

Product: VIBRATORY COMPACTOR

Model: CS54B VIBRATORY COMPACTOR 505

Configuration: CS54B, CP54B Vibratory Soil Compactor 50500001-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

Date Updated -08/03/2017

i04889899

# Piston Motor (Drum Propel) - Disassemble

SMCS - 5058-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Gp	1

### Start By:

- a. Remove the piston motor (drum propel).

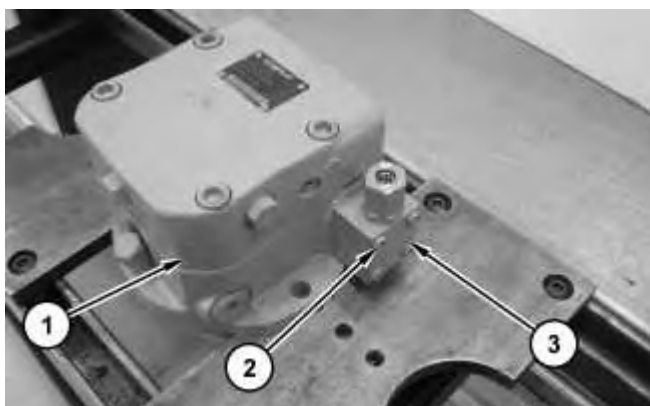
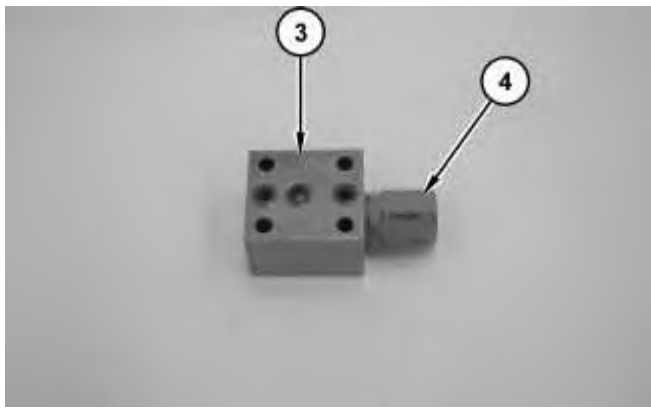


Illustration 1

g03014041

1. Remove bolts (2) and housing (3) from piston motor (1).

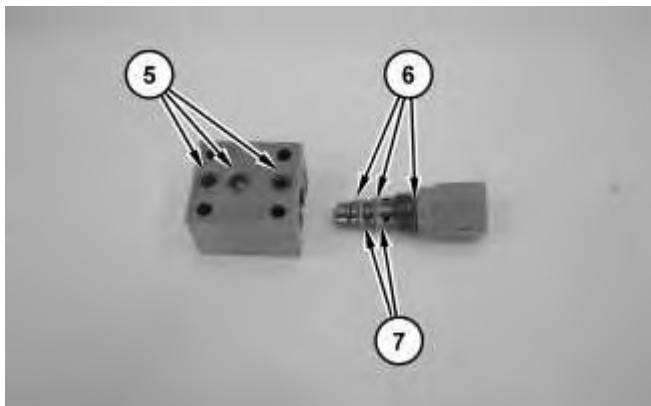


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Illustration 2

g03014243

2. Remove valve (4) from housing (3).

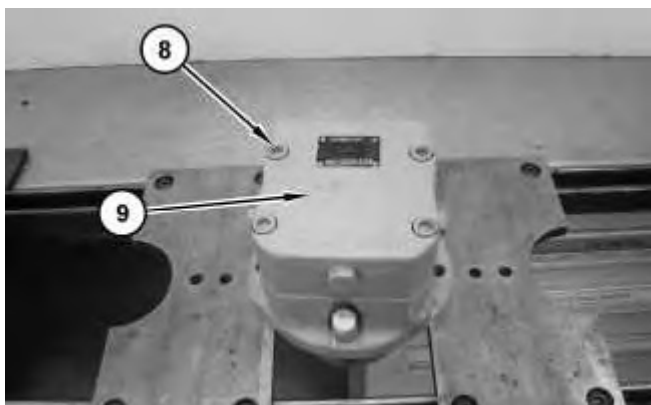


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Illustration 3

g03014278

3. Remove O-ring seals (5) and (6). Remove backup rings (7).



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Illustration 4

g03014259

4. Remove bolts (8) and head (9).
-

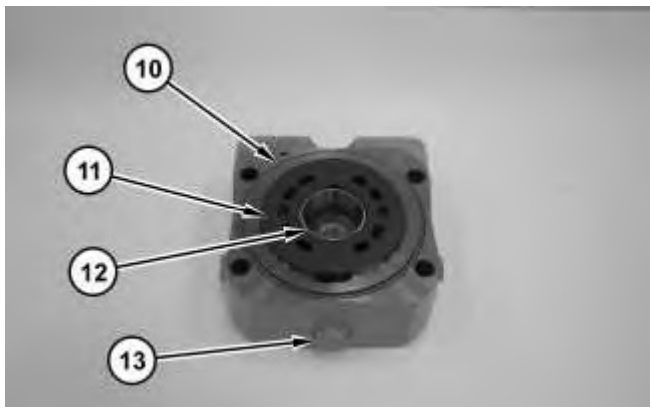


Illustration 5

g03014317

## **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.**

5. Remove plate (11) and O-ring seal (10)
6. Remove bearing cup (12).
7. Remove plugs (13).

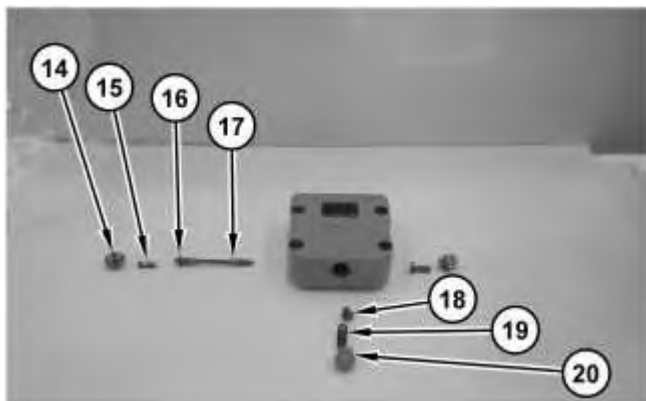


Illustration 6

g03014359

8. Remove O-ring seals (14), springs (15), and spacers (16) from both sides of head (9). Remove spool (17).
9. Remove O-ring seal (20). Remove spring (19) and poppet valve (18).

