

Product: VIBRATORY COMPACTOR

Model: CS-423E VIBRATORY COMPACTOR BWG

Configuration: CS-423E Vibratory Compactor BWG00001-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly CP-433E, CS-423E and CS-433E Vibratory Compactors Machine Systems

Media Number -KENR3584-05

Publication Date -01/09/2008

Date Updated -29/09/2008

i02162349

Piston Motor (Vibratory) - Disassemble

SMCS - 5058-015; 5651-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1853	Retaining Ring Pliers	1
B	1P-1855	Retaining Ring Pliers	1

Start By:

- Remove the piston motor (vibratory). Refer to Disassembly and Assembly, "Piston Motor (Vibratory) - Remove".

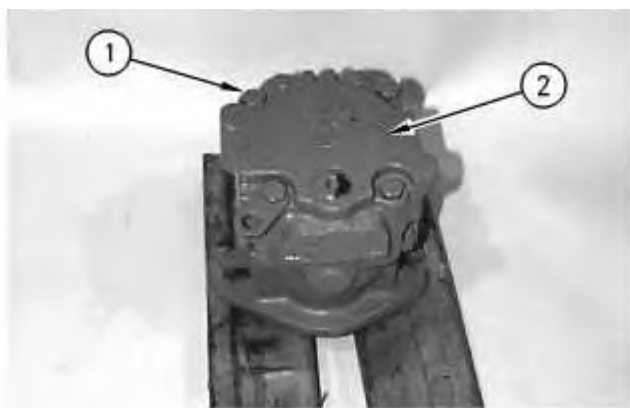


Illustration 1

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1. Remove bolts (1) and remove end cap (2).

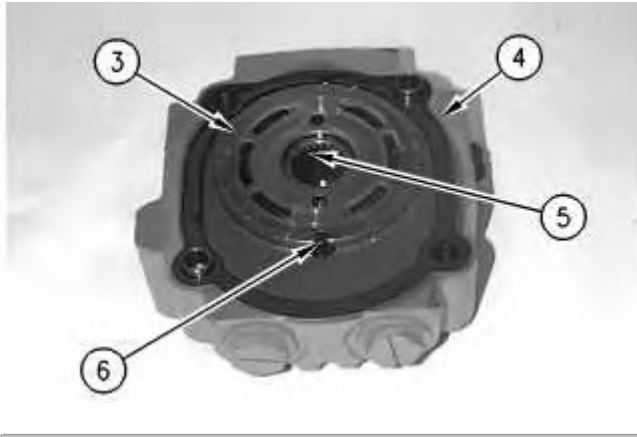


Illustration 2

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2. Remove valve plate (3), gasket (4), bearing (5), and locating pin (6). Bearing (5) is a press fit in end cap (2).

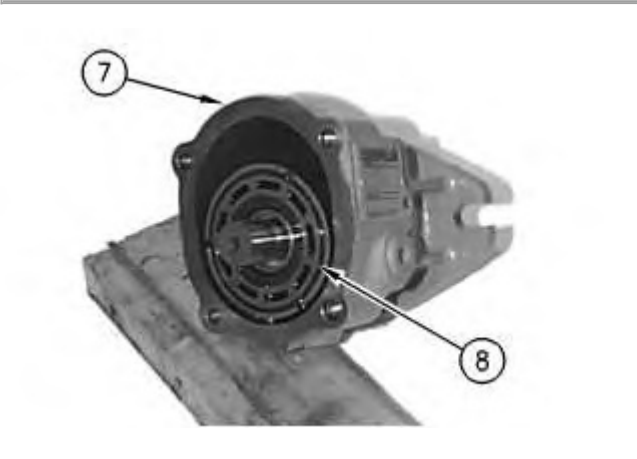


Illustration 3

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NOTICE

During removal of the rotary group (8) from housing (7), do not let the components fall apart. The piston assemblies (9) should be installed in their original bores in the slipper guide (10) and cylinder block (11).

3. Position housing (7) on the side and remove rotary group (8).
-



Illustration 4

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- Put identification marks on pistons (9), on slipper guide (10), and on cylinder block (11).



