

Product: WHEEL DOZER

Model: 824K WHEEL DOZER 2T2

Configuration: 824K Wheel Dozer 2T200001-UP (MACHINE) POWERED BY C15 Engine

Disassembly and Assembly

826K Landfill Compactor, 825K Soil Compactor and 824K Wheel Dozer Machine Systems

Media Number -UENR3817-03

Publication Date -01/04/2015

Date Updated -23/06/2017

i07556080

Piston Pump (Steering) - Disassemble

SMCS - 4306-015-QP; 5070-015-ZH

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8H-0663	Bearing Puller Gp	1
B	1P-0510	Driver Group	1

Start By:

- Remove the piston pump.
 - Remove the coupler.
-

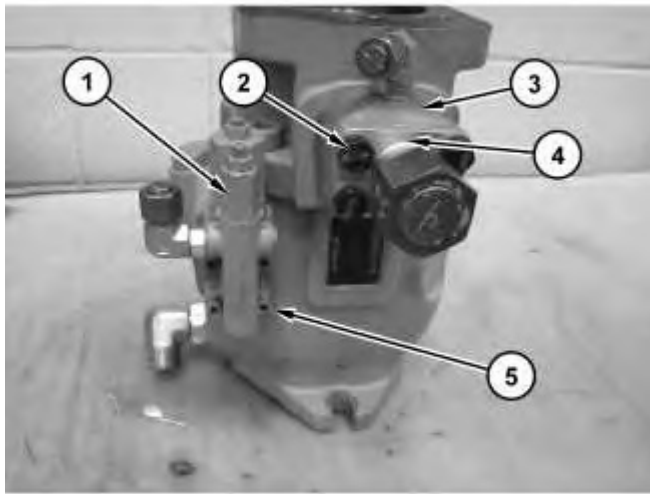


Illustration 1

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1. Remove bolts (2) , adapter (4), block (3), and the O-ring seals.
2. Remove bolts (5) , valve group (1), and the gasket.

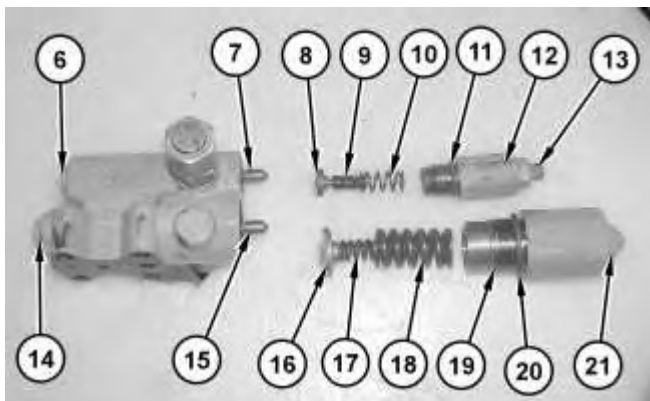


Illustration 2

g03577116



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.

3. Remove plug (6) and the O-ring seal.
4. Remove plug (14) and the O-ring seal.
5. Remove valve (12), spool (7), retainer (8), spring (9), spring (10), O-ring seal (11), and screw assembly (13).
6. Remove valve (19), spool (15), retainer (16), spring (17), spring (18), O-ring seal (20), and screw assembly (21).



