

Product: VIBRATORY COMPACTOR

Model: CB-534 VIBRATORY COMPACTOR 2EG

Configuration: CB-534 VIBRATORY COMPACTOR 2EG00001-UP (MACHINE)

Disassembly and Assembly CB-534 VIBRATORY COMPACTOR VEHICLE SYSTEMS

Media Number -KENR1288-01

Publication Date -01/10/2004

Date Updated -02/12/2004

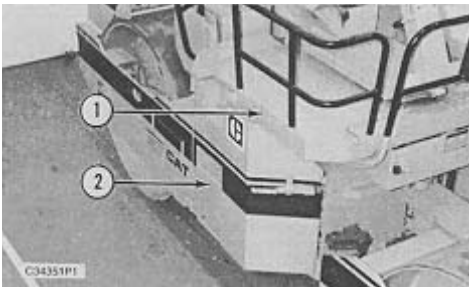
KENR12880004

Propel & Vibratory Pumps

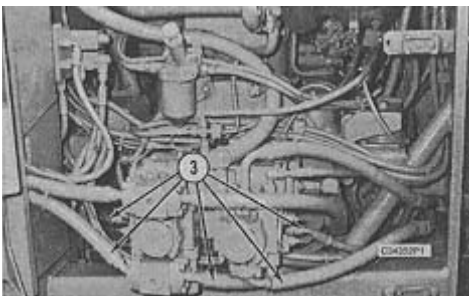
SMCS - 5070-010; 5070-015; 5070-016

Remove & Install Propel & Vibratory Pumps

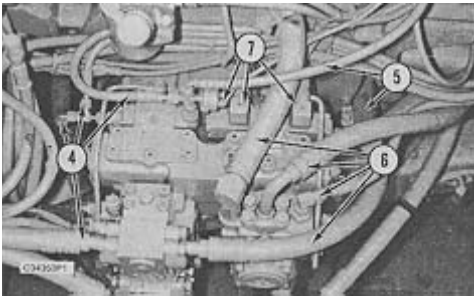
NOTE: Identify all hydraulic lines as they are removed for reinstallation purposes. Cap and plug all lines and fittings to prevent any contaminants from entering the hydraulic system.



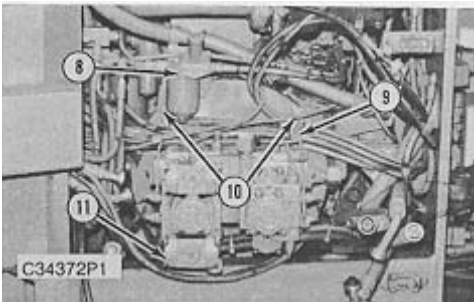
1. Open door (2) and lift floor panel (1).



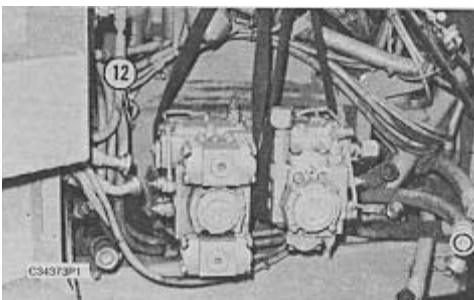
2. Remove five hoses (3).



3. Remove four hoses (4), two hoses (5), four hoses (6) and three wires (7).



4. Remove primary fuel filter base and priming pump (8). Remove bracket (9). Install two studs (3/8- 16 x 4 in) in place of bolts (10). Remove clamp from hose (11).



5. Fasten a lifting device to the pumps with lifting straps. Remove the remaining five bolts (12). Move the propel and vibratory pumps away from the engine. The weight of propel and vibratory pumps is 114 kg (250 lb).

NOTE: To install propel and vibratory pumps, reverse the removal steps.

Disassemble Propel & Vibratory Pumps

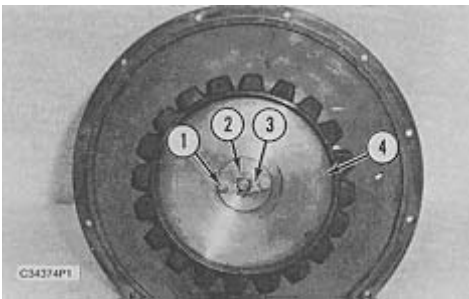
| Tools Needed | | A | B |
|--------------|--------|---|---|
| 5P4768 | Pliers | 1 | |
| 1P1859 | Pliers | | 1 |