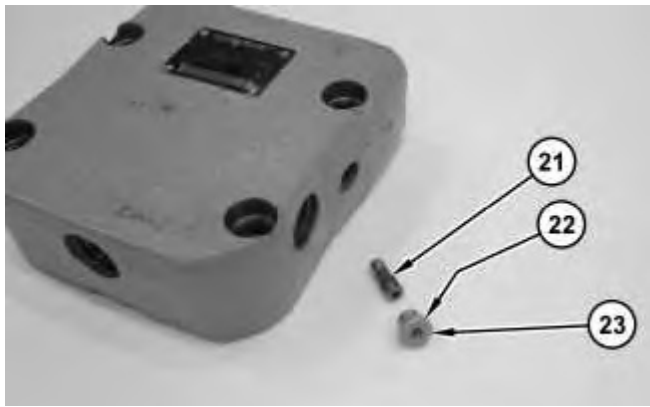


Illustration 7

g03014679

10. Remove plug (23). Remove O-ring seal (22) and shuttle valve (21).

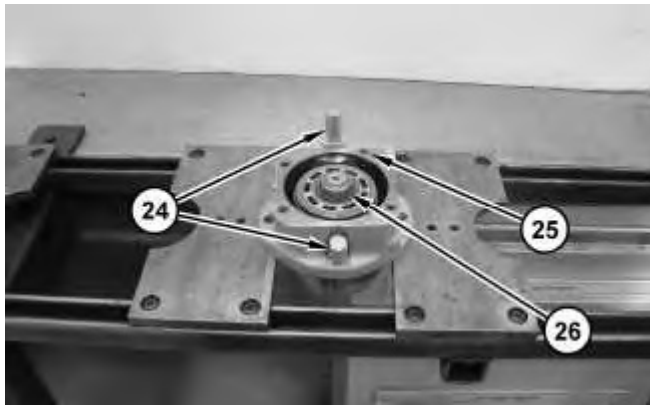


Illustration 8

g03014421

11. Remove plugs (24).
12. Remove O-ring seal (25). Remove bearing cone (26)



Illustration 9

g03014534

13. Remove O-ring seals (27) and (28).

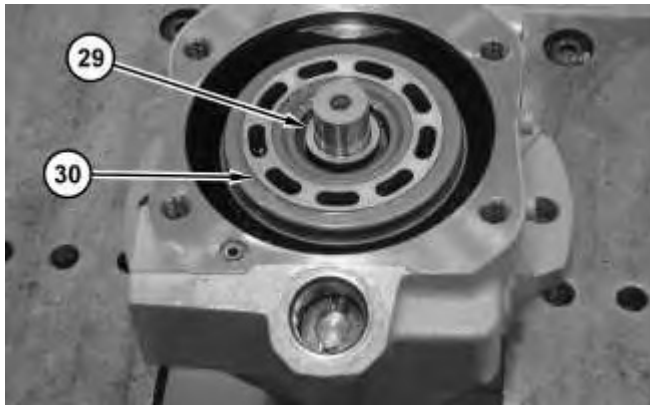


Illustration 10

g03014556

14. Remove spacer (29) and barrel (30).

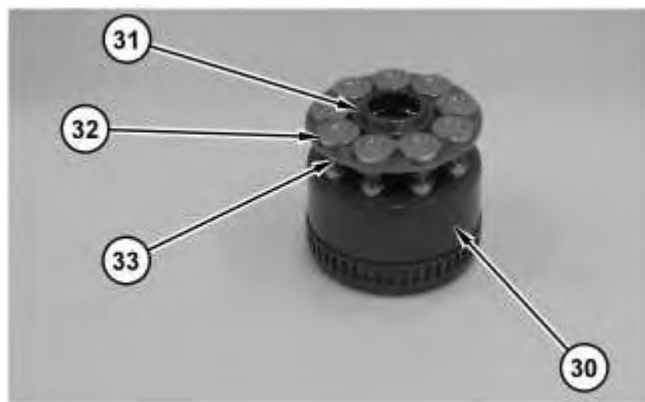


Illustration 11

g03014576

15. Remove plate (33) and pistons (32) from barrel (30).
16. Remove retainer (31).

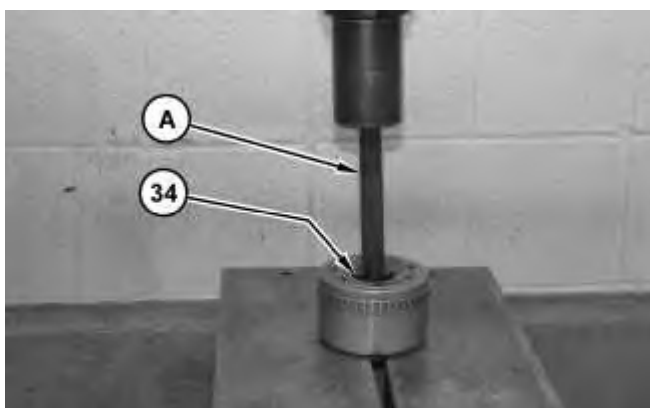


Illustration 12

g03014626

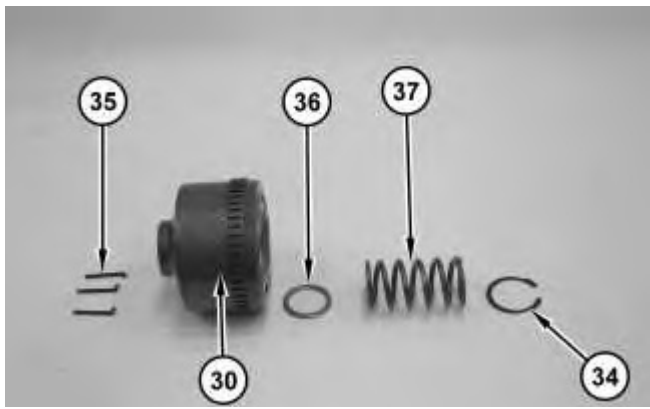


