

Product: VIBRATORY COMPACTOR

Model: CS-64B VIBRATORY COMPACTOR DH6

Configuration: CS64B Vibratory Soil Compactor DH600001-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

i04553359

### Piston Pump (Vibratory) - Assemble

SMCS - 5070-016; 5652-016

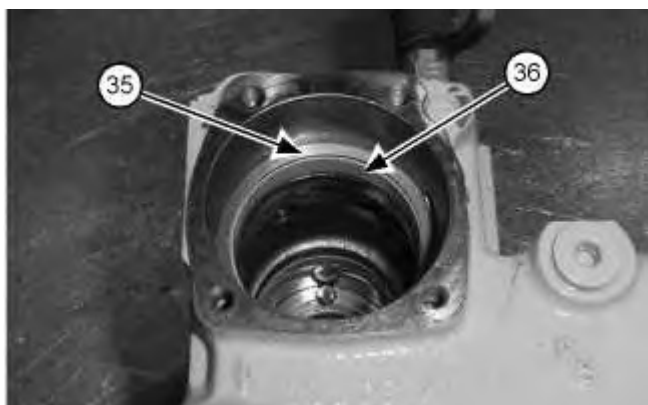
### Assembly Procedure

Table 1

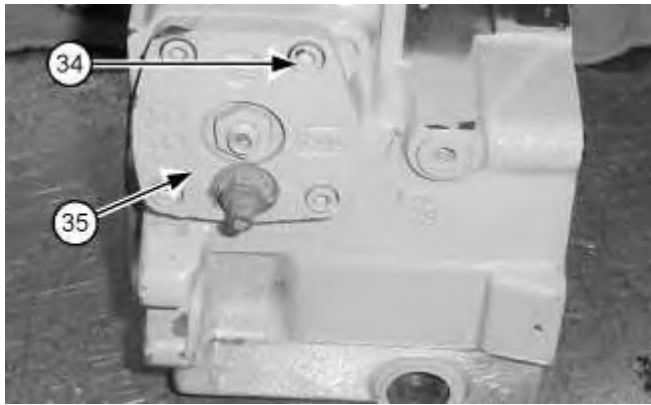
Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Gp	1

**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 at all times.

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



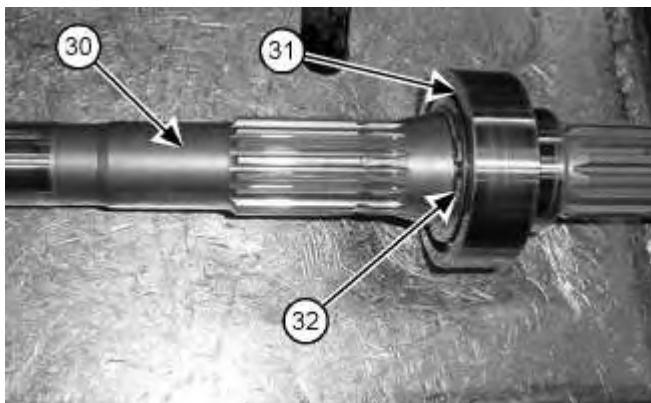
1. Install seal (35) and seal (36).