Start By:

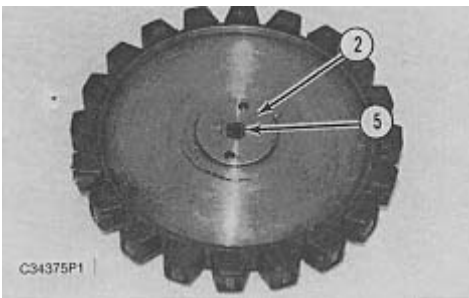
a. remove propel and vibratory pumps

NOTICE

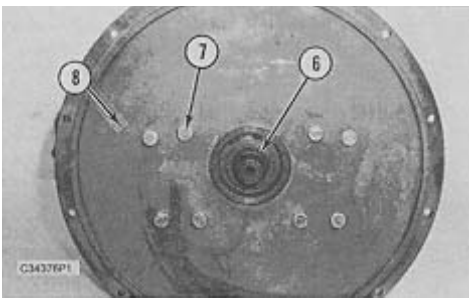
Dirt can damage precision made parts of the pump. Disassemble the pump on a clean work surface. Clean all the parts separately in clean solvent and let the parts dry at room temperature. Check the condition of all parts and refer to Guideline For Reusable Parts, Piston Pumps and Motors, Form No. SEBF8032-01 as a guide for reconditioning and determining the reusability of parts.



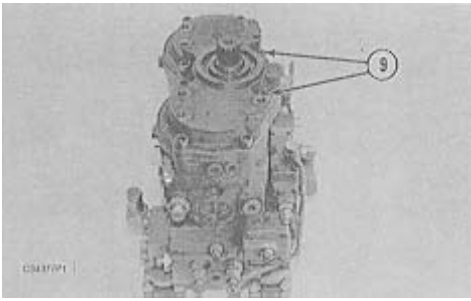
1. Remove two bolts and lockwasher (1). Remove the center bolt and lock plate (3). Remove the slewing ring (4).



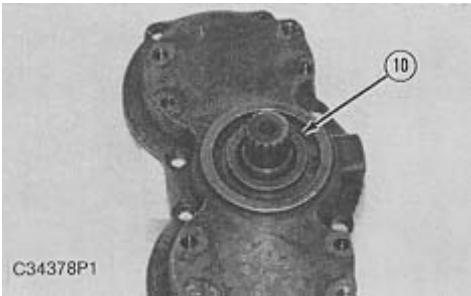
2. Remove O-ring (5). Remove stop plate (2) and the O-ring from the backside of stop plate (2).



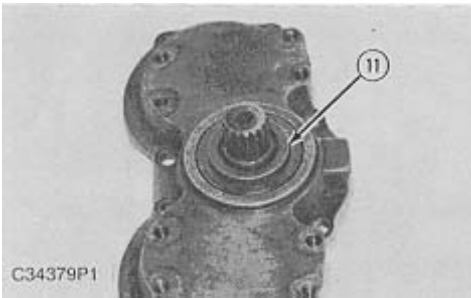
3. Remove O-ring (6). Remove eight bolts (7) and support (8).



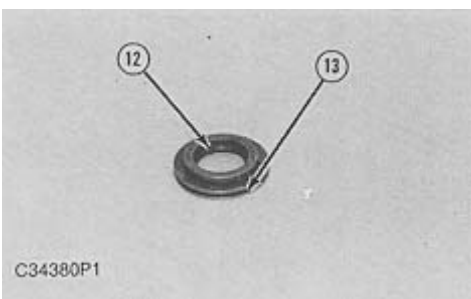
4. Remove eight bolts (9) and remove the cover.



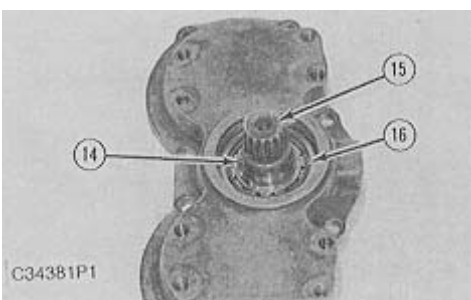
5. Use plier (A) to remove snap ring (10).



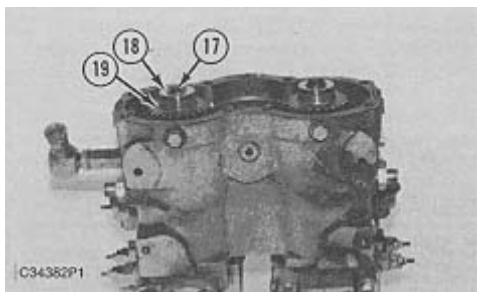
6. Use a screwdriver to pry seal assembly (11) from the cover.



