

Product: VIBRATORY COMPACTOR

Model: CP-433E VIBRATORY COMPACTOR CYE

Configuration: CS-433E,CP-433E Vibratory Compactor CYE00001-UP (MACHINE) POWERED BY 3054 Engine

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

Media Number -KENR3584-05

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i02077483

Piston Pump (Axle Propel and Drum Propel) - Assemble

SMCS - 5070-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1859	Retaining Ring Pliers	1
B	1P-1853	Retaining Ring Pliers	1
C	1P-1861	Retaining Ring Pliers	1
D	1P-1857	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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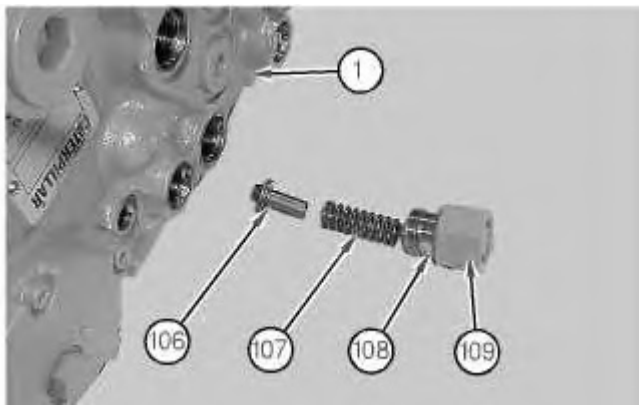


Illustration 1

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WARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

3. Install O-ring seal (108) on charge relief plug (109). Install poppet (106), spring (107), and charge relief plug (109) in propel pump (1) .



Illustration 2

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4. Install O-ring seals (104) on servo assembly (101) .

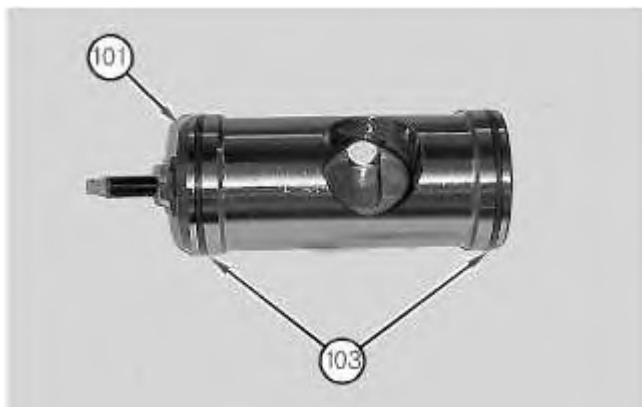


Illustration 3

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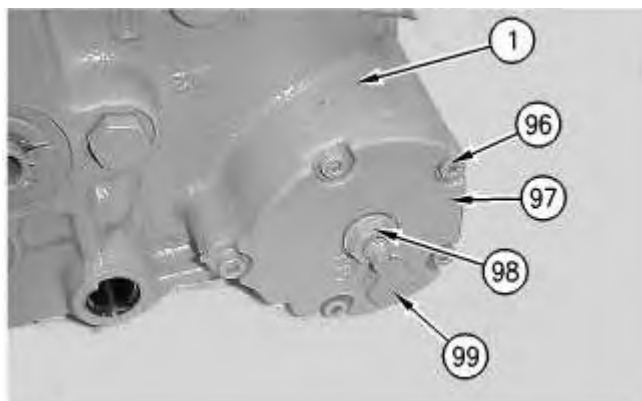
5. Install rings (103) on servo assembly (101) .



Illustration 4

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6. Install bearing (102) in servo assembly (101) .
7. Install gasket (100) on cover (97) .
8. Install cover (97) on servo assembly (101) .



9. Install the servo assembly in propel pump (1) and install screws (96). Tighten the screws to a torque of 16 ± 1 N·m (12 ± 1 lb ft).
10. Install seal nut (98) on cover (97) .
11. Install the O-ring seal on plug (99). Install plug (99) in cover (97) .

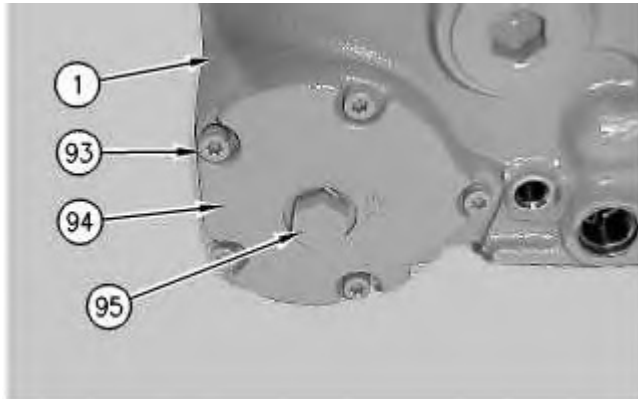


Illustration 6

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12. Install the gasket, cover (94), and screws (93) on propel pump (1). Tighten the screws (93) to a torque of 16 ± 1 N·m (12 ± 1 lb ft).
13. Install the O-ring seal on plug (95). Install plug (95) on cover (94) .

