 9

g06198243

! 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.

11. Remove valve (16) from head (11).

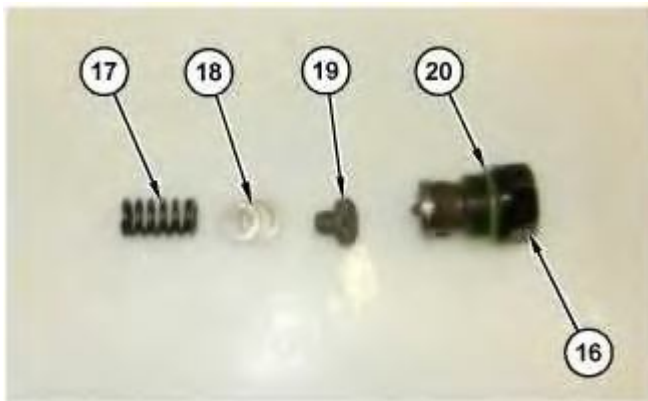


Illustration 10

g06198247

12. Remove O-ring seal (20), guide (19), shims (18), and spring (17) from valve (16).

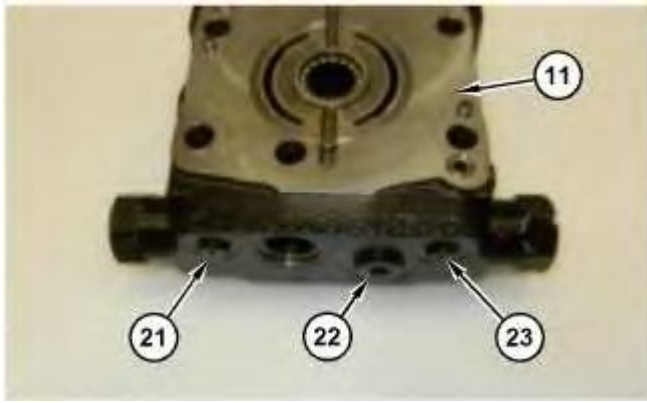


Illustration 11

g06198273

13. Remove plugs (21), (22), and (23) from head (11).



Illustration 12

g06198277

! 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.