2. Install bolts (34) and cover (35).



3. Install bearings (33).



4. Raise the temperature of bearing (31).
5. Install bearing (31) onto shaft (30).
6. Install retaining ring (32).

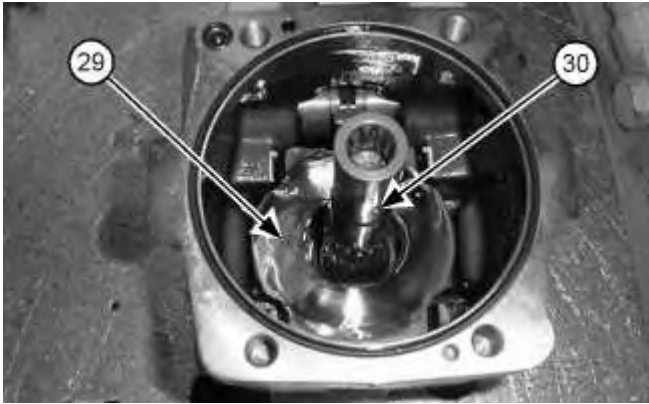


Illustration 5

g01018827

7. Install the bearings onto the swashplate.
8. Install swashplate (29) and shaft (30).

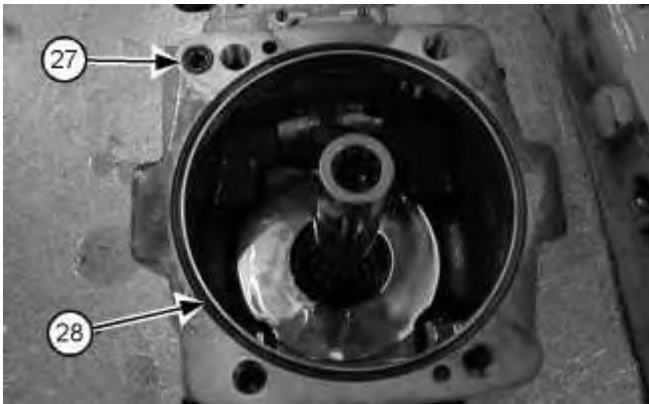


Illustration 6

g01018826

9. Install O-ring seal (27) and O-ring seal (28).





**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.**

10. Use Tooling (A) and a suitable press in order to install retaining ring (23).

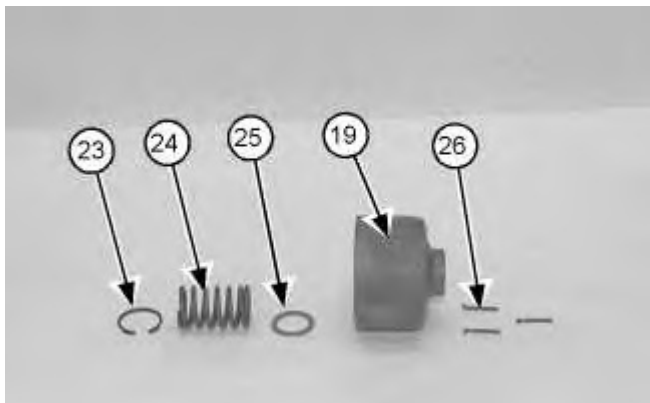


Illustration 8

g01018825

11. Install retaining ring (23), spring (24), washer (25), and pins (26) into barrel (19).

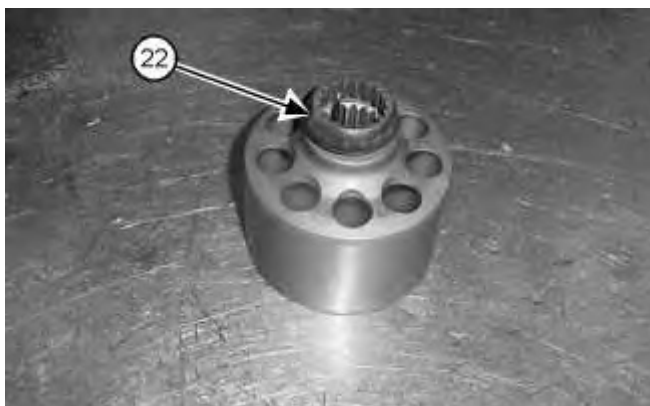


Illustration 9

g01018823