Illustration 3

g03577136

7. Remove bolts (22) and head (23).

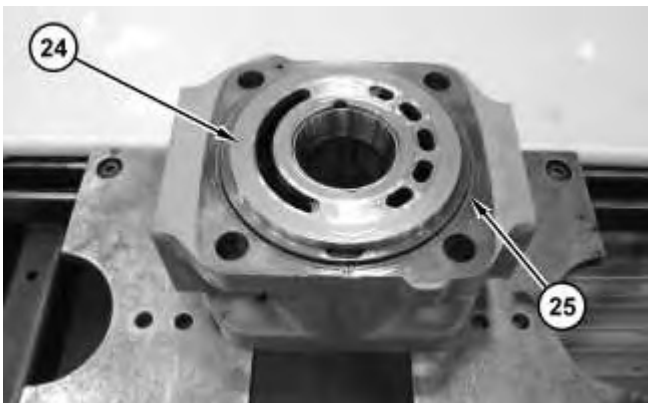


Illustration 4

g03577163

8. Remove thrust plate (24) and O-ring seal (25).
-

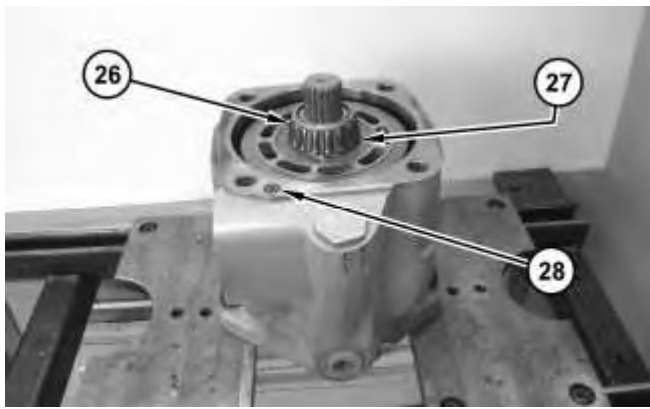


Illustration 5

g03577177

9. Remove bearing cone (26). Remove spacer (27). Remove O-ring seal (28).

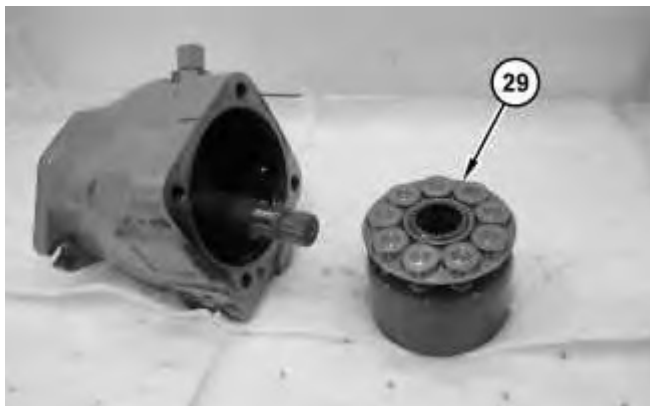


Illustration 6

g03577197

10. Remove rotating group (29).

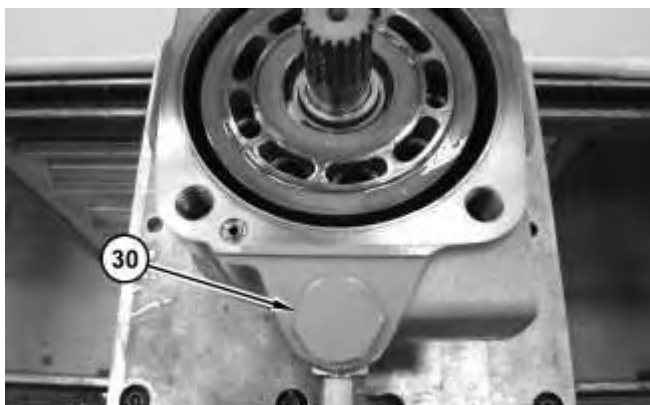


Illustration 7

g03577379

11. Remove plug (30) and the O-ring seal.

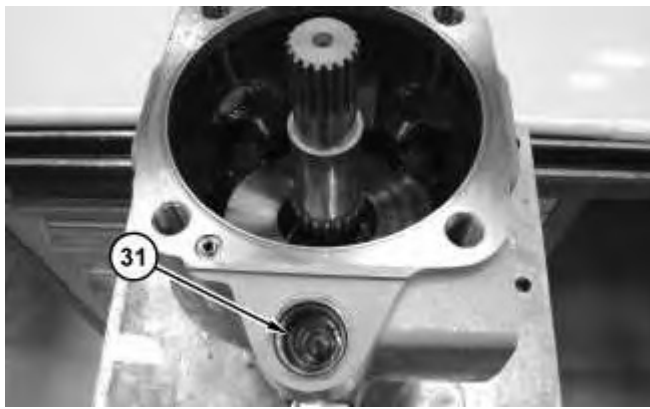


Illustration 8

g03577417

12. Remove piston (31).



Illustration 9

g03577438

13. Remove swashplate (32).

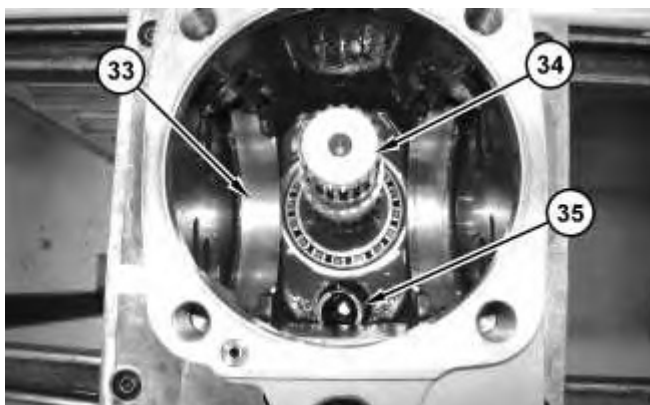


Illustration 10

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14. Remove bearings (33), shaft (34), and spring (35).