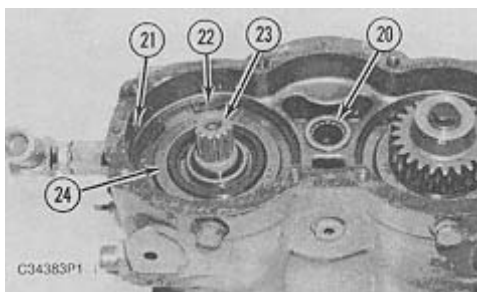
7. Remove seal (12) and O-ring (13) from the seal assembly.



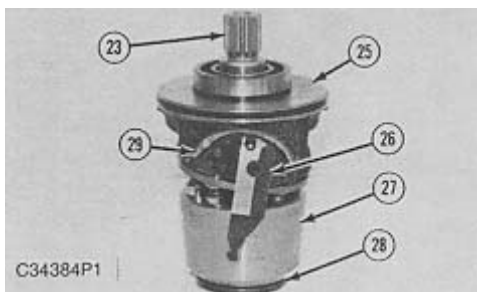
8. Use plier (B) to remove snap ring (14). Shaft (15) will come out of the bottom of the housing and bearing (16) will come out of the top of the housing.



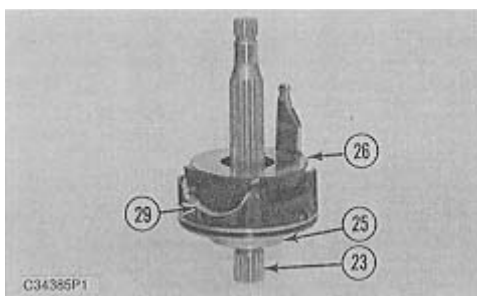
9. Remove bolt and washer (17). Remove plate (18) and gear (19).



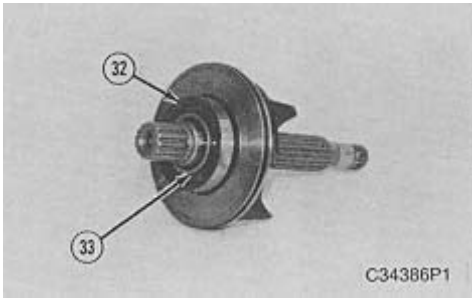
10. Remove bearing (20). Loosen bolt (21) for clearance. Use plier (A) to remove snap ring (22). Pry spacer (24) from the housing and remove rotary group assembly and shaft (23) from the housing.



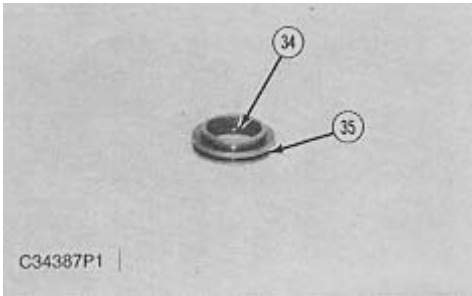
11. Remove shaft (23), bearing flange (25), swivel bearings (29), rocker device (26) and port plate (28) from cylinder (27).



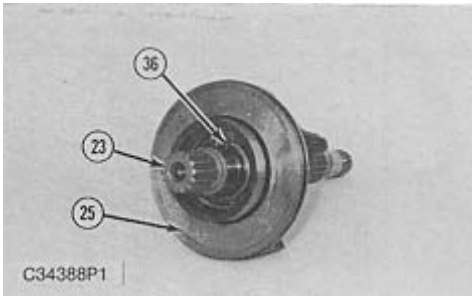
12. Remove rocker device (26) and swivel bearings (29) from drive shaft (23) and bearing flange (25).



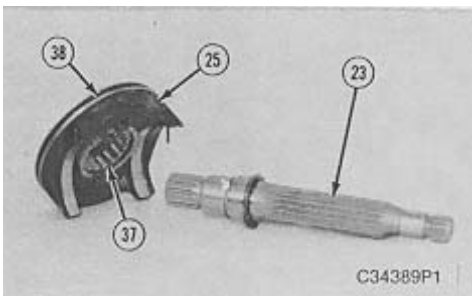
13. Use plier (A) to remove snap ring (32). Pry seal assembly (33) out with a screwdriver.