14. Remove valves (24) from head (11).

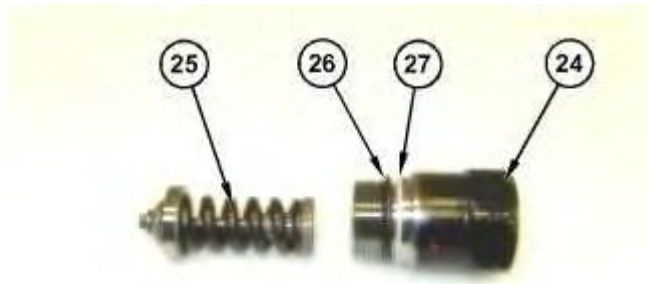


Illustration 13

g06198280

15. Remove spring (25), O-ring seal (26), and back up ring (27) from valves (24).

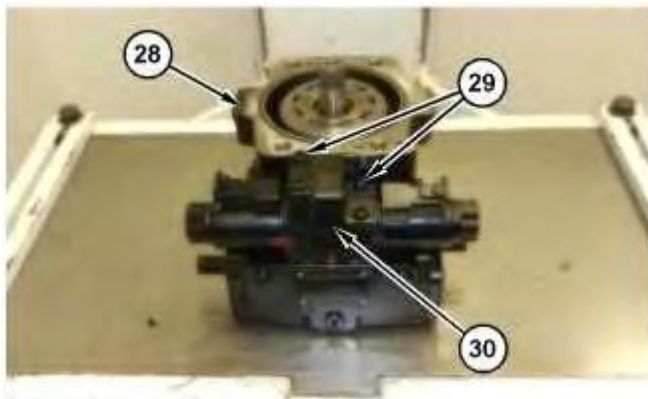


Illustration 14

g06198284

16. Remove bolts (29), valve group (30), and the gasket from housing (28).

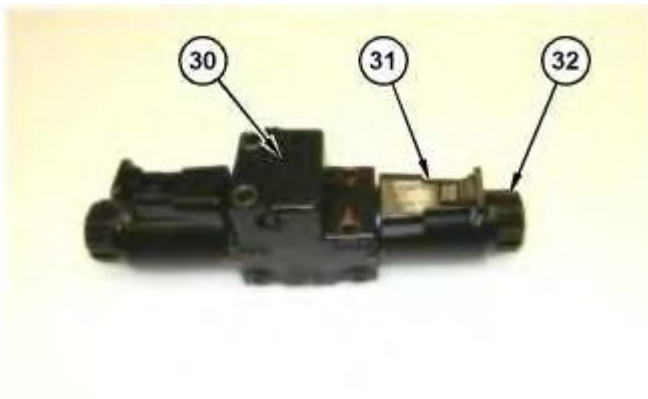


Illustration 15

g06198288

17. Remove nut (32) and the O-ring seal. Remove coil (31) from valve group (30).
-

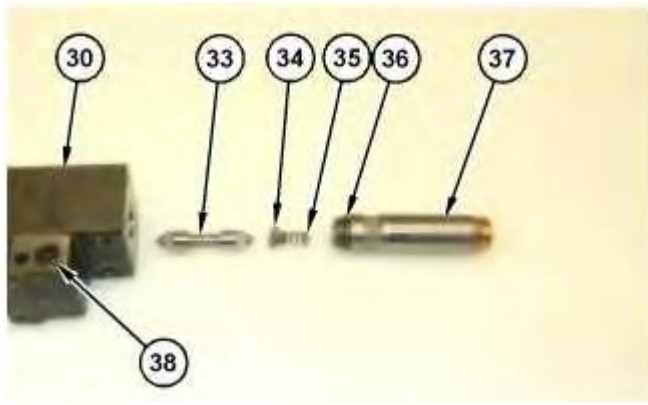


Illustration 16

g06198289

18. Remove cartridge (37), O-ring seal (36), spring (35), guide (34), and spool (33) from valve group (30). Repeat for opposite side.
19. Remove O-ring seal (38) from valve group (30).

