

Product: COMPACTOR

Model: CB13 COMPACTOR LP9

Configuration: CB13 Asphalt Compactor LP900001-UP (MACHINE) POWERED BY C4.4B Engine

## Disassembly and Assembly CB13, CB15, and CB16 Asphalt Compactors Machine Systems

Media Number -M0091213-00

Publication Date -01/04/2018

Date Updated -24/04/2018

i07331280

# Drum - Remove and Install

SMCS - 6605-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Loctite 243	-

### Start By:

- a. Release the system pressure.
- b. Engage the steering frame lock.
- c. Remove the drum scraper.
- d. Remove the spray bar.



**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.**

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1. Drain the hydraulic oil. Refer to Operation and Maintenance Manual, "Hydraulic System Oil - Change" for the correct draining and filling procedures.
2. Drain the drum drive planetary oil. Refer to Operation and Maintenance Manual, "Drum Drive Planetary Oil - Change" for the correct draining and filling procedures.



Illustration 1

g06020360

3. Attach a suitable lifting device to vibratory compactor (1). Raise vibratory compactor (1).
4. Position vibratory compactor (1) onto suitable cribbing.

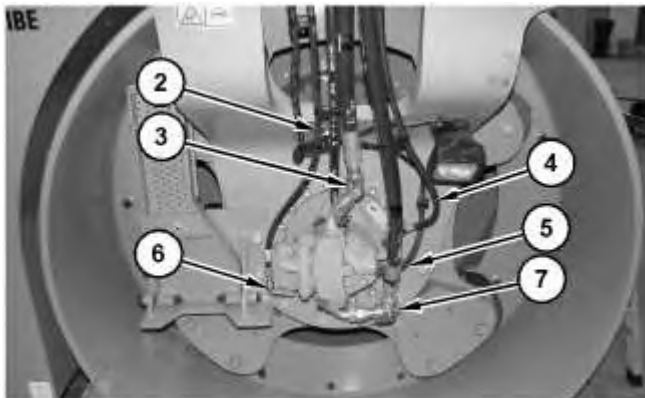


Illustration 2

g06020393

5. Remove bolt (2).
  6. Disconnect hose assemblies (3), (4), (6), and (7).
  7. Disconnect harness assembly (5).
-

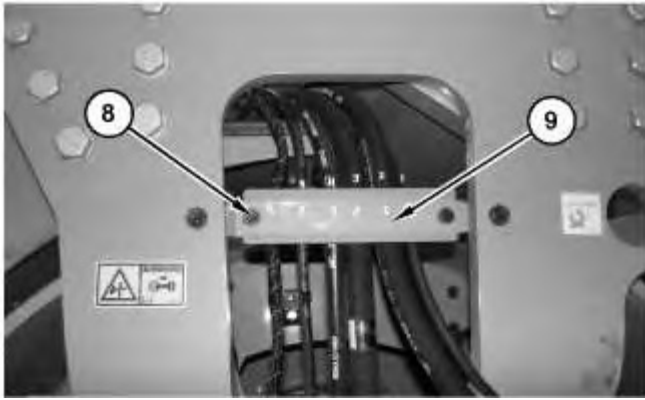


Illustration 3

g06020402

8. Remove bolts (8) and plate (9).

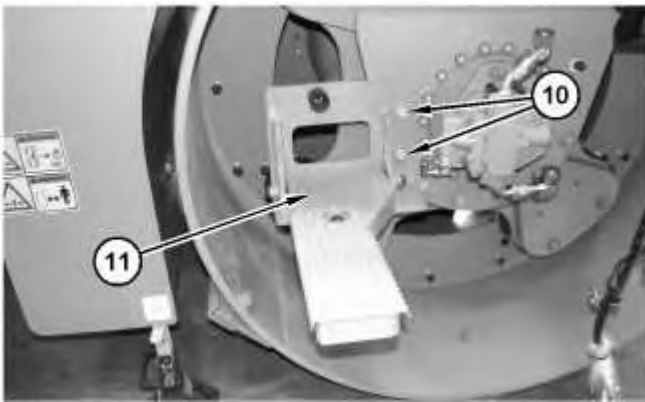


Illustration 4

g06020410

9. Remove bolts (10) and step assembly (11).

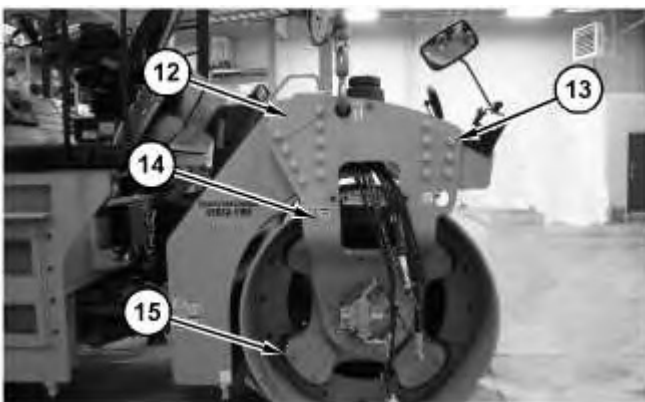


Illustration 5

g06020452

10. Attach a suitable lifting device to support assembly (14). The weight of support assembly (14) is approximately 500 kg (1100 lb).
11. Remove bolts (13) and handle assembly (12).

12. Remove bolts (15) and support assembly (14).

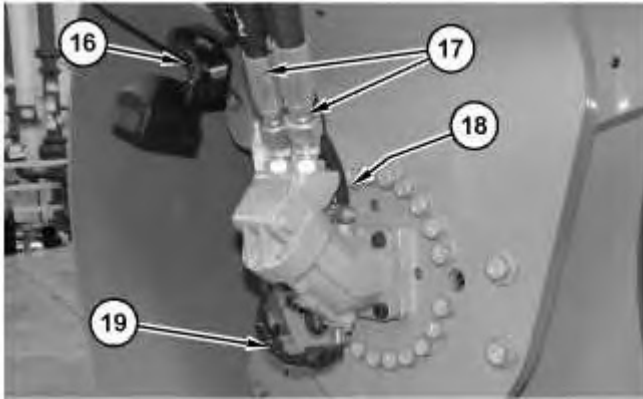


Illustration 6

g06020535

13. Disconnect harness assemblies (16) and (19).
14. Disconnect hose (18) and hose assemblies (17).

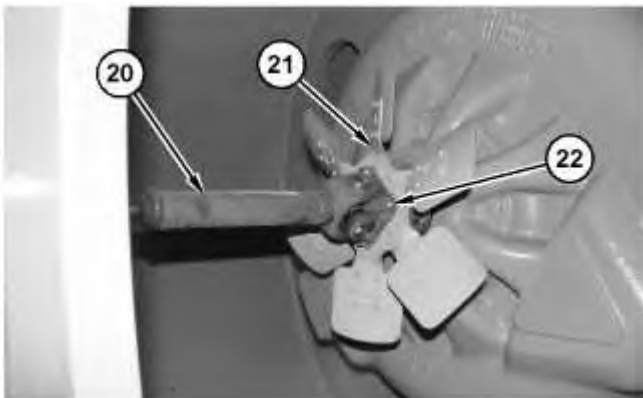
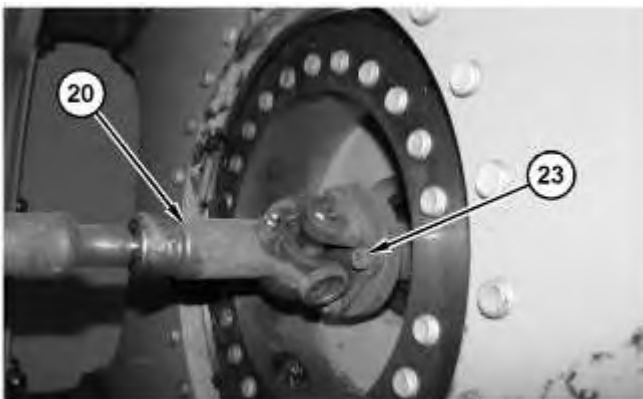