12. Install retainer (22).

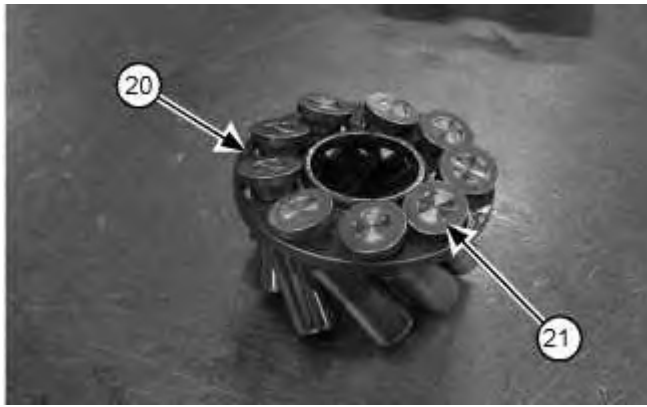


Illustration 10

g01018821

13. Install piston (21) into plate (20).

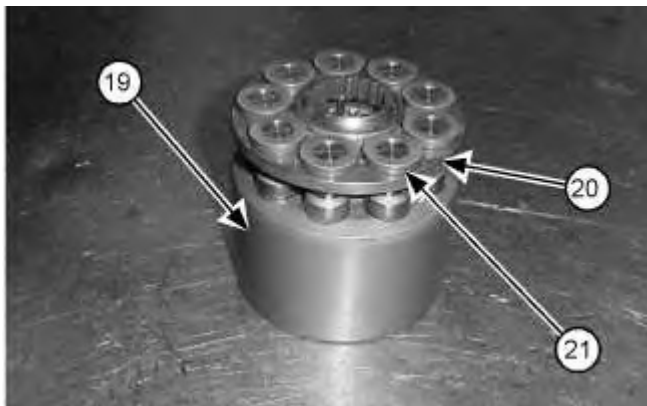


Illustration 11

g01018820

14. Install pistons (21) and plate (29) into barrel (19).

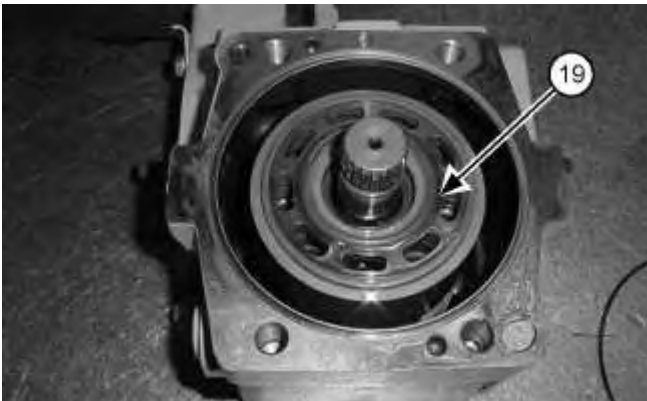


Illustration 12

g01018819

15. Install barrel (19).

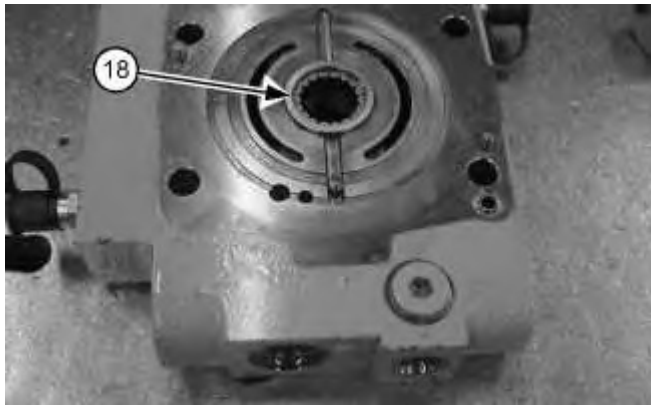


Illustration 13

g01018818

16. Install bearing (18).

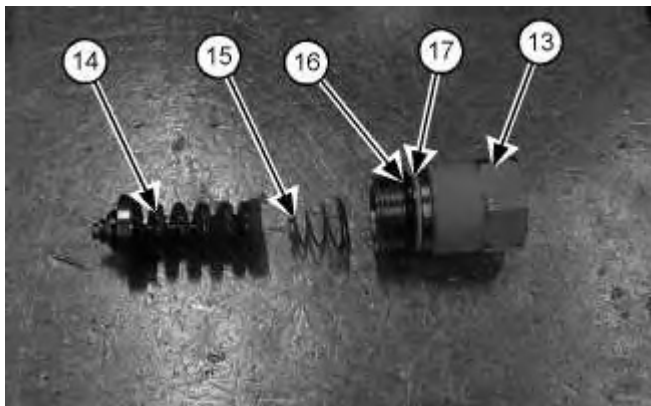


Illustration 14

g01018817

17. Install backup ring (17), O-ring seal (16), spring (15), and spring (14) into plug (13).

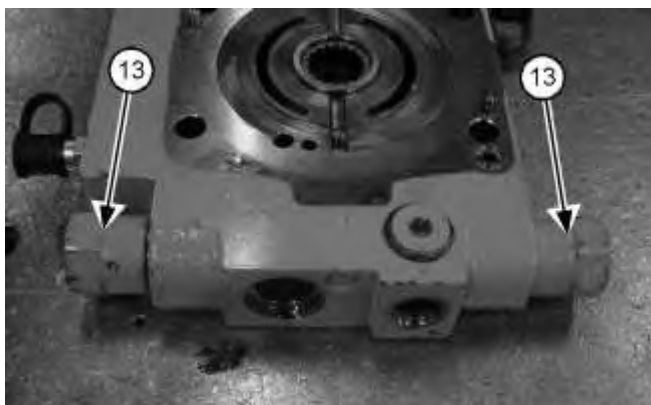


Illustration 15

g01018816

 **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.**

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18. Install plugs (13).