Illustration 5

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- Remove retainer guide (12), pins (13), and retainer (14).

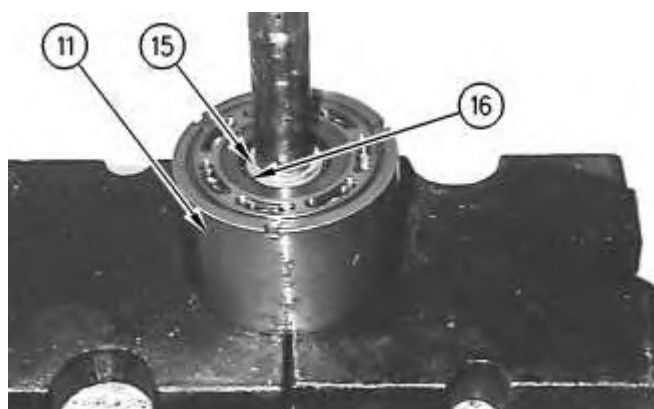


Illustration 6

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Possible injury can result when removing the retaining ring and spring.

Spring force will be released when the retaining ring is removed.

Be prepared to hold the cylinder assembly as the retaining ring is removed.

6. Put cylinder block (11) in a suitable press. Install a suitable drive plate of the same size as the washer (15). Put slight compression on notched washer (15) with the press. Remove retaining ring (16) and slowly release the spring compression.
-

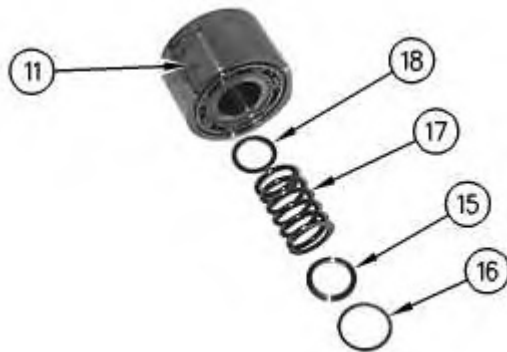


Illustration 7

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7. Remove notched washer (15), spring (17) and washer (18).
-

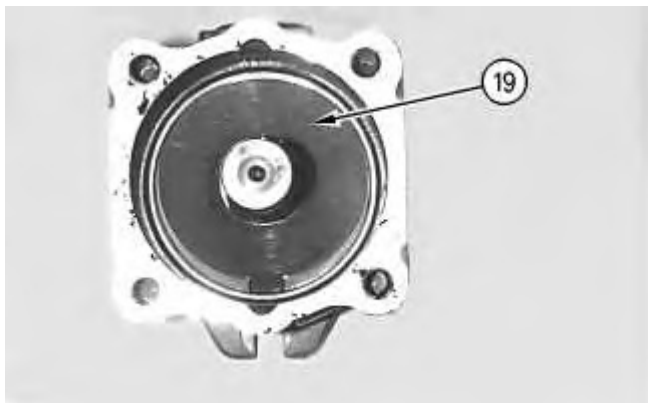


Illustration 8

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8. Remove swashplate (19).
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Illustration 9

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9. Remove O-ring (20).