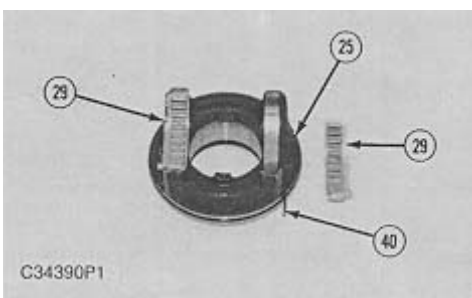
14. Remove seal (34) and O-ring (35).



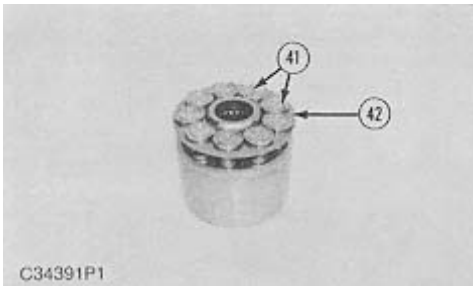
15. Use plier (B) to remove snap ring (36). Remove flange (25) from shaft (23).



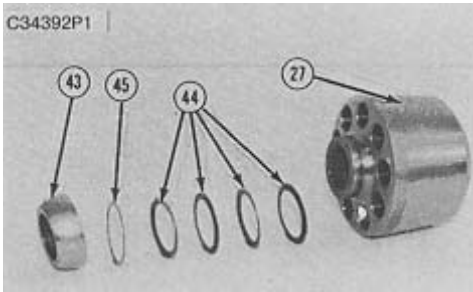
16. Remove bearing (37) and O-ring (38) from flange (25).



17. Remove swivel bearings (29) from flange (25). [Pins (40) hold the swivel bearings in place].

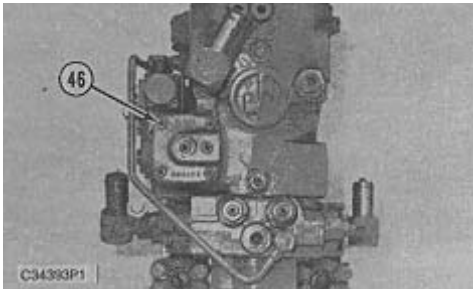


18. Remove pistons (41) and retaining plate (42).

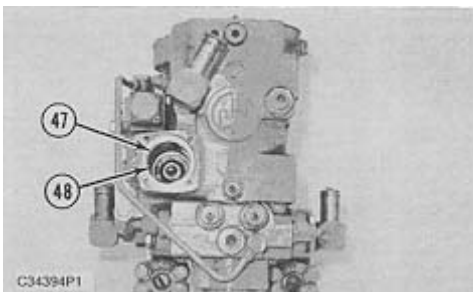


19. Remove ball (43), cup springs (44) and shims (45) from cylinder (27).

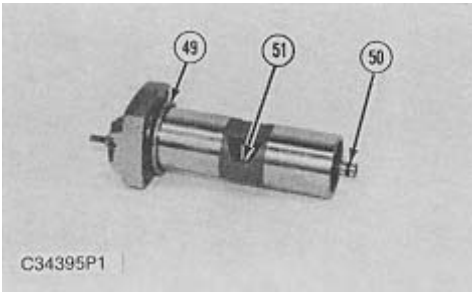
20. Repeat Steps 1 through 19 on the other pump.



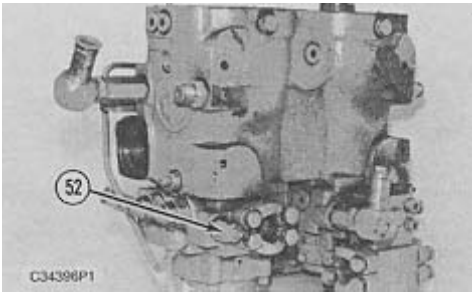
21. Remove four bolts (46) and remove the housing.



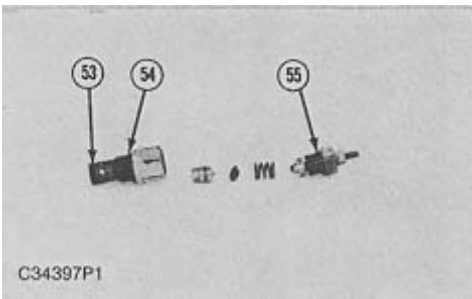
22. Remove brass sleeve (47) and steel bushing (48).