Illustration 7

g06020552

**Note:** Note the orientation of fan (21) for installation purposes.

15. Remove bolts (22) and fan (21). Lower vibratory drive shaft (20).



16. Remove bolts (23) and vibratory drive shaft (20).

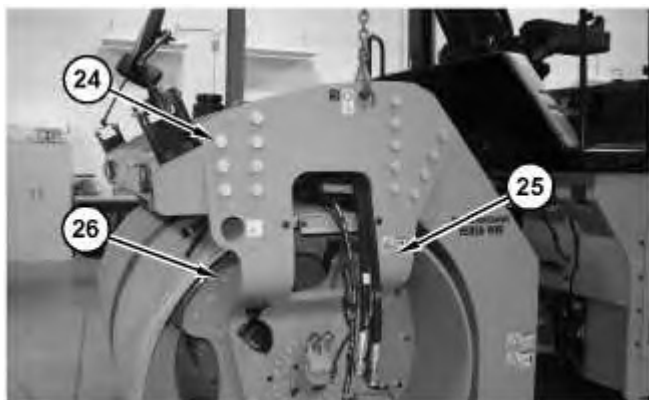


Illustration 9

17. Attach a suitable lifting device to support assembly (25). The weight of support assembly (25) is approximately 455 kg (1000 lb).
18. Remove bolts (24), bolts (26), and support assembly (25).

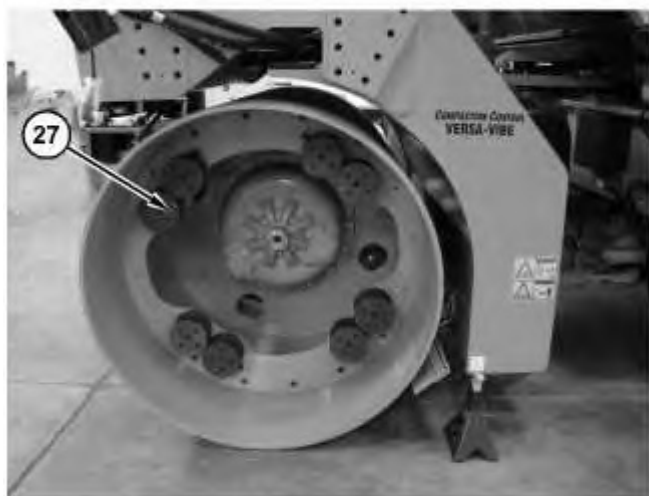


Illustration 10

19. Attach a suitable lifting device to the front of the machine. Raise the front of the machine to allow clearance for drum (27).
20. Remove drum (27). The weight of drum (27) is approximately 2040 kg (4500 lb).
21. Chock drum (27).

## Installation Procedure

1. Install drum (27) in the reverse order of removal.
    - a. Apply Tooling (A) to the threads of bolts (26).
    - b. Apply Tooling (A) to the threads of bolts (23).
    - c. Apply Tooling (A) to the threads of bolts (22).
    - d. Apply Tooling (A) to the threads of bolts (15).
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## Disassembly and Assembly CB13, CB15, and CB16 Asphalt Compactors Machine Systems

Media Number -M0091213-00

Publication Date -01/04/2018

Date Updated -24/04/2018

i07383317

# Drum - Remove and Install - Oscillation

SMCS - 6605-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Loctite 243	1

### Start By:

- a. Release the system pressure.
- b. Engage the steering frame lock.
- c. Remove the drum scraper.
- d. Remove the water spray bar.



**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.**

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1. Insure machine is on a flat level surface before drum is removed.