Illustration 13

g03014629

**! 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.**

17. Use Tooling (A) and a suitable press in order to remove retaining ring (34).
18. Remove retaining ring (34), spring (37), washer (36), and pins (35) from barrel (30).

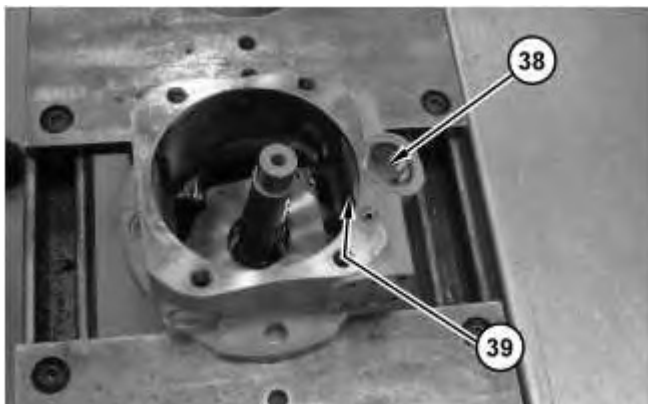


Illustration 14

g03014636

19. Remove plug (38) and pin (39).

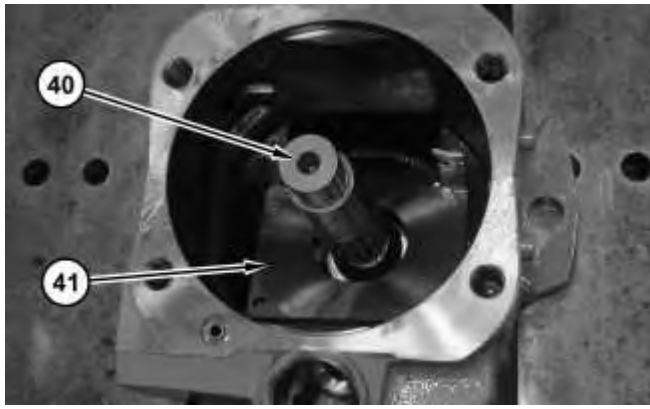


Illustration 15

g03014639

20. Remove swashplate (41) and shaft (40).

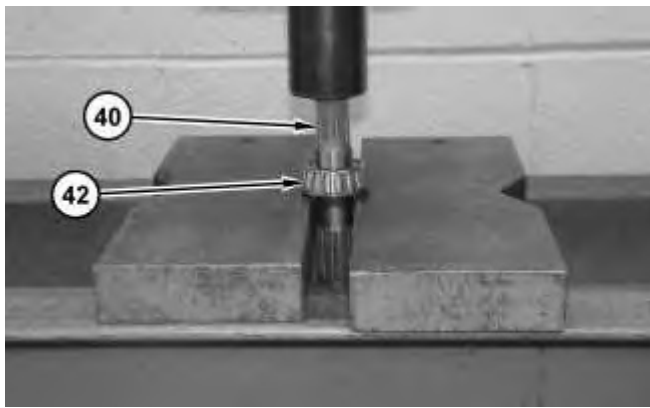


Illustration 16

g03014643

21. Use a suitable press in order to remove bearing cone (42) from shaft (40).

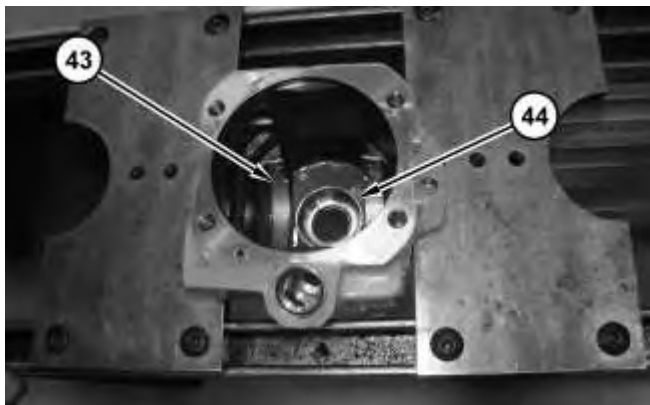
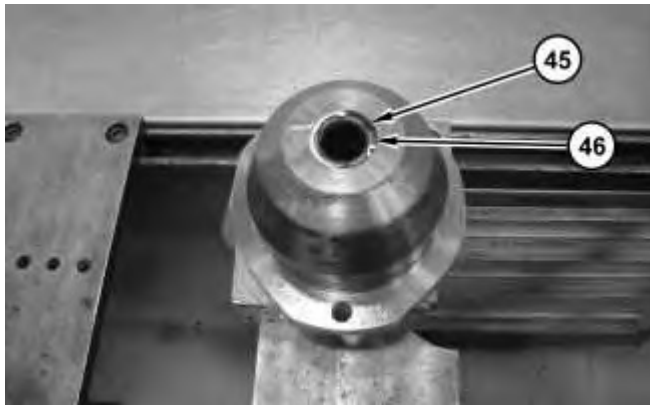