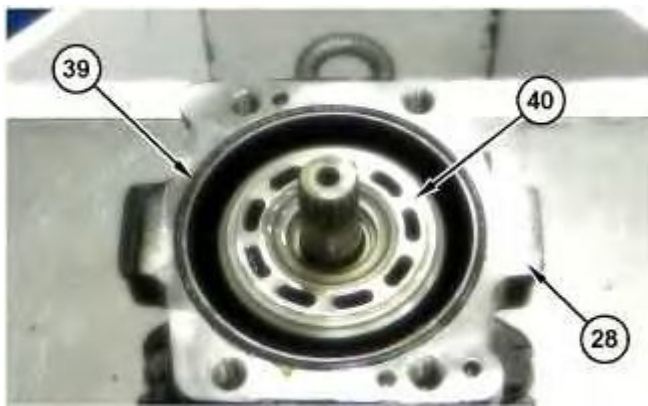


Illustration 17

g06198295

20. Remove O-ring seal (39) and barrel (40) from housing (28).



Illustration 18

g06198300

21. Remove pistons (41) and retainer plate (42) from barrel (40).

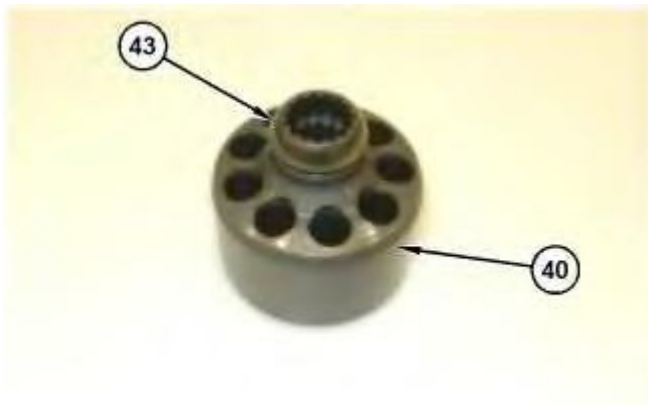


Illustration 19

g06198303

22. Remove bearing (43) from barrel (40).

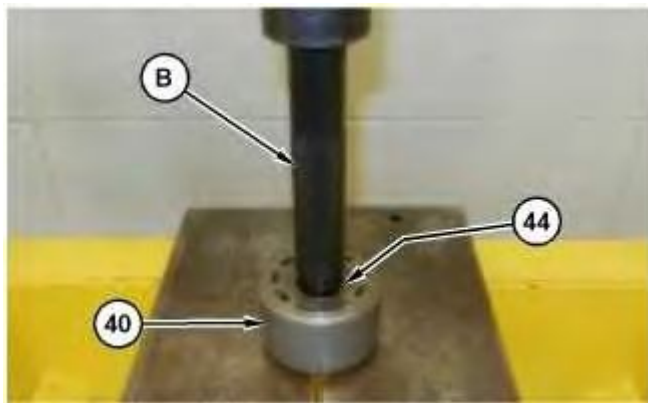


Illustration 20

g06198312



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 (B) and a suitable press to remove retaining ring (44) from barrel (40).