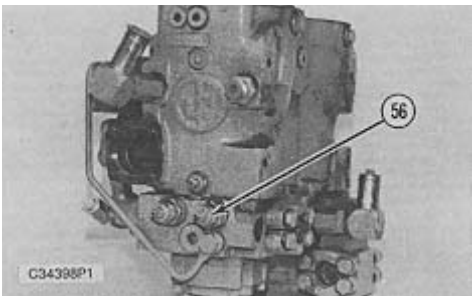
23. Remove O-rings (49) and (50).



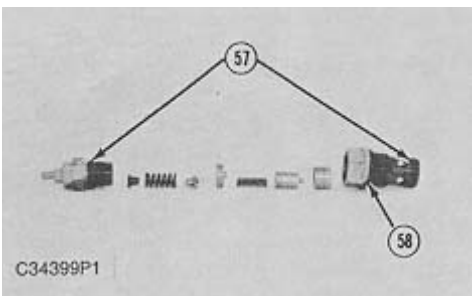
24. Remove pressure relief valve (52).



25. Remove O-ring (53), O-ring (54) and O-ring (55).



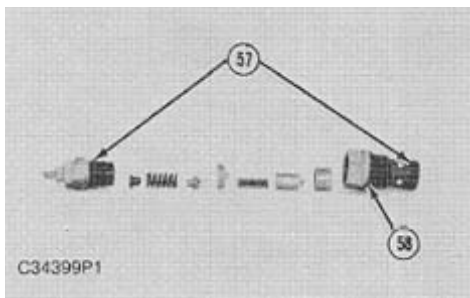
26. Remove relief valve (56).



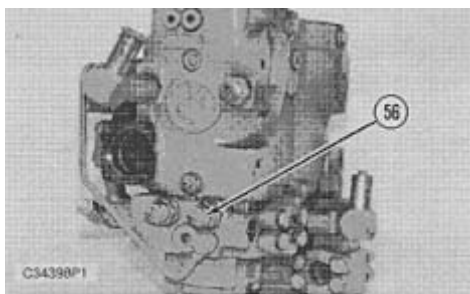
27. Remove two O-rings (57) and O-ring (58).

Assemble Propel & Vibratory Pumps

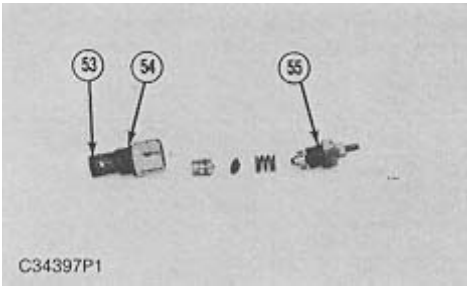
| Required Tools | | | |
|----------------|-------------|-----------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 5P-1667 | Spacer Tube | 1 |
| B | 1P-5546 | Crossarm | 1 |
| C | 1P-1862 | Pliers | 1 |
| D | 1P-1861 | Retaining Ring Pliers | 1 |
| E | 135-8292 | Alignment Plug | 1 |
| F | 135-8296 | Test Ring | 1 |
| G | 128-2744 | Measuring Bell | 1 |
| H | 135-8294 | Measuring Hub | 1 |
| J | 147-8292 | Spring Compressor | 1 |
| K | 9U-5719 | Shrink Tubing | 1 |



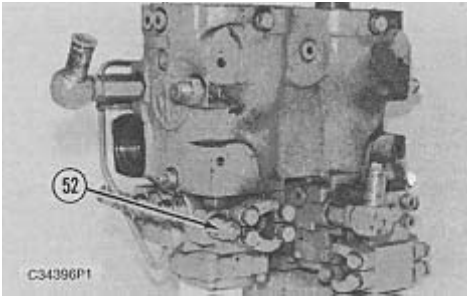
1. Install two O-rings (57) and O-rings (58).



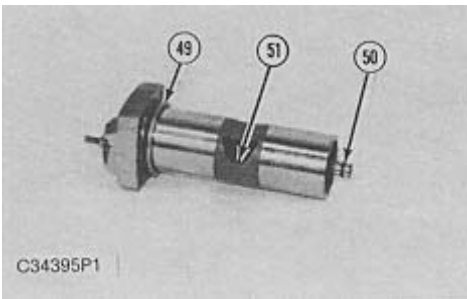
2. Install relief valve (56).