Illustration 1

g03004523



Illustration 2

g06146720

2. Use suitable lifting device and place vibratory compactor on suitable cribbing.



Illustration 3

g06302995



3. Remove eight bolts (1), the eight washers, and shaft assembly (2).

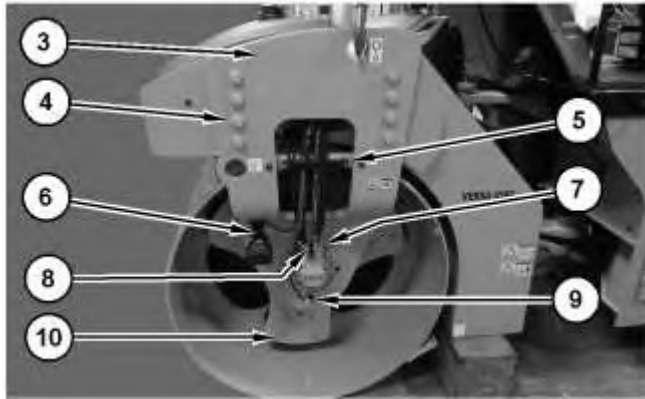


Illustration 4

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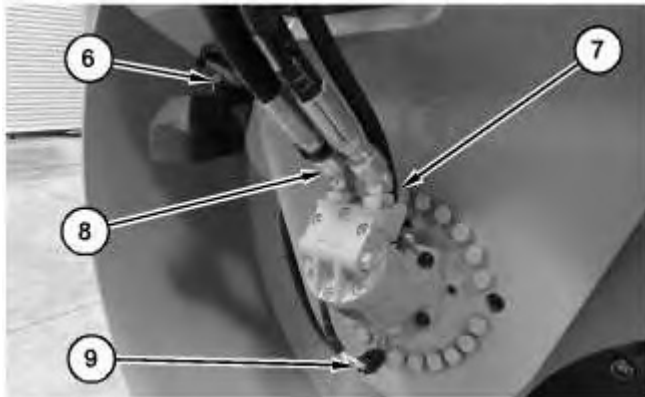


Illustration 5

g06146752

4. Disconnect harness assembly (6) from the light. Disconnect harness assembly (9) from the vibratory motor.
  5. Loosen the clamp and disconnect hose (7) from the vibratory motor. Disconnect two hose assemblies (8) from the vibratory motor.
  6. Remove two bolts (5), the four washers, the two nuts, and the clamp.
  7. Attach a suitable lifting device to drum support (3). Remove eight bolts (4) and the eight washers. Remove the shims (if equipped). Lower drum support (3) and the drum to the ground. Remove six bolts (10), the six washers, and drum support (3).
-

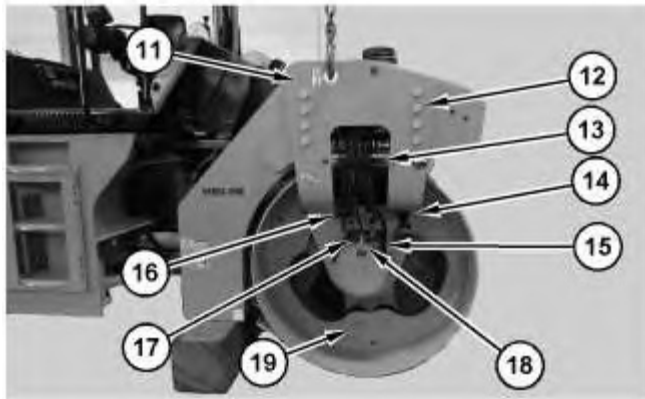


Illustration 6

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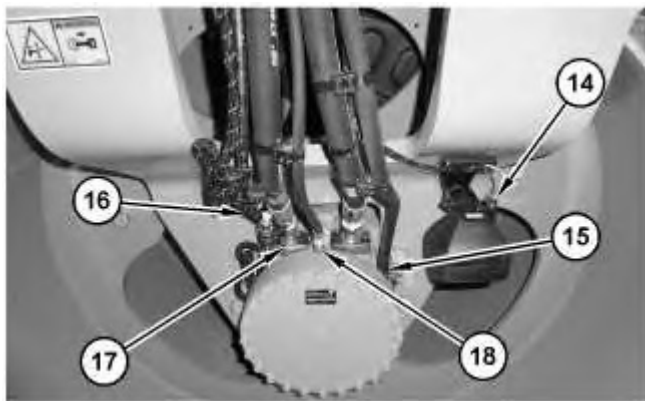