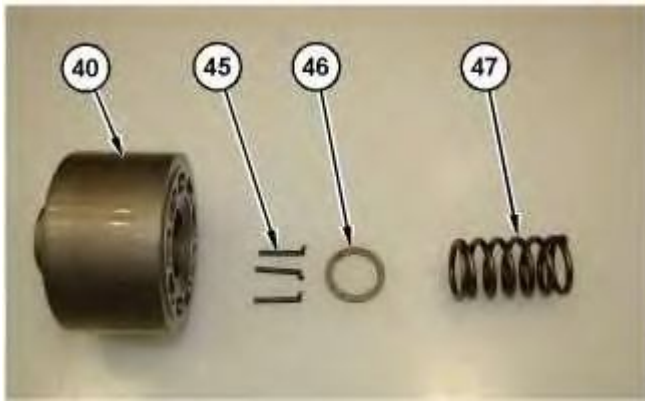


Illustration 21

g06198344

24. Remove spring (47), washer (46), and pins (45) from barrel (40).

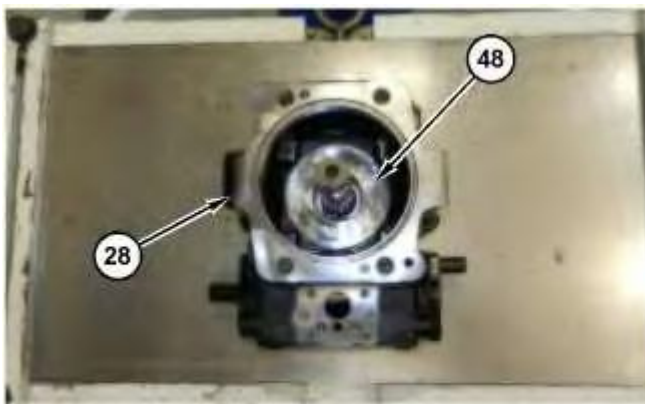


Illustration 22

g06198514

25. Remove swashplate assembly (48) from housing (28).



Illustration 23

g06198522

26. Remove slide assembly (49), bearings (50), and (51) from swashplate assembly (48).

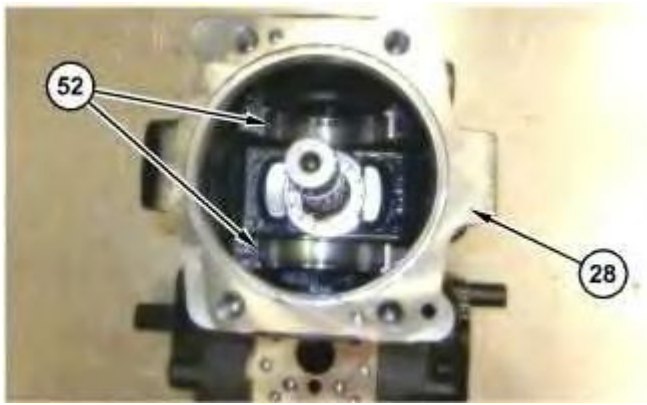


Illustration 24

g06198532

27. Remove bearing races (52) from housing (28).



Illustration 25

g06198537



Illustration 26

g06198539

28. Remove plugs (53), (54), (55), and the O-ring seals. Remove pin (56) from behind plug (55).

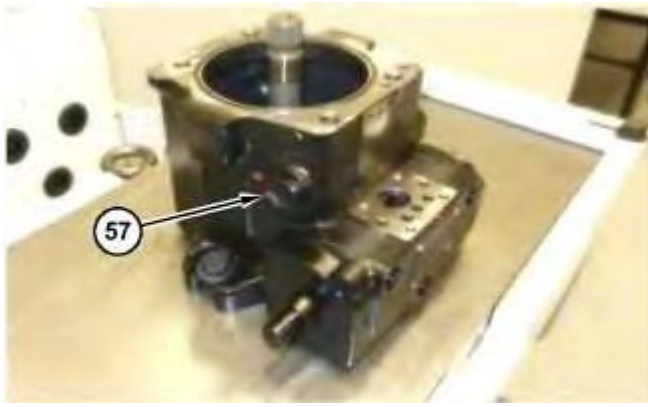


Illustration 27

g06198548

29. Remove plug (57) and the O-ring seal.

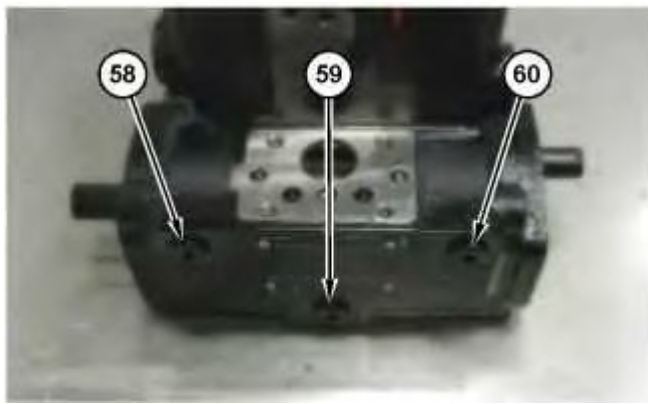


Illustration 28

g06198564

30. Remove plugs (58) and (60). Remove plug (59) and the O-ring seal.

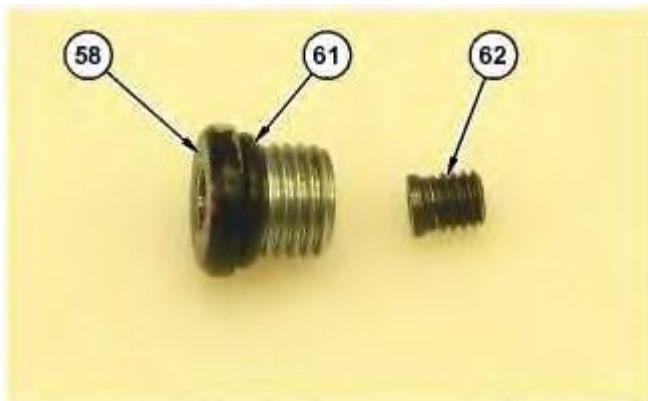


Illustration 29

g06198580

31. Remove O-ring seal (61) from plug (58). Remove orifice (62) from behind plug (58). Repeat for plug (60).

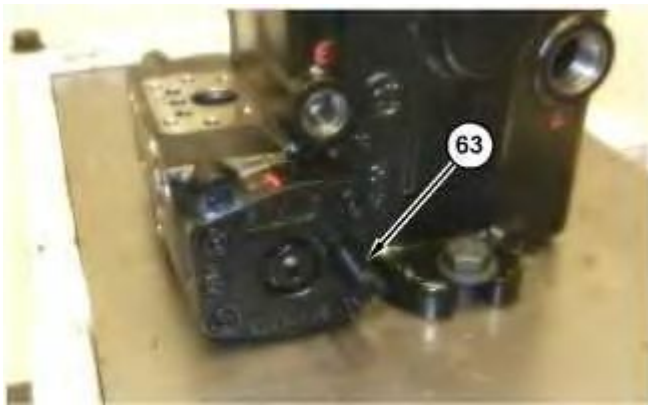


Illustration 30

g06198587