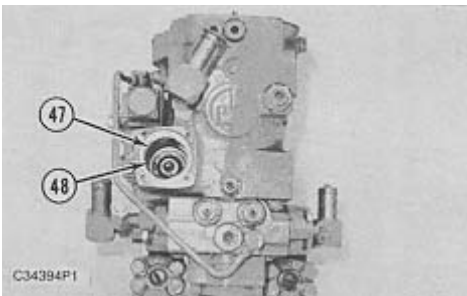
3. Install new O-rings (53), (54) and (55). Assemble the relief valve.



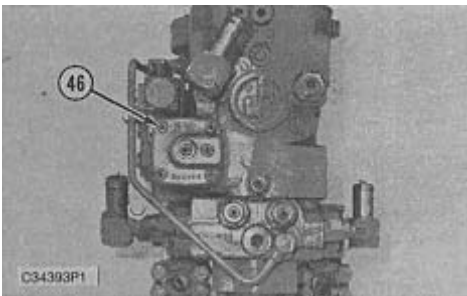
4. Install relief valve (52).



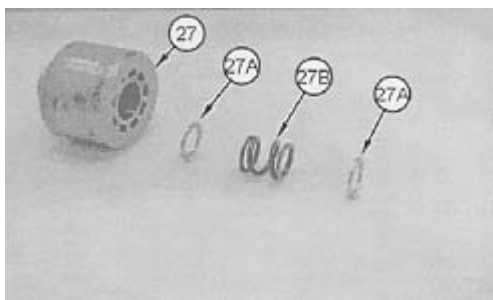
5. Install new O-rings (49) and (50).



6. Install brass sleeve (47) and bushing (48).

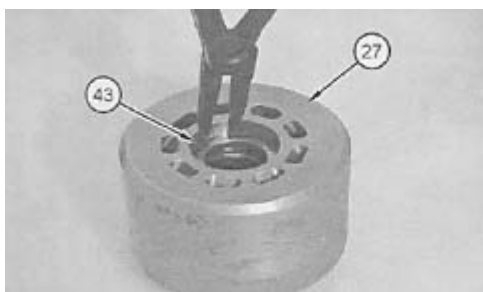


7. Install the valve housing and fasten with four bolts (46).



8. The following steps are for the assembly of the rotating group.

a. Install washers (27B) and spring (27A) to barrel assembly (27).



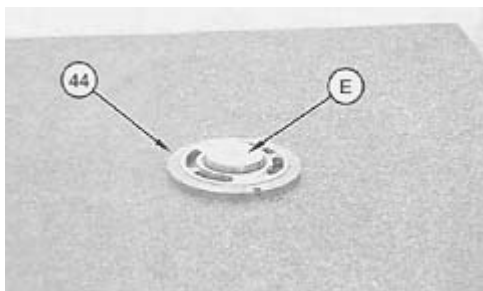
⚠ WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

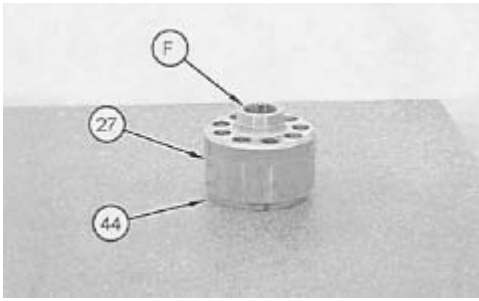
Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

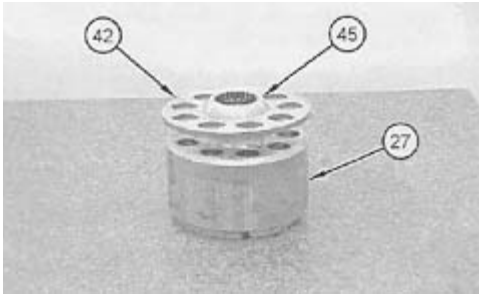
b. Use the retaining ring pliers in order to install retaining ring (43) to barrel assembly (27).



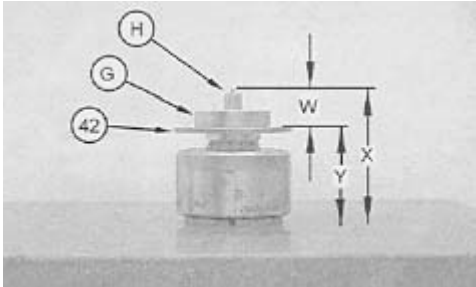
c. Place port plate (44) onto a surface plate. Place Tooling (E) on the inside diameter of port plate (44), with the chamfered side facing upward. The flat side of the port plate should rest on the surface plate.