Illustration 17

g03014660

22. Remove cradle bearings (43) and bearing cup (44).



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Illustration 18

g03014676

23. Remove retaining ring (45).
  24. Remove seal (46).
-



Product: VIBRATORY COMPACTOR

Model: CS54B VIBRATORY COMPACTOR 505

Configuration: CS54B, CP54B Vibratory Soil Compactor 50500001-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

Date Updated -08/03/2017

i04889904

## Piston Motor (Drum Propel) - Assemble

SMCS - 5058-016

### Assemble

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Gp	1
B	-	Loctite 271	-
C	-	Loctite 242	-

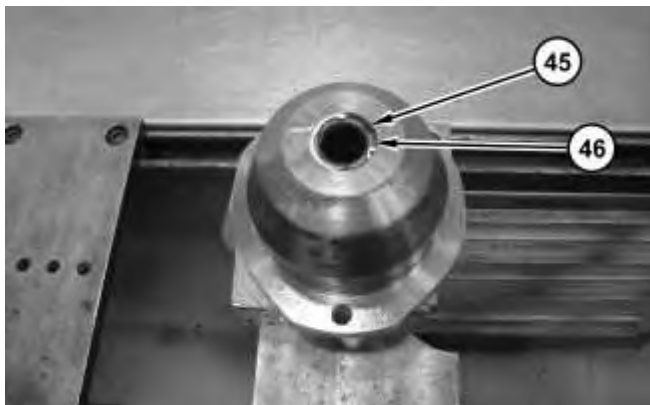


Illustration 1

g03014676

1. Use Tooling (A) to install seal (46).
2. Install retaining ring (45).

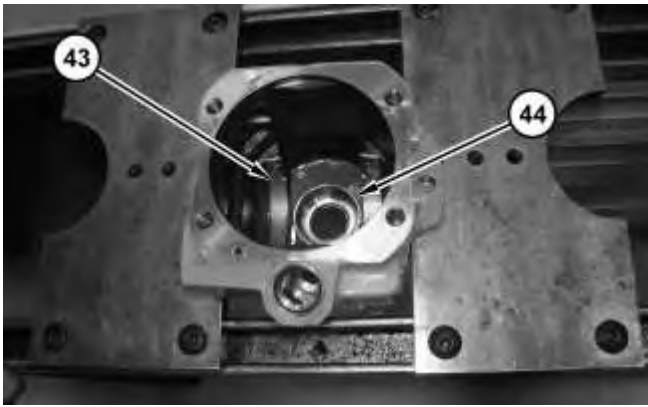


Illustration 2

g03014660

3. Using Tooling (A) install bearing cup (44).
4. Install cradle bearings (43).

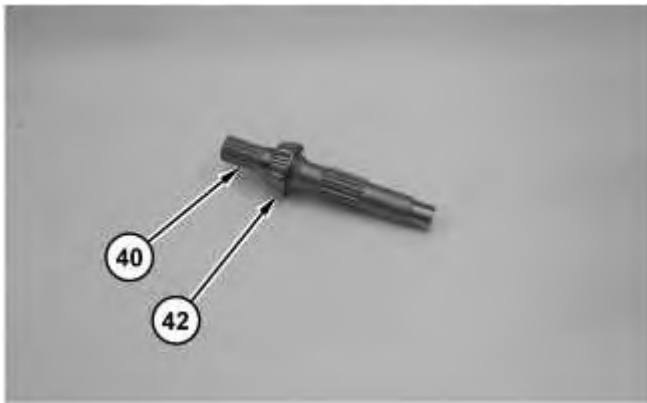


Illustration 3

g03015516

5. Raise temperature of bearing cone (42) in order to install on shaft (40).



Illustration 4

g03014639

6. Install shaft (40) and swashplate (41).

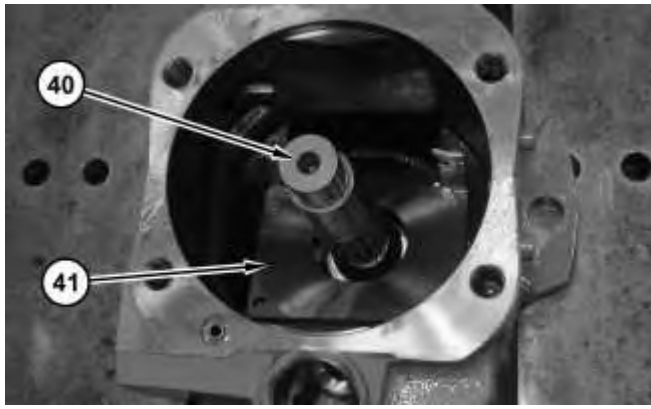


Illustration 5

g03014639

7. Install pin (39) and plug (38).

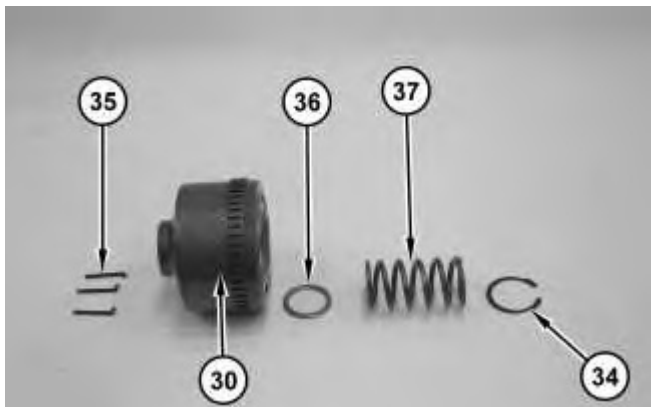


Illustration 6