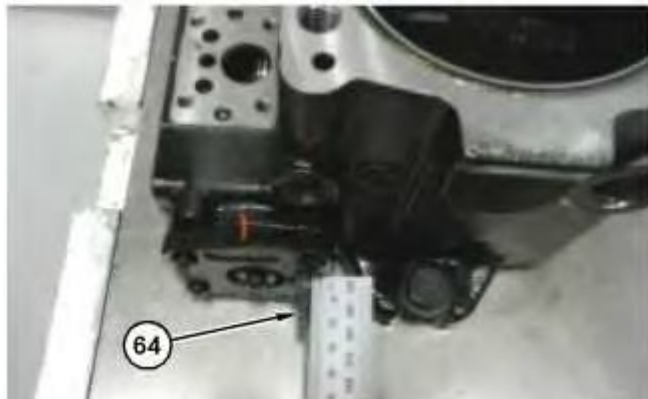


Illustration 31

g06198596

32. Remove cover (63). Measure the length of adjustment screw (64) for assembly purposes.

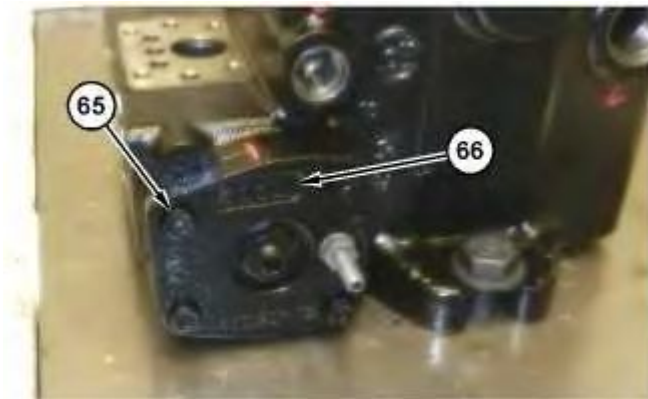


Illustration 32

g06198602

33. Remove bolts (65) and actuator assembly (66).
-



Illustration 33

g06198687

34. Remove nut (68) and cover (67) from actuator assembly (66).

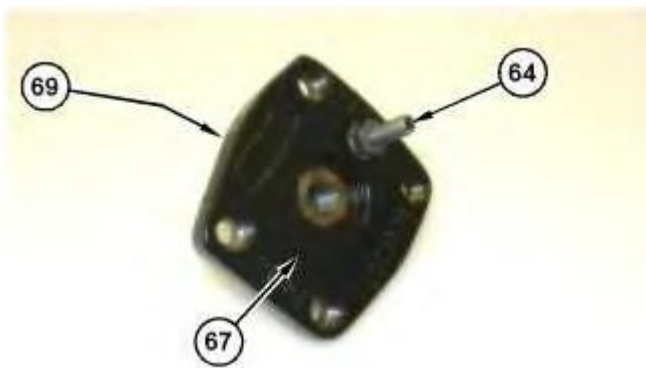


Illustration 34

g06198692

35. Remove O-ring seal (69) (not shown) and adjustment screw (64) from cover (67).



Illustration 35

g06198722

36. Remove O-ring seal group (70) and ring guide (71). Repeat for opposite side.

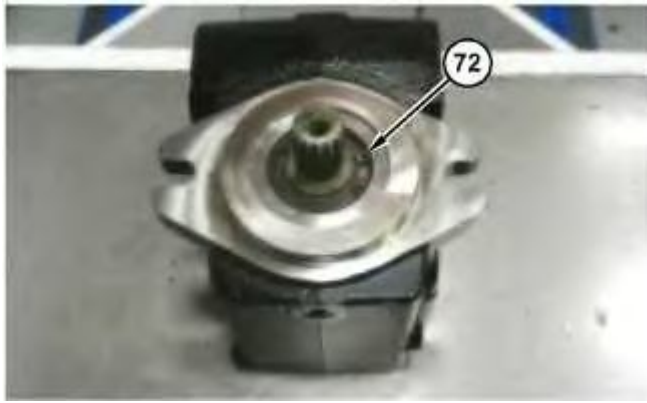


Illustration 36

g06198704

37. Remove retaining ring (72).



Illustration 37

g06198725

38. Remove lip seal (73).

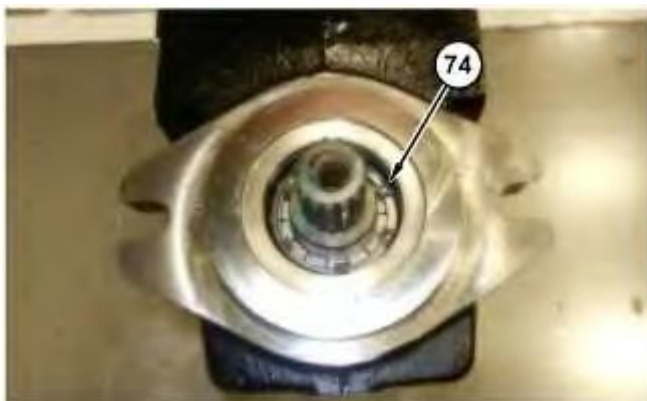


Illustration 38

g06198727

39. Remove retaining ring (74).

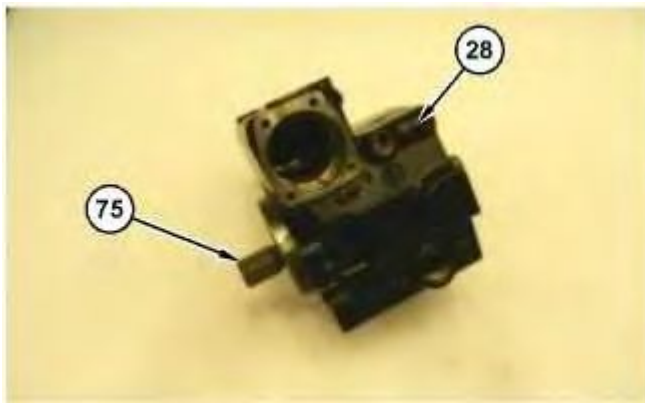


Illustration 39

g06198730

40. Use a soft faced hammer to remove shaft assembly (75) from housing (28).

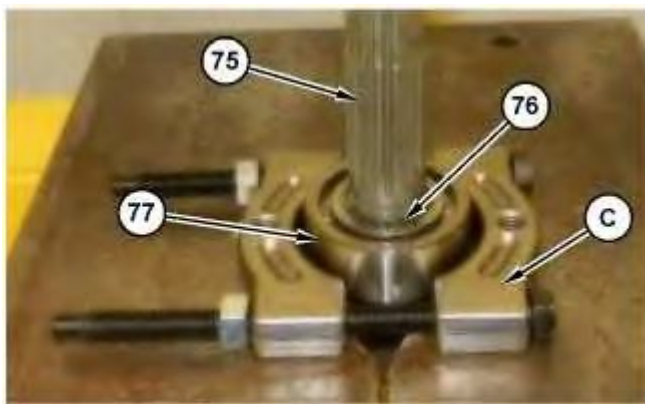


Illustration 40

g06198753

41. Remove retaining ring (76). Use Tooling (C) and a suitable press to remove bearing (77) from shaft (75).
-

Product: SOIL COMPACTOR

Model: CS44B SOIL COMPACTOR RGE

Configuration: CS44B, CP44B Vibratory Soil Compactor RGE00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly CP44B and CS44B Vibratory Soil Compactor Machine Systems

Media Number -M0078132-00

Publication Date -01/08/2015

Date Updated -22/05/2017

i06976535

Piston Pump (Vibratory) - Assemble

SMCS - 5070-016; 5652-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	437-3776	Fixture As.	1
	1U-9126	Adapter Plate	1
	1U-5750	Engine Stand	1
B	1P-O510	Driver Gp	1

Note: Cleanliness is an important factor. Before assembly, thoroughly clean all parts in cleaning fluid. Allow the parts to air dry. Do not use wiping cloths or rags to dry parts. Lint may be deposited on the parts which may cause trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement. Dirt and other contaminants can damage the precision component. Perform assembly procedures on a clean work surface. Keep components covered and protected always.

Note: Check the O-ring seals, the gaskets, and the seals for wear or for damage. Replace the components, if necessary.