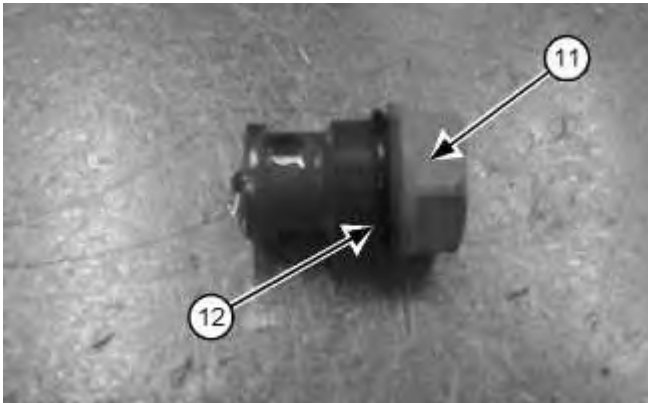


Illustration 16

g01018815

19. Install O-ring seal (12) onto plug (11).

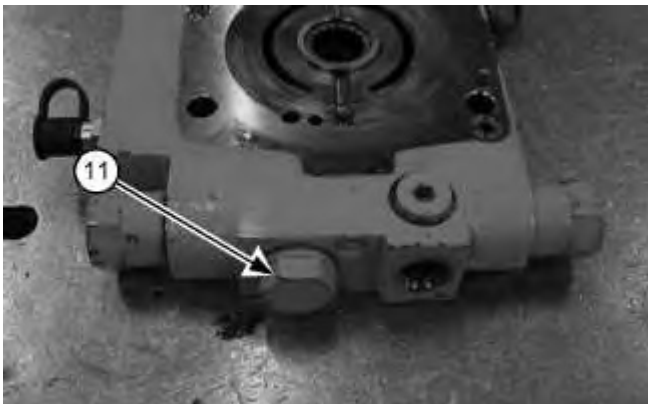


Illustration 17

g01018814

20. Install plug (11).

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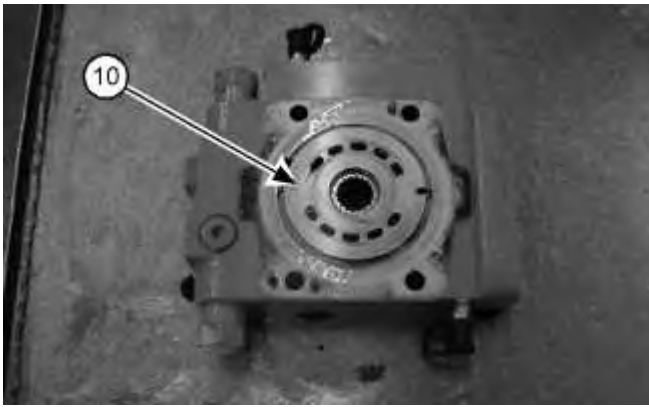