g03014629

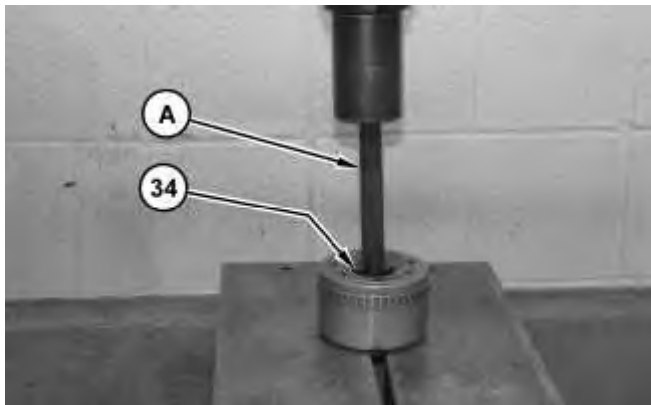


Illustration 7

g03014626

 **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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8. Install spring (37), washer (36), and pins (35) to barrel (30).
9. Using Tooling (A) and a suitable press in order to install retaining ring (34).

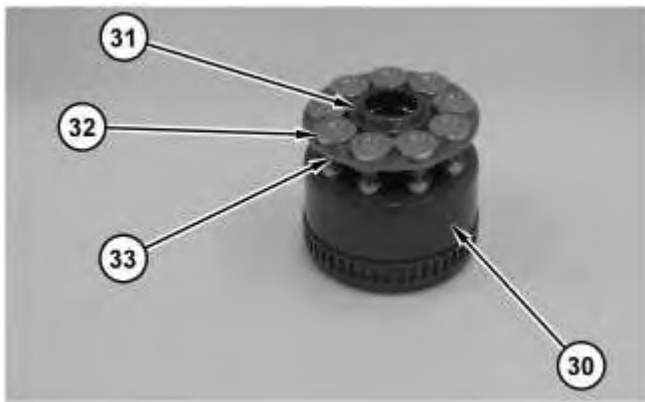


Illustration 8

g03014576

10. Install retainer (31). Install pistons (32) and plate (33) to barrel (30).



Illustration 9

g03014556

11. Install barrel (30) and spacer (29).
-

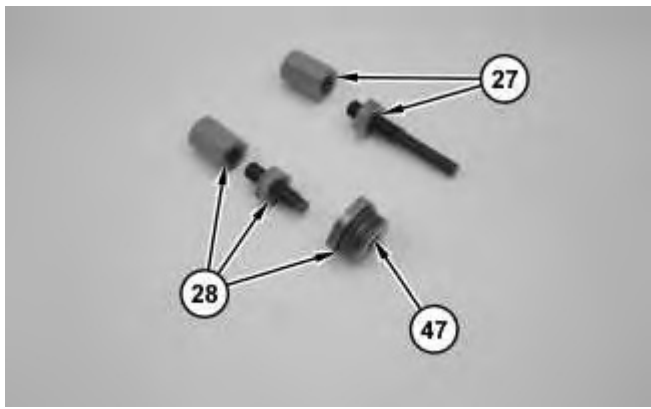


Illustration 10

g03015603

12. Install O-ring seals (27) and (28).

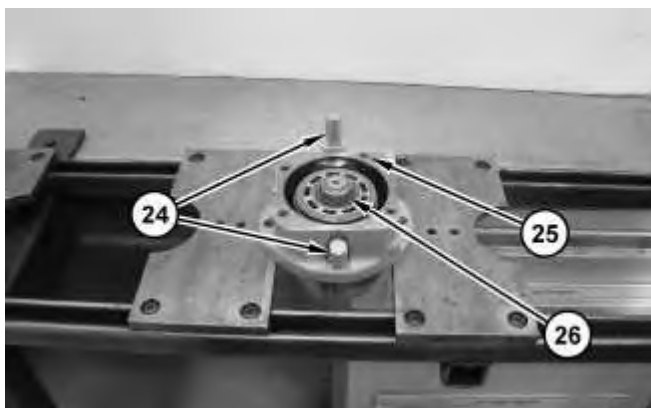


Illustration 11

g03014421

13. Apply Tooling (B) to plug (47). Install plugs (24).
14. Install bearing cone (26) and O-ring seal (25).



Illustration 12

g03014679

15. Apply Tooling (C) to shuttle valve (21). Install shuttle valve (21).
16. Install O-ring seal (22) and plug (23).

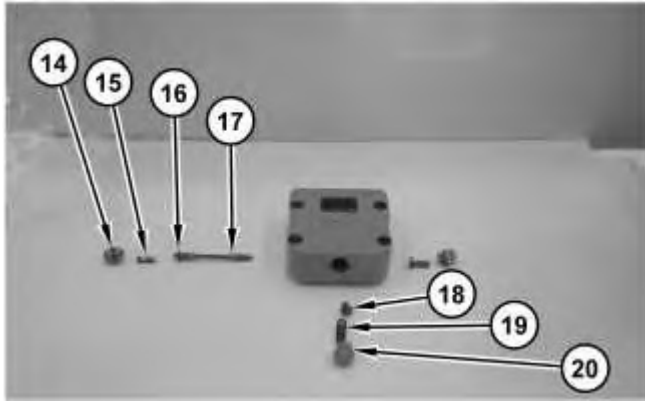


Illustration 13

g03014359

 **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.**

17. Install spool (17). Install spacers (16) and springs (15) to both sides of head (9).
18. Install spring (19) and poppet valve (18). Install O-ring seal (20).