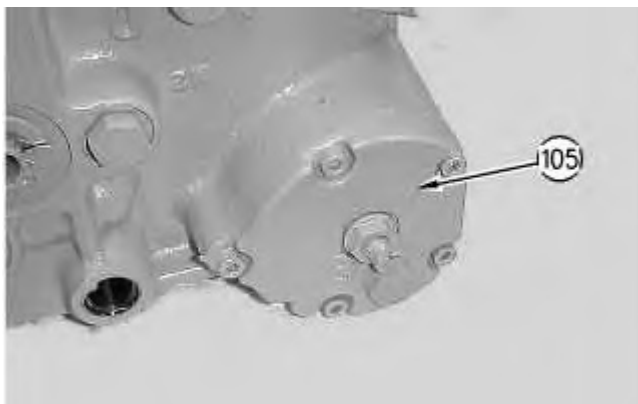


Illustration 7

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14. Repeat Steps 4 through 13 in order to install servo assembly (105) .
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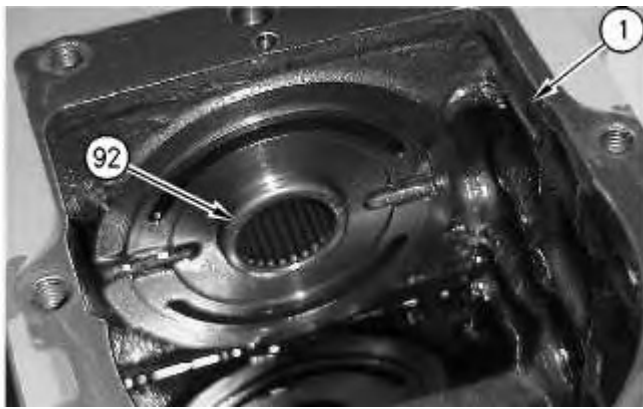


Illustration 8

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15. Install the coupling and bearings (92) on the inside of propel pump (1) .

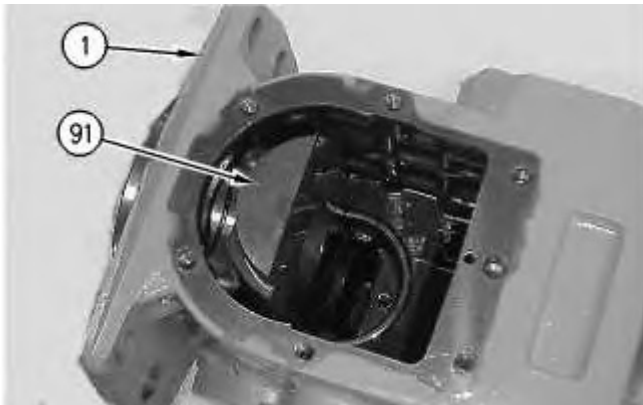


Illustration 9

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16. Install swashplate (91) in propel pump (1) .

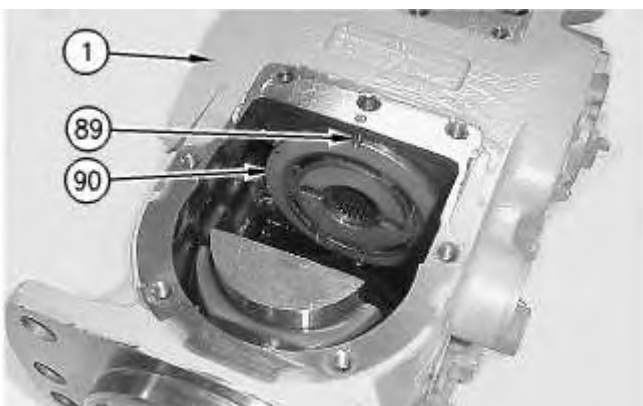


Illustration 10

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17. Install valve plate (90) and pin (89) in propel pump (1) .