Illustration 18

g01018813

21. Install plate (10).

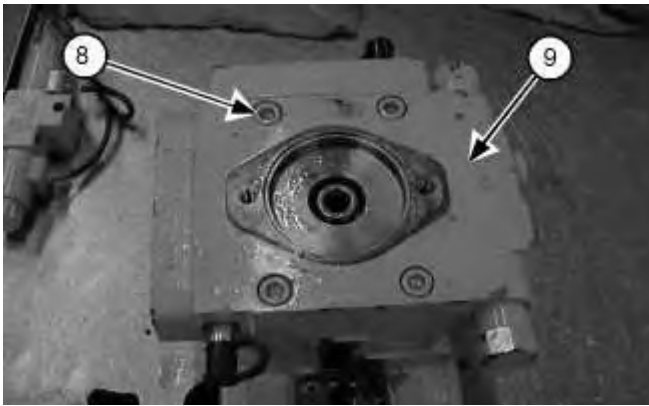


Illustration 19

g01018812

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

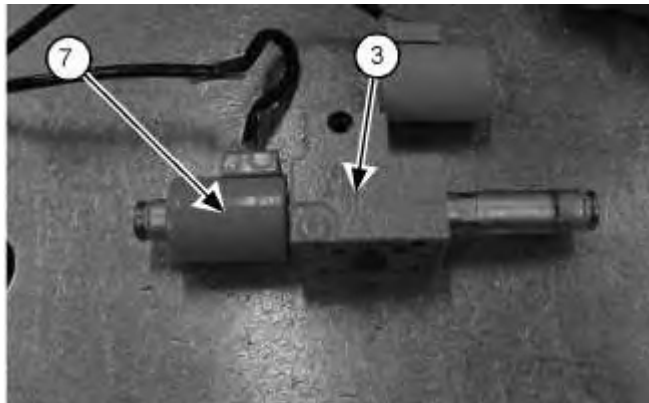
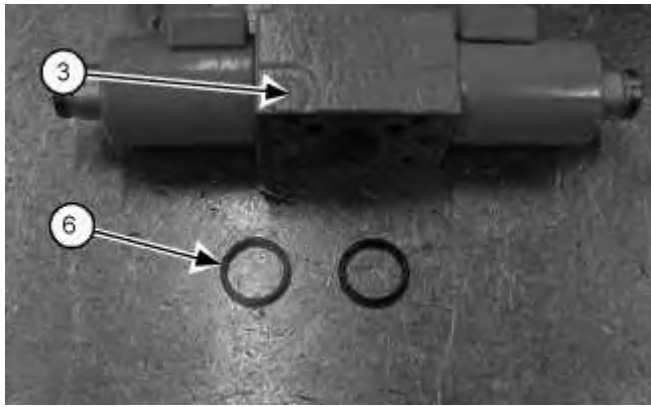