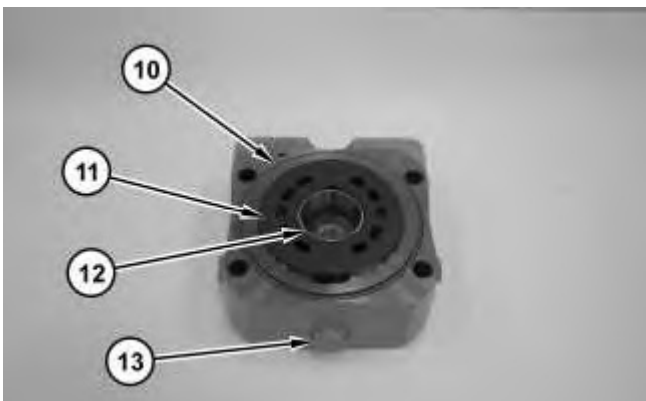


Illustration 14

g03014317

 **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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19. Install plugs (13).
20. Using Tooling (A) install bearing cup (12).
21. Install plate (11) and O-ring seal (10).

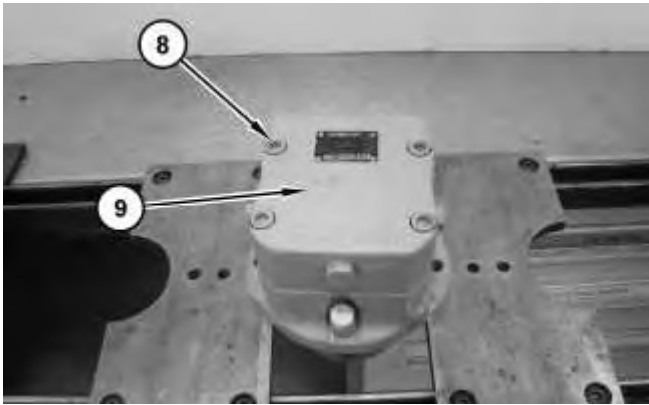


Illustration 15

g03014259

22. Install head (9) and bolts (8).

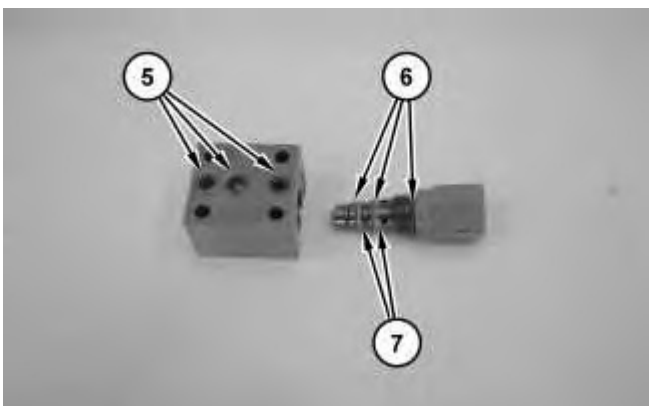
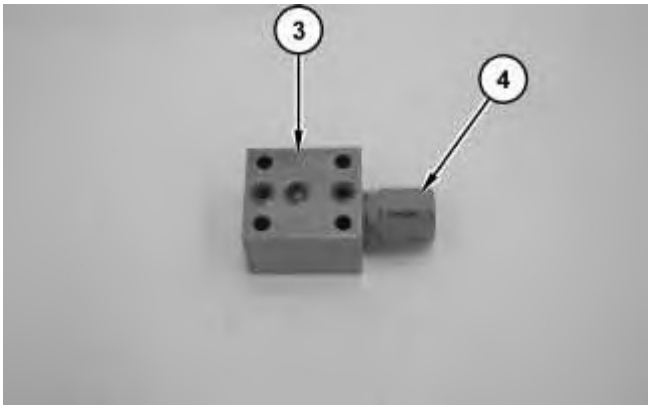


Illustration 16

g03014278

23. Install O-ring seals (5) and (6). Install backup rings (7).
-

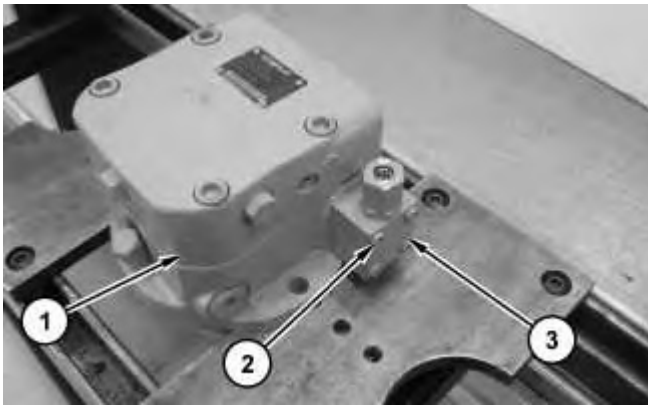


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Illustration 17

g03014243

24. Install valve (4) to housing (3).



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Illustration 18

g03014041

25. Install housing (3) and bolts (2) to piston motor (1).

**End By:**

- a. Install piston motor (drum propel).
-



Product: VIBRATORY COMPACTOR

Model: CS54B VIBRATORY COMPACTOR 505

Configuration: CS54B, CP54B Vibratory Soil Compactor 50500001-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