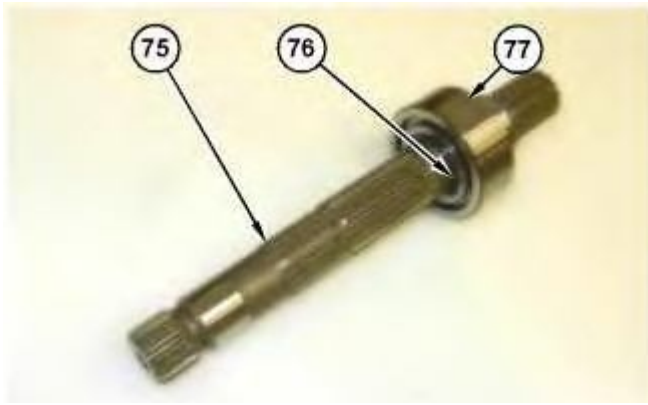


Illustration 1

g06198850

1. Install bearing (77) and retaining ring (76) onto shaft (75).



Illustration 2

g06198722

2. Install ring guide (71) and O-ring seal group (70). Repeat for opposite side.

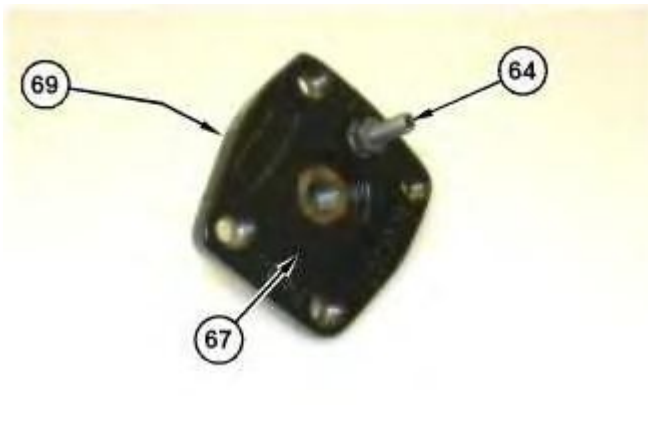


Illustration 3

g06198692

3. Install adjustment screw (64) and O-ring seal (69) (not shown) into cover (67).



Illustration 4

g06198687

4. Install cover (67) onto actuator (66) and install nut (68).

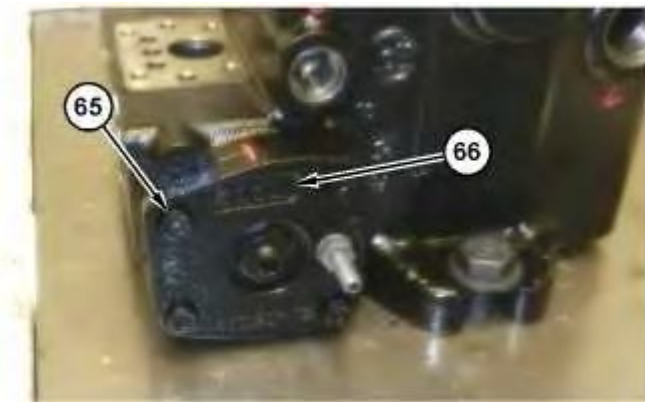


Illustration 5

g06198602

5. Install actuator assembly (66) and bolts (65).

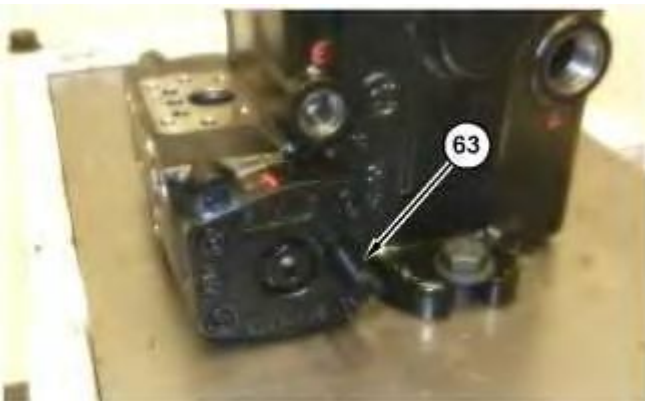


Illustration 6

g06198587