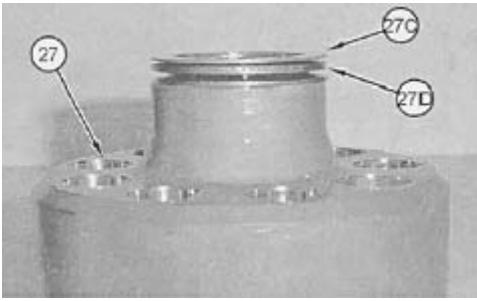
- d. Install cylinder block (27) onto Tooling (E) and port plate (44).
- e. Install Tooling (F) on top of the cylinder block (27) as shown.



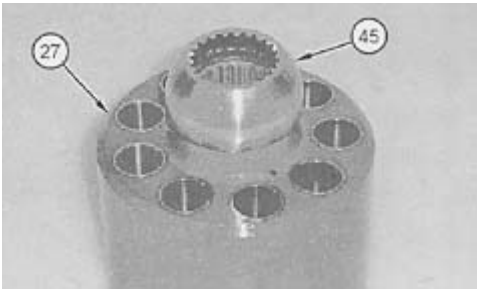
- f. Make sure that all the springs and shims have been removed from ball joint (45). Install the ball joint over Tooling (F).
- g. Install retainer plate (42) on ball joint (45).



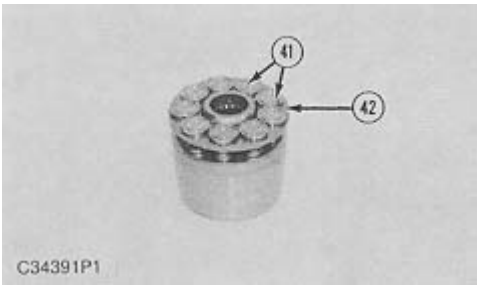
- h. Bolt Tooling (G) and (H) together. Place Tooling (G) and (H) on top of the retainer plate (42), as shown.
 - i. Measure the distance from the top of the surface plate to the top of Tooling (G). Record this dimension as Dimension (X). Measure the distance from the top of Tooling (G) to the top of retainer plate (42). Record this dimension as Dimension (W). Subtract Dimension (W) from Dimension (X) in order to obtain Dimension (Y). Dimension (Y) is the lift-off height.
- NOTE:** The correct lift-off limitation is $100.060 + 0.0 - 0.200$ mm ($3.9394 + 0.0 - 0.0079$ inch). Call this height Dimension (Z).
- j. Subtract Dimension (Y) from Dimension (Z) in order to obtain the thickness of shim (27C). This will provide the correct lift-off height.



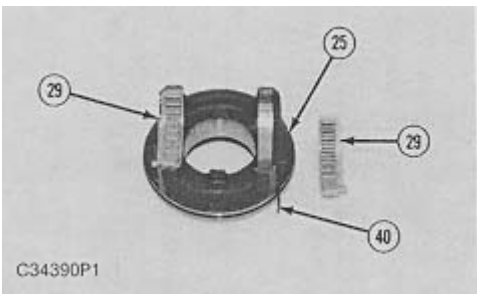
k. Install spring assembly (27D) and shim (27C) to barrel assembly (27).



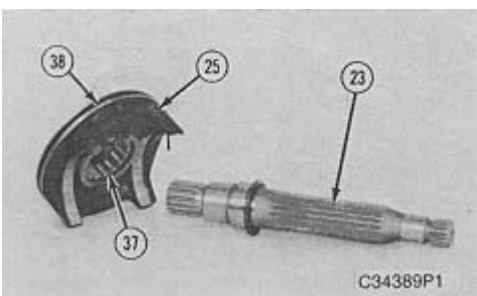
l. Install ball joint (45) to barrel assembly (27).



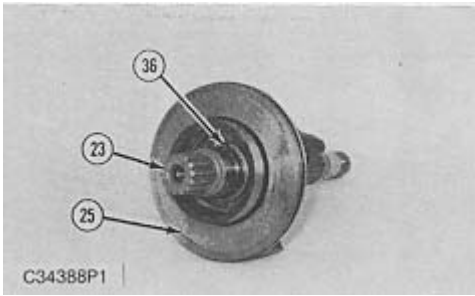
9. Install pistons (41) and retainer (42) in the cylinder.