Date Updated -08/03/2017

i04537988

## Piston Motor (Vibratory) - Remove and Install

SMCS - 5058-010; 5651-010

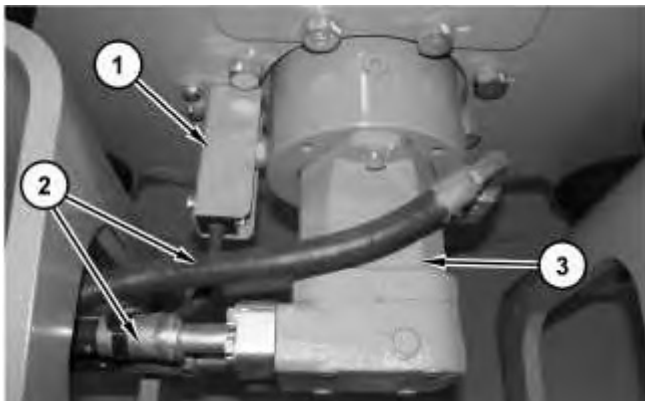
### Removal Procedure



**Personal injury can result from hydraulic oil pressure and hot oil.**

**Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.**

**Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.**



1. Disconnect all hose assemblies (1) from the vibratory piston motor (3).

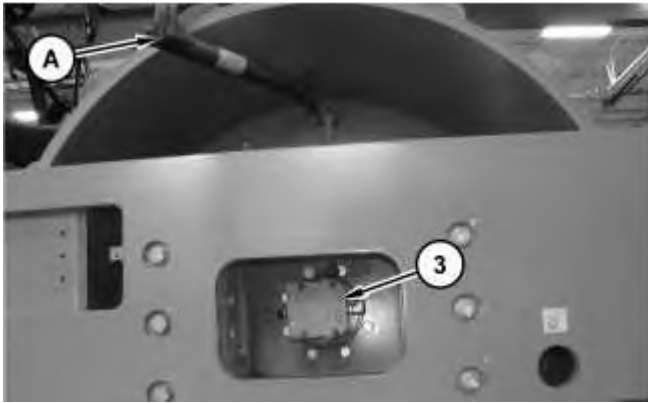


Illustration 2

2. Attach a suitable lifting device to vibratory piston motor (3). The weight of vibratory piston motor (3) is approximately 18 kg (40 lb). Remove vibratory piston motor (3).

## Installation Procedure

1. Install vibratory piston motor (3) in the reverse order of removal.
-

Product: VIBRATORY COMPACTOR

Model: CS54B VIBRATORY COMPACTOR 505

Configuration: CS54B, CP54B Vibratory Soil Compactor 50500001-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

Date Updated -08/03/2017

i04552845

### Piston Motor (Vibratory) - Disassemble

SMCS - 5058-015; 5651-015

### Disassembly Procedure

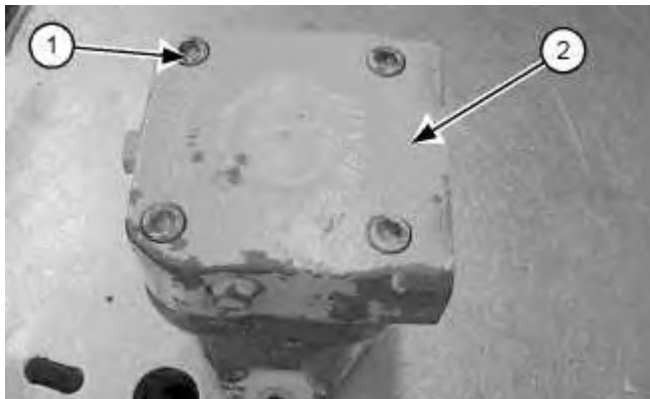
Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1857	Retaining Ring Pliers	1

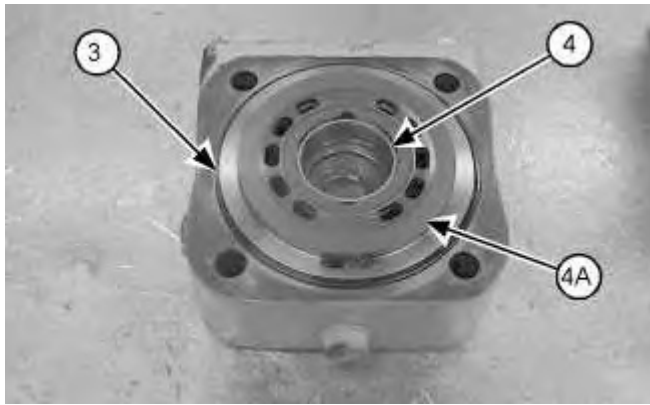
#### Start By:

- a. Remove the vibratory piston motor.

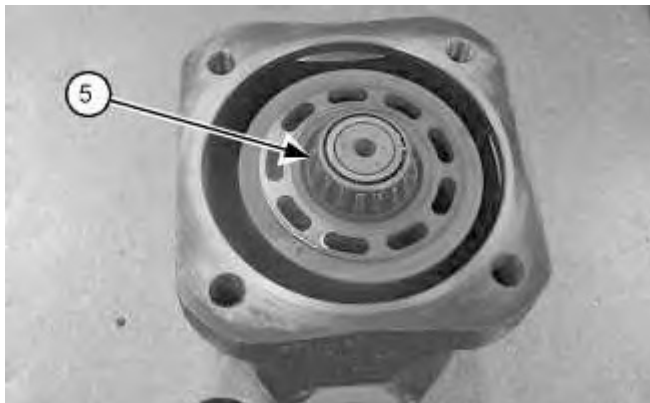
**Note:** Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Precision components can be damaged by contaminants or by dirt. Perform disassembly procedures on a clean work surface. Keep components covered and protected at all times.