 **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.

6. Install cover (63).

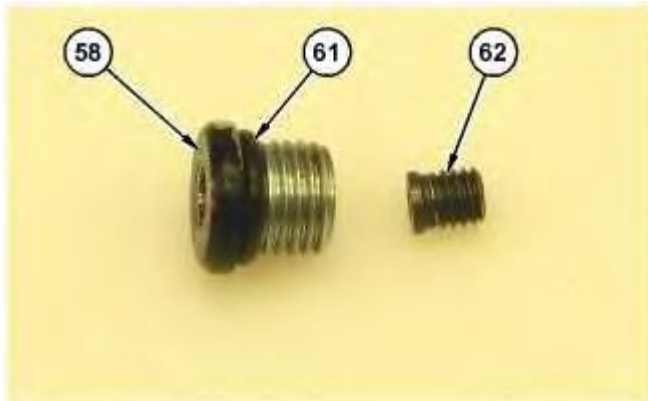


Illustration 7

g06198580

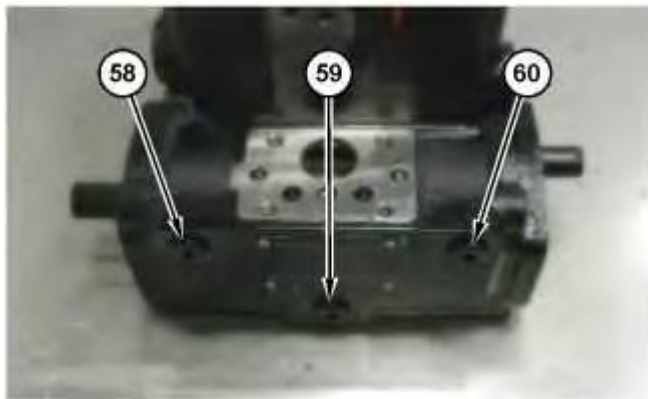


Illustration 8

g06198564

7. Install orifice (62), O-ring seal (61), and plug (58). Repeat for plug (60). Install plug (59) and the O-ring seal.



Illustration 9

g06202298

8. Install plug (57) and the O-ring seal.

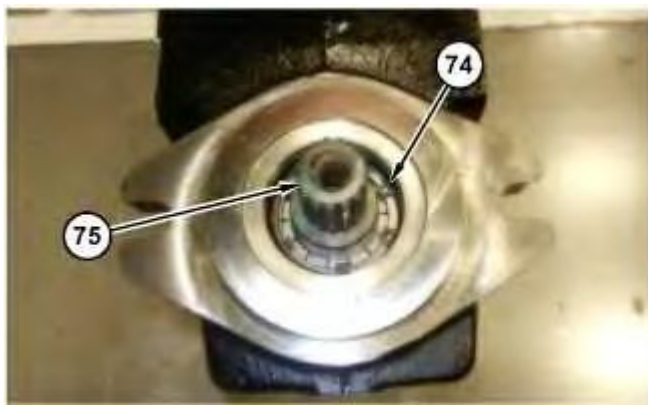


Illustration 10

g06202301

9. Install shaft assembly (75) and retaining ring (74).

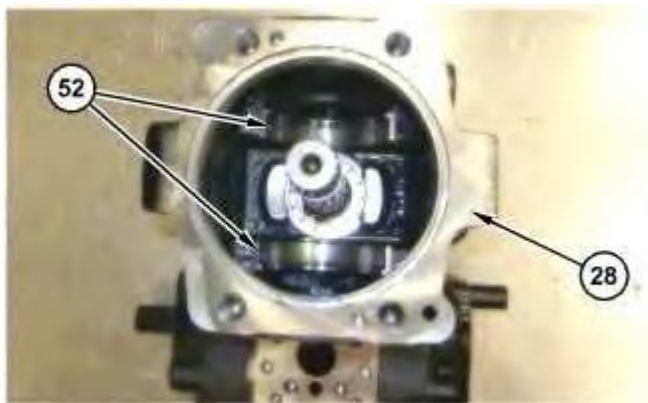


Illustration 11

g06198532

10. Install bearing races (52) into housing (28).

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