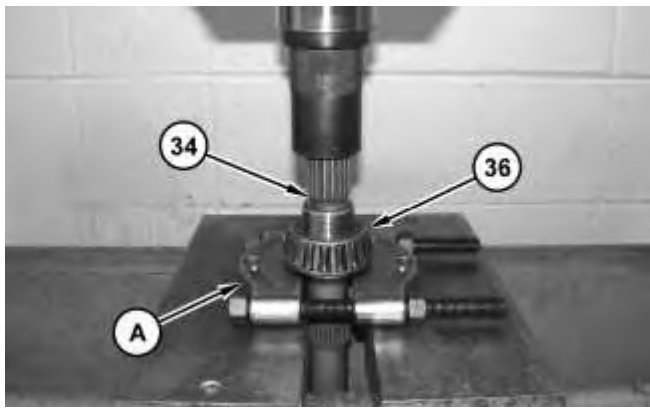


Illustration 11

g03577470

15. Use Tooling (A) and a suitable press to remove bearing cone (36) from shaft (34).

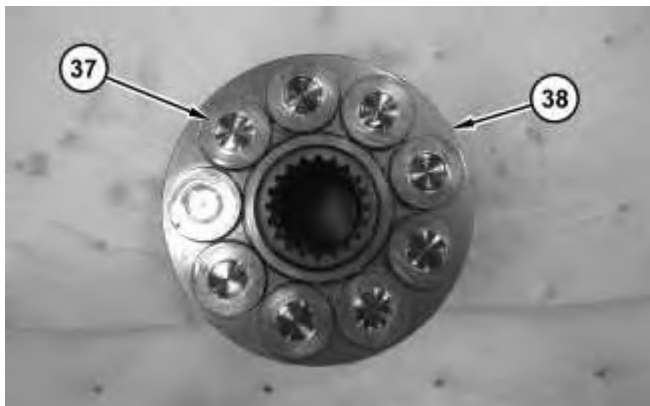


Illustration 12

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Illustration 13

g03577496

16. Remove pistons (37) and retainer (38) from barrel (39).
17. Remove bearing (40) from barrel (39).

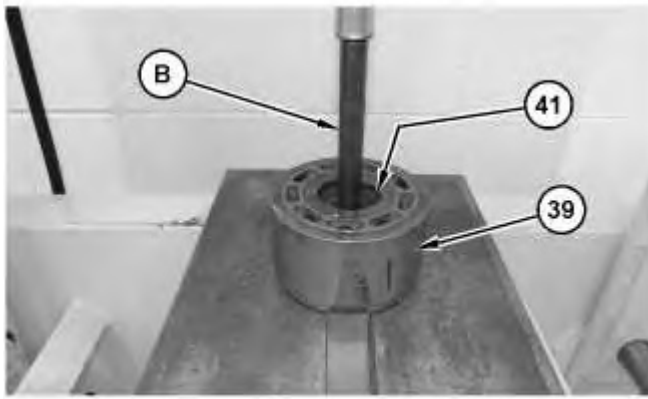


Illustration 14

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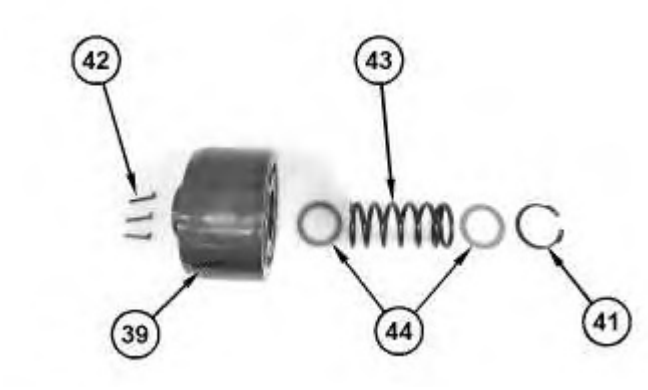


Illustration 15

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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.

18. Use Tooling (B) and a suitable press to remove retaining ring (41) from barrel (39).
19. Remove washers (44), spring (43), and pins (42) from barrel (39).



Illustration 16

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20. Remove bearing cup (45) from housing (46).

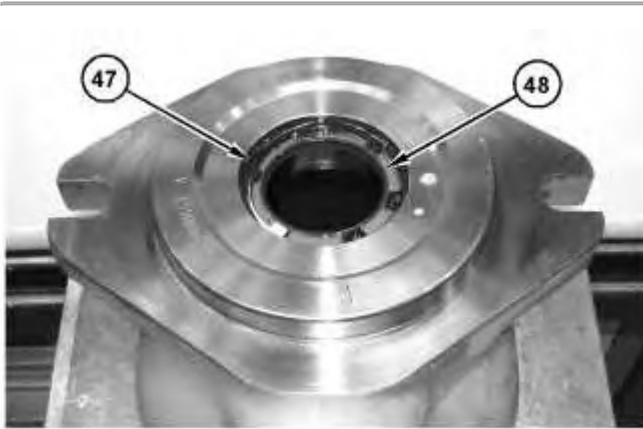


Illustration 17

g06358554

21. Remove retaining ring (47).
22. Use Tooling (B) to remove lip seal (48).
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i07556081