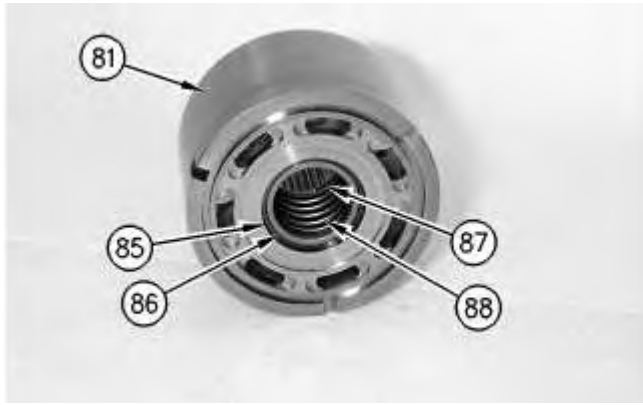


Illustration 11

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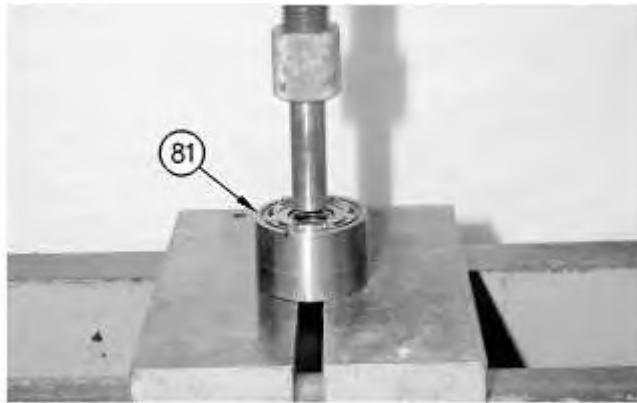


Illustration 12

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WARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

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18. Install washer (87), spring (88), and washer (86) in cylinder block (81) .
 19. Put cylinder block (81) in a suitable press. Install a suitable drive plate of the same size as washer (86). Put slight compression on washer (86) with the press. Use Tooling (D) to install retaining ring (85). Slowly release the spring compression.
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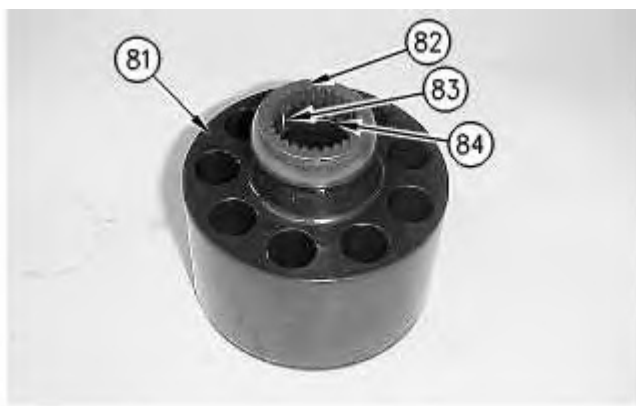


Illustration 13

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20. Install pin retainer (84), pins (83), and slipper retainer guide (82) on cylinder block (81) .

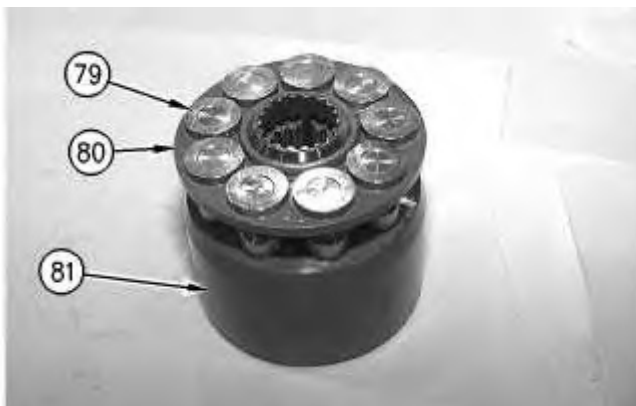


Illustration 14

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21. Install slipper retainer (80) and piston assemblies (79) into cylinder block (81) .

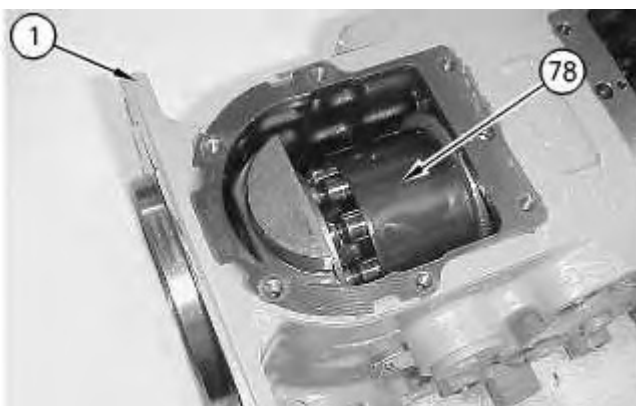


Illustration 15

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22. Install cylinder block assembly (78) into propel pump (1) .

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