Illustration 20

g01018811

23. Install coils (7) onto valve assembly (3).



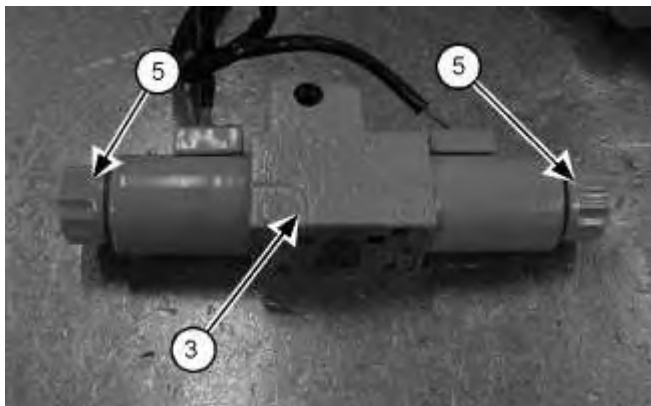


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Illustration 21

g01018810

24. Install O-ring seals (6) onto valve assembly (3).

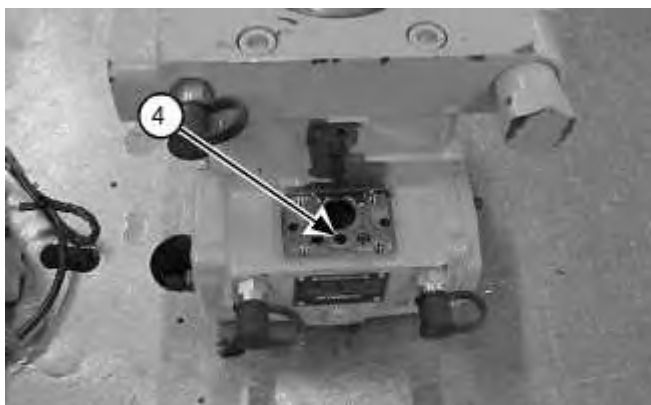


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Illustration 22

g01018809

25. Install nuts (5) onto valve assembly (3).

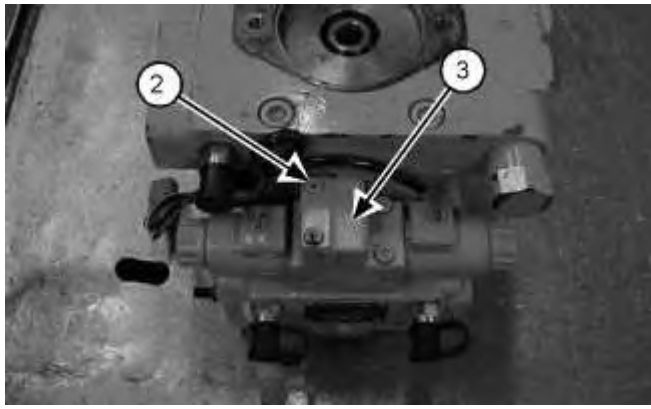


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Illustration 23

g01018807

26. Install O-ring seals (4).
-

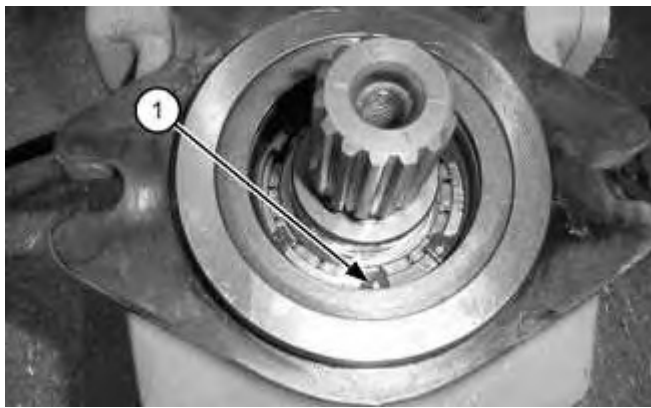


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Illustration 24

g01018806

27. Install bolts (2) and solenoid (3).



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Illustration 25

g01018805

28. Install retaining ring (1).

**End By:**

- a. Install the piston pump.
-

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## 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

i04538818

# Front Bumper - Remove and Install

SMCS - 7156-010

## Removal Procedure

Start By:

- a. Remove the scraper.



Illustration 1

g02883817

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Illustration 2

g02715049

1. Attach a suitable lifting device to front bumper (1). The weight of front bumper (1) is approximately 485 kg (1070 lb).
2. Remove bolts (2). Remove front bumper (1).

## **Installation Procedure**

1. Install front bumper (1) in the reverse order of removal.
-

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Media Number -UENR0175-03

Publication Date -01/03/2017

Date Updated -08/03/2017

i05291544

### Drum - Remove and Install

SMCS - 6605-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-9759	Jack Stand Gp	2

#### Start By:

- A. Remove the scraper.



**WARNING**

**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.**



Illustration 1

g02715012



Illustration 2

g02715049

1. Install Tooling (A) under the yoke. Attach a suitable lifting device to front bumper (1) . The weight of front bumper (1) is approximately 544 kg (1200 lb).
2. Remove bolts (2) . Remove front bumper (1) .