1. Remove bolts (1) and cover (2).



2. Remove port plate (4A).
3. Remove O-ring seal (3).
4. Remove bearing cup (4).



5. Remove bearing cone (5).
-

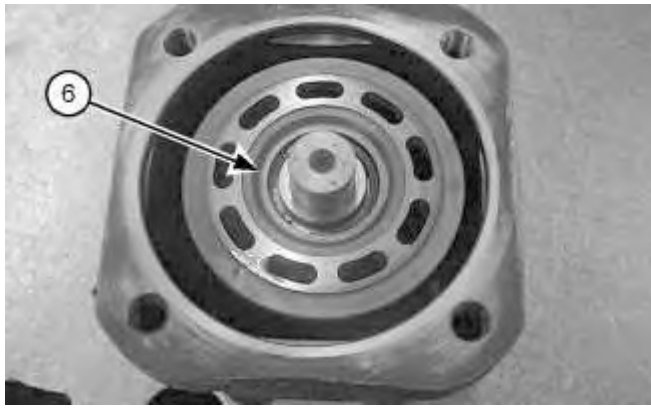


Illustration 4

g01017659

6. Remove barrel assembly (6).

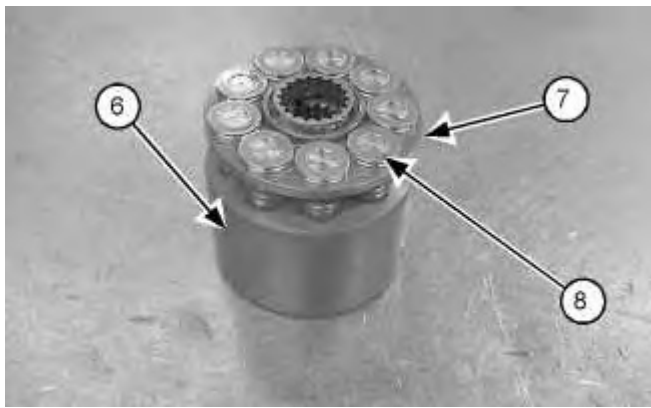


Illustration 5

g01017660

7. Remove pistons (8) and plate (7) from barrel assembly (6).

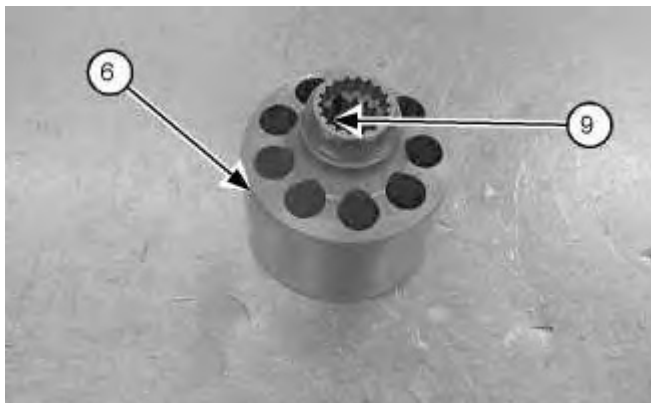


Illustration 6

g01017661

8. Remove bushing (9) from barrel assembly (6).

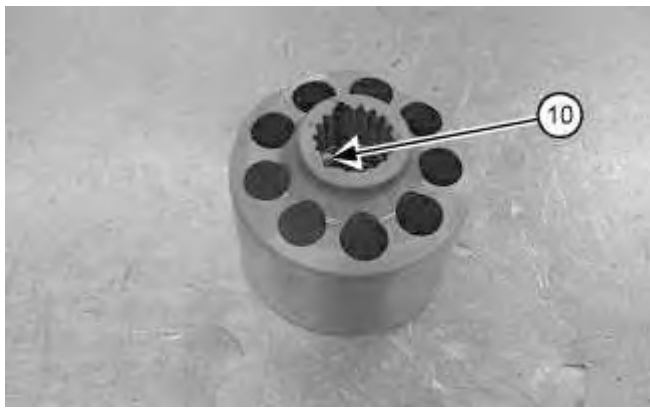


Illustration 7

g01017663

9. Remove pins (10).

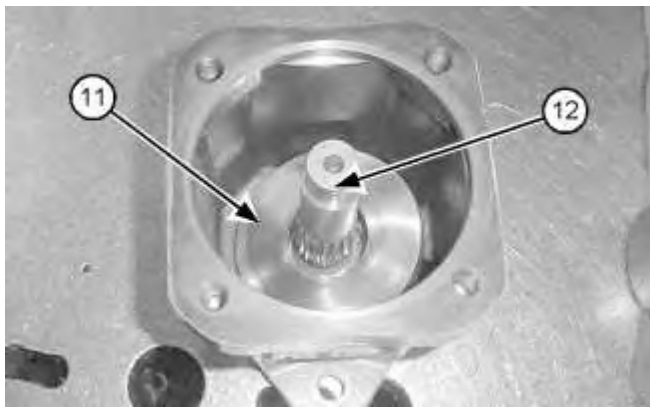


Illustration 8

g01017664

10. Remove swashplate (11) and shaft (12).

11. Remove the bearings from the swashplate.

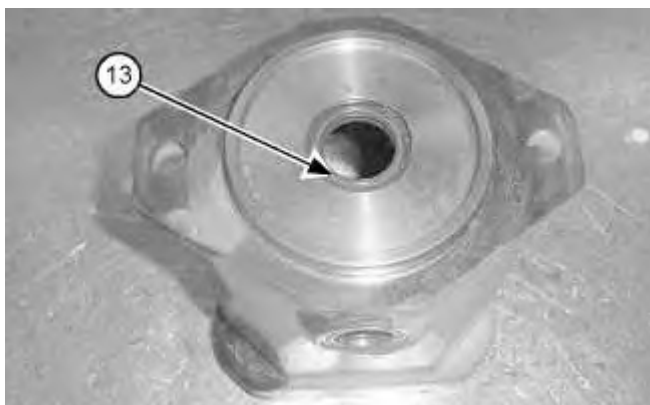


Illustration 9

g01017666

12. Use Tooling (A) in order to remove retaining ring (13).

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