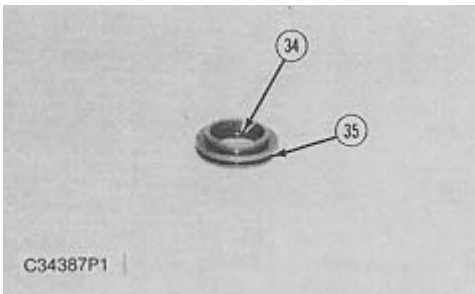
10. Position bearings (29) on flange (25). Pins (40) hold bearings (29) in position.



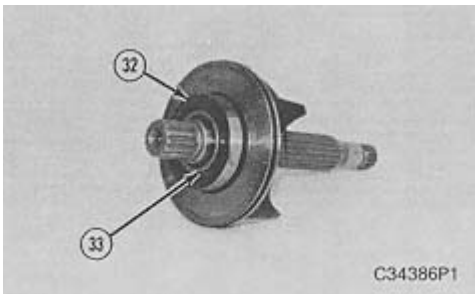
11. Install bearing (37) and O-ring (38) on flange (25).



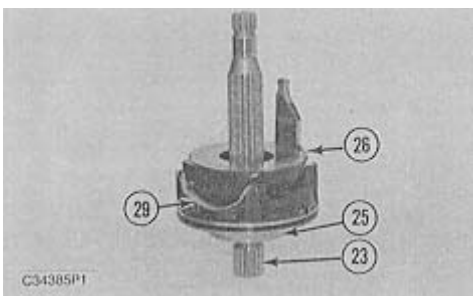
12. Install shaft (23) in flange (25). Use plier (B) to install snap ring (36). Check the shaft for end play. The maximum end play is 0.30mm (.012 in). If end play is excessive, install shim(s) under snap ring (36). See Propel System Specifications, Form KENR2420, for shim specifications.



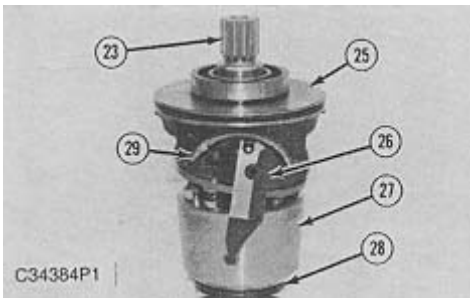
13. Install seal assembly (33) and use plier (C) to install snap ring (33).



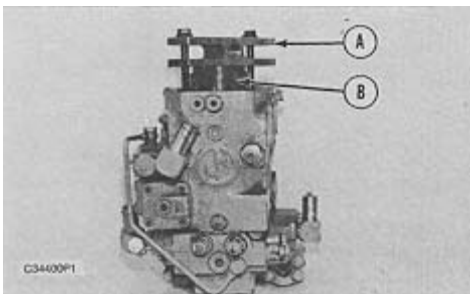
14. Install seal assembly (33) and use plier (C) to install snap ring (33).



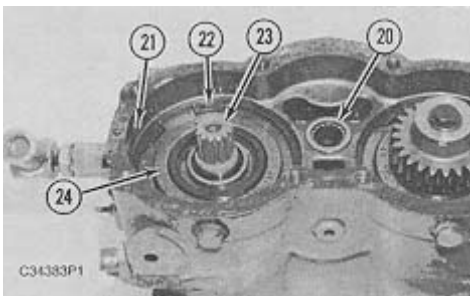
15. Install rocker device (26) and bearings (29) on shaft (23) and flange (25).



16. Install shaft (23), flange (25), bearings (29), and rocket device (26) on cylinder (27).

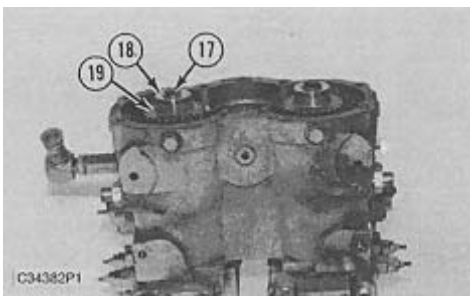


17. Use bushing (A) and cross block (B) to press the rotary group assembly into the housing.



18. Install spacer and use plier (C) to install snap ring (22).

19. Install plug (21) and bearing (20).



20. Install pinion (19), spacer (18) and bolt (17). Tighten bolt (17) to a torque of 50 N·m (37 lb ft).

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