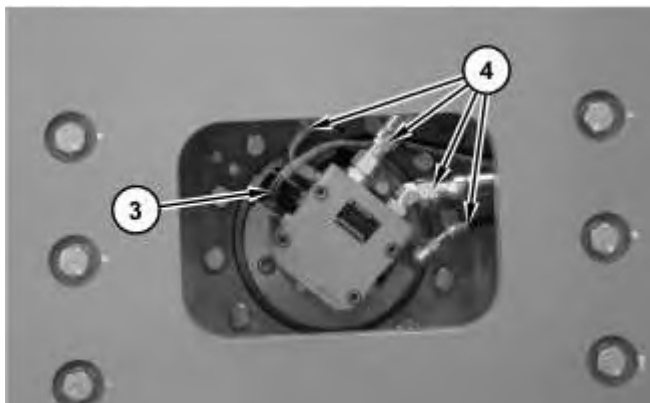


Illustration 3

g02714893

3. Disconnect harness assembly (3) . Disconnect hose assemblies (4) .



Illustration 4

g02714898

4. Disconnect harness assembly (5) . Disconnect hose assemblies (6) .

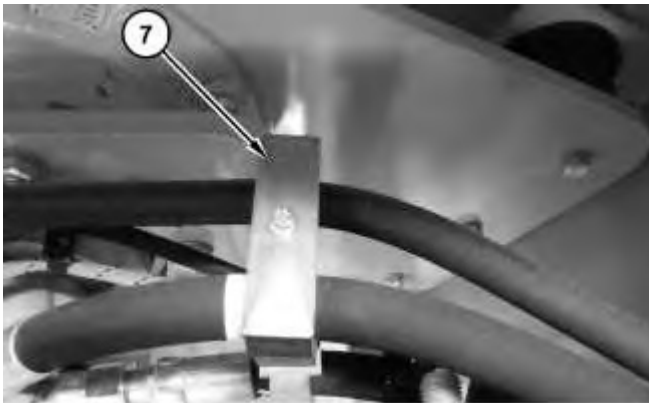


Illustration 5

g02714894

5. Remove clamp (7) .



Illustration 6

g02714895

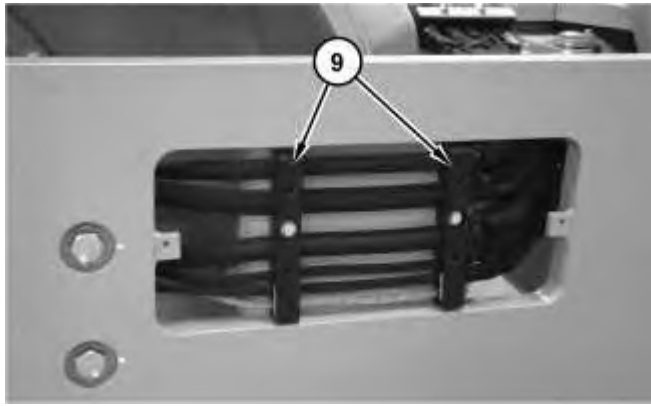


Illustration 7

g02714897

6. Remove cover (8) . Remove clamps (9) . Repeat for opposite side.



Illustration 8

g02715054

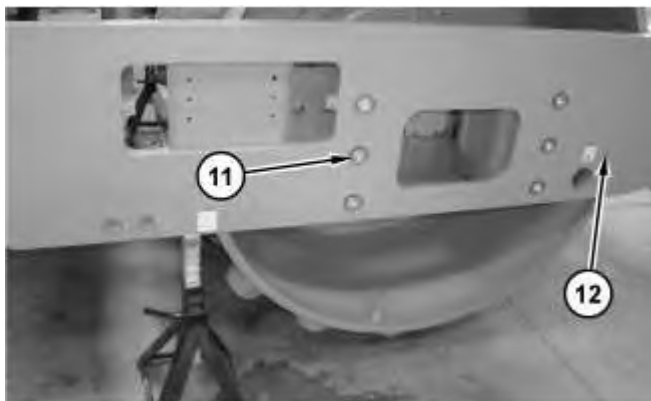


Illustration 9

g02715010



7. Attach a suitable lifting device to drum (10) . The weight of drum (10) is approximately 4875 kg (10750 lb).
8. Remove bolts (11) . Repeat for opposite side. Remove drum (10) from the yoke (12)

## Padded drum to smooth drum

1. Refer to Special Instruction, REHS8033, "Shell Kit Attachment Installation and Removal Procedure ".

## Installation Procedure

1. Install drum (10) in the reverse order of removal.

## Padded drum to smooth drum



Illustration 10

g02722411

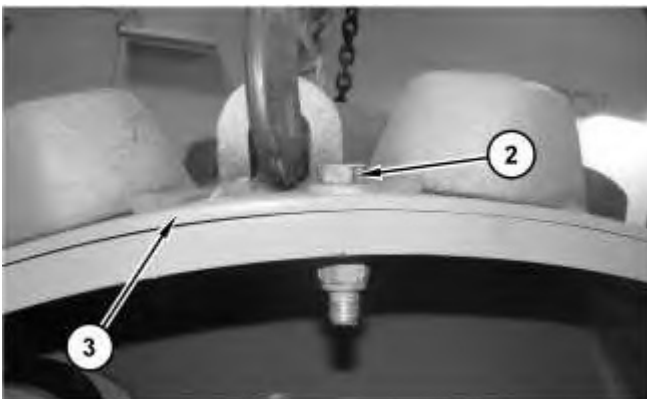


Illustration 11

g02722412

1. Attach a suitable lifting device to shell (3) . The weight of shell (3) is approximately 590 kg (1300 lb). Remove bolts (1) . Remove bolts (2) . Remove shell (3) .