Illustration 7

g06146809

8. Disconnect harness assembly (14) from the light. Disconnect harness assembly (16) from the propel motor.
9. Loosen the clamp and disconnect hose (15) from the propel motor. Disconnect hose assembly (18) from the propel motor. Remove the bolts, the washers, the clamps, two hose assemblies (17).
10. Remove two bolts (13), the four washers, the two nuts, and the clamp.
11. Attach a suitable lifting device to drum support (11). Remove eight bolts (12) and the eight washers. Remove the shims (if equipped). Lower drum support (11) and the drum to the ground. Remove six bolts (19), the six washers, and drum support (11).

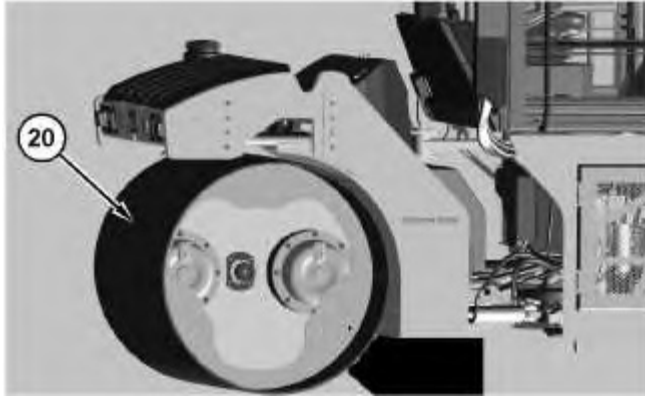


Illustration 8

g06146873

12. Attach a suitable lifting device to the front of the machine. Raise the front of the machine to allow clearance for drum (20). Remove drum (20). The weight of drum (20) is approximately 1289 kg (2842 lb).
13. Chock drum assembly (20).

## Installation Procedure

1. Install drum (20) in the reverse order of removal.
  - a. Apply Tooling (A) to six bolts (19).
  - b. Apply Tooling (A) to six bolts (10).
  - c. Apply Tooling (A) to eight bolts (2).

### End By:

- a. Install the water spray bar.
  - b. Install the drum scraper.
  - c. Disengage the steering frame lock.
-

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Media Number -M0091213-00

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i07331344

# Drum Scraper - Remove and Install

SMCS - 6607-010

## Removal Procedure



Illustration 1

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1. Disconnect hose assemblies (1).