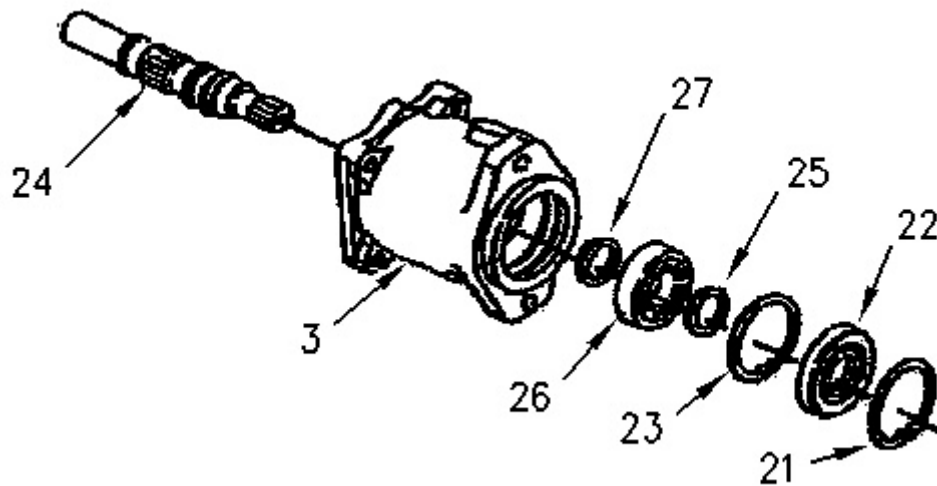


Illustration 10

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10. Use Tooling (A) to remove retaining ring (21). Remove seal (22). Use Tooling (A) to remove retaining ring (23). Remove shaft (24).
11. Use Tooling (B) to remove retaining ring (25). Remove bearing (26). Bearing (26) is a press fit on shaft (24). Use Tooling (B) to remove retaining ring (27).

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Media Number -KENR3584-05

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i02077484

Piston Motor (Vibratory) - Assemble

SMCS - 5058-016; 5651-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1853	Retaining Ring Pliers	1
B	1P-1855	Retaining Ring Pliers	1

1. Inspect all parts and clean all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.
 2. Inspect all seals. Damaged seals must be replaced. Use new Caterpillar seals for replacement.
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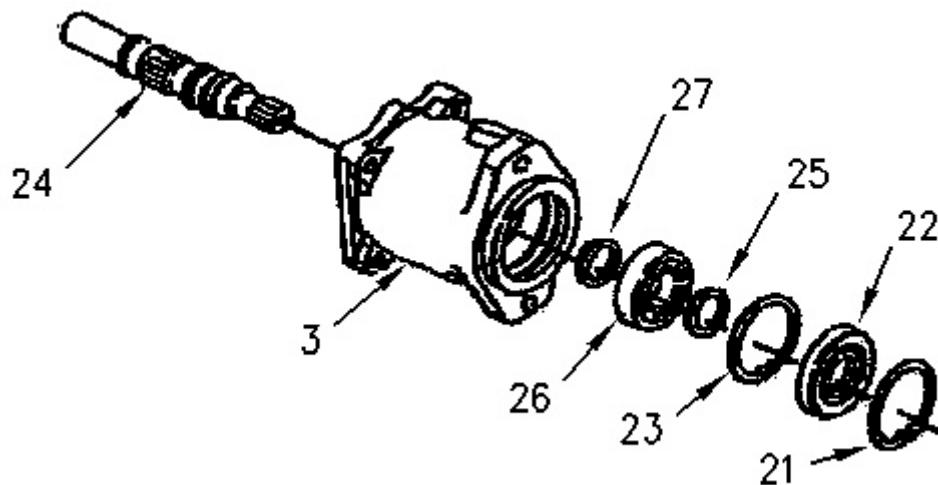


Illustration 1

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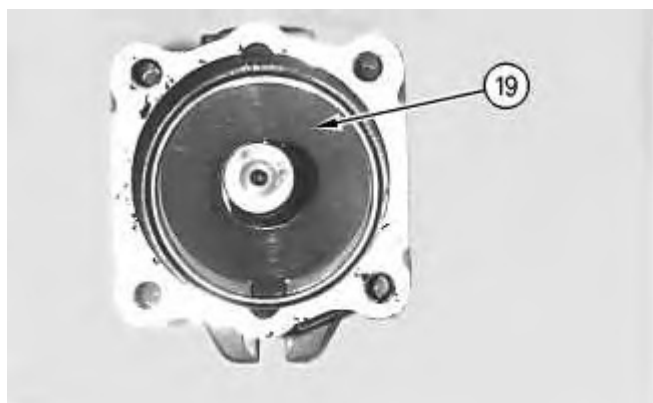
3. Use Tooling (B) to install retaining ring (27). Install bearing (26). Use Tooling (B) to install retaining ring (25). Install shaft (24). Use Tooling (A) to install retaining ring (23). Install seal (22). Use Tooling (A) to install retaining ring (21).



Illustration 2

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4. Install O-ring (20).



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