2. Repeat for other shell (2) .

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

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Date Updated -08/03/2017

i04538198

# Padded Drum Scraper - Remove and Install

SMCS - 6607-010

## Removal Procedure



Illustration 1

g02715924

1. Attach a suitable lifting device to scraper (2). The weight of scraper (2) is approximately 100 kg (220 lb). Record the number of shims for installation. Remove bolts (1). Repeat for the opposite scraper.

## Installation Procedure

1. Install scraper (2) in the reverse order of removal.
  - a. Adjust scraper bars to  $20.0 \pm 10.0$  mm ( $0.80 \pm 0.40$  inch) clearance to the drum.

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## 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

i04579704

# Smooth Drum Scraper - Remove and Install

SMCS - 6607-010

## Removal Procedure

### Start By:

- a. Connect the steering frame lock.

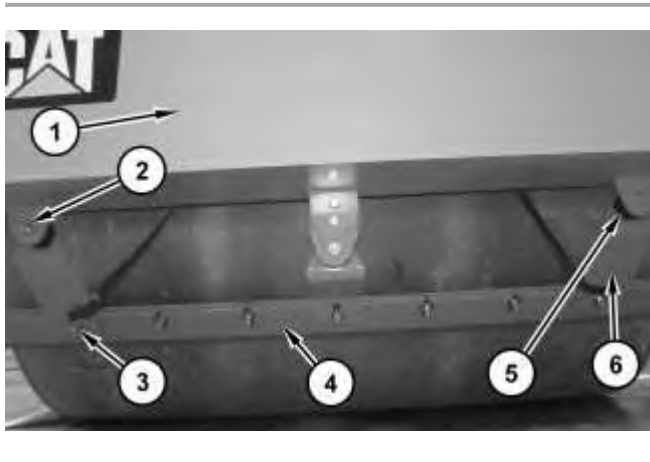


Illustration 1

g02789120

1. Attach a suitable lifting device to front scraper (4).
2. Remove bolts (3). Remove front scraper (4) from brackets (6). The weight of front scraper (4) is approximately 65 kg (145 lb).
3. Remove brackets (6) from mounts (5).
4. Remove bolts (2) and mounts (5) from bumper (1).

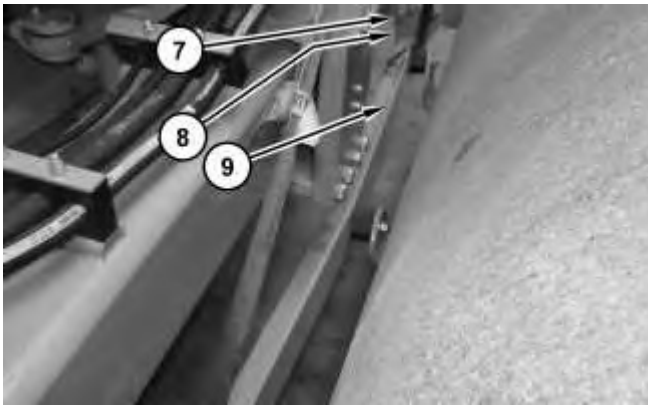


Illustration 2

g02789124

5. Attach a suitable lifting device to rear scraper (9). The weight of rear bracket assembly is approximately 160 kg (355 lb)
6. Remove bolts (7) from both sides of the machine. Remove shims (8). Lower rear bracket assembly (9).

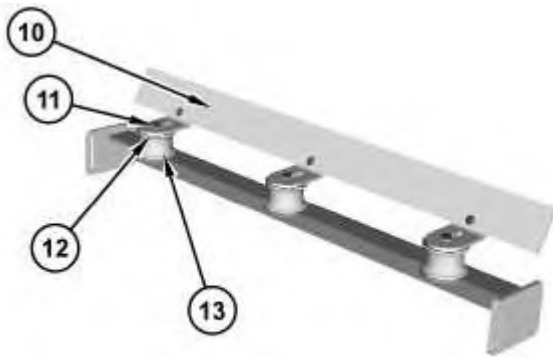


Illustration 3

g02771017

7. Attach a suitable lifting device to rear scraper (10). The weight of rear scraper is approximately 50 kg (115 lb).
8. Remove bolts (11) and brackets (12) from mounts (13).

## Installation Procedure

1. Install front scraper (4) and rear scraper (10) in the reverse order of the removal.
  - a. Clearance from (4) to drum is  $20 \pm 10$  mm ( $0.8 \pm 0.4$  inch).

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