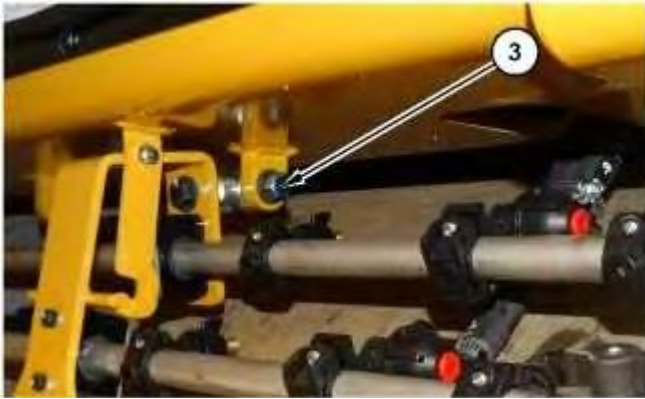


Illustration 3

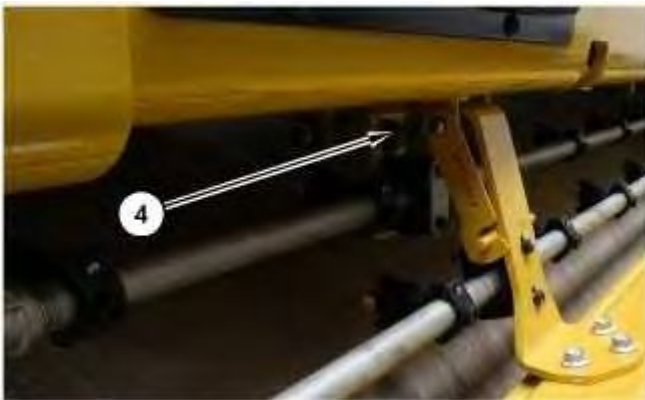


Illustration 4

2. Attach a suitable lifting device to drum scraper (2). The weight of the drum scraper is 32 kg (70 lb). Remove bolt (3), bolt (4), and drum scraper (2).

## Installation Procedure

1. Install drum scraper (2) in the reverse order of removal.
-

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## **Disassembly and Assembly CB13, CB15, and CB16 Asphalt Compactors Machine Systems**

Media Number -M0091213-00

Publication Date -01/04/2018

Date Updated -24/04/2018

i06554499

# **Piston Motor (Drum Propel) - Remove and Install**

SMCS - 5058-010

## **Removal Procedure**

### **Start By:**

- a. Engage the steering frame lock.
- b. Release the system pressure.



**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. Drain the hydraulic oil. Refer to Operation and Maintenance Manual, "Hydraulic System Oil - Change" for the correct draining and filling procedures.
  2. Drain the drum drive planetary oil. Refer to Operation and Maintenance Manual, "Drum Drive Planetary Oil - Change" for the correct draining and filling procedures.
-

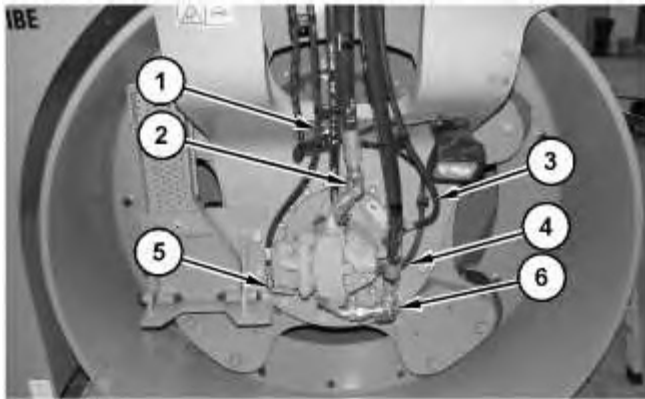


Illustration 1

g06021171

3. Remove bolt (1).
4. Disconnect hose assemblies (2), (3), (5), and (6).
5. Disconnect harness assembly (4).

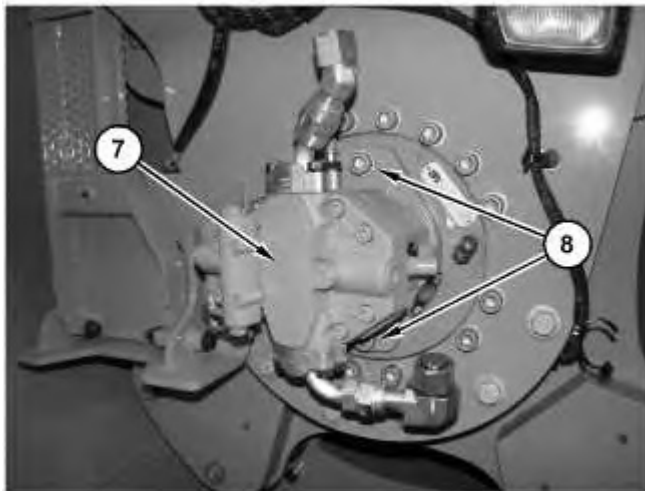


Illustration 2

g06021204

6. Attach a suitable lifting device to piston motor (7). The weight of piston motor (7) is approximately 50 kg (110 lb).
7. Remove bolts (8) and piston motor (7).

## Installation Procedure

1. Install piston motor (7) in the reverse order of removal.

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