Piston Pump (Steering) - Assemble

SMCS - 4306-016-QP; 5070-016-ZH

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	1P-0510	Driver Group	1
C	6V-2055	Grease	1

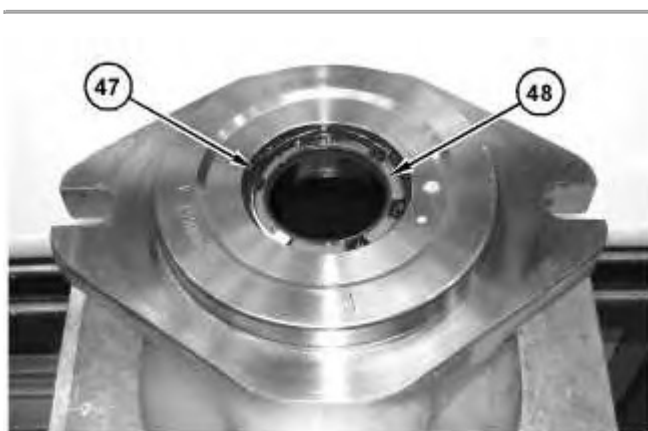


Illustration 1

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1. Use Tooling (B) to install lip seal (48) and retaining ring (47).



Illustration 2

g06358551

2. Lower the temperature of bearing cup (45). Use Tooling (B) to install bearing cup (45) into housing (46).

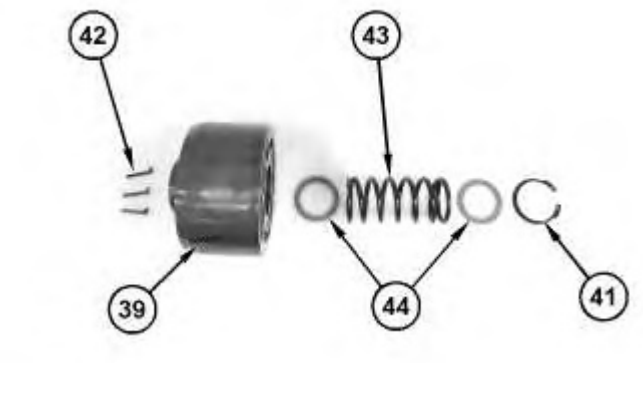


Illustration 3

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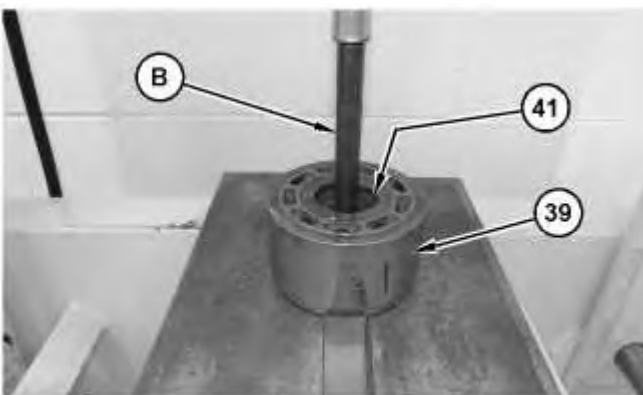


Illustration 4

g06358546



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.

3. Install pins (42), spring (43), and washers (44) into barrel (39).
 4. Use Tooling (B) and a suitable press to install retaining ring (41) into barrel (39).
-



Illustration 5

g03577496

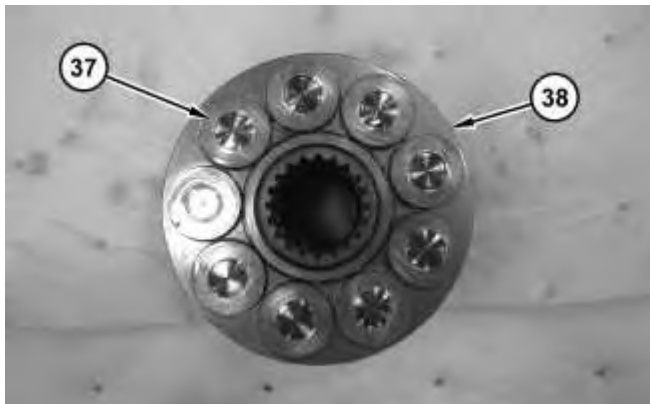


Illustration 6

g03577468

5. Install bearing (40) on barrel (39).
 6. Install pistons (37) and retainer (38) into barrel (39).
-



Illustration 7

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7. Raise temperature of bearing cone (36). Install bearing cone (36) onto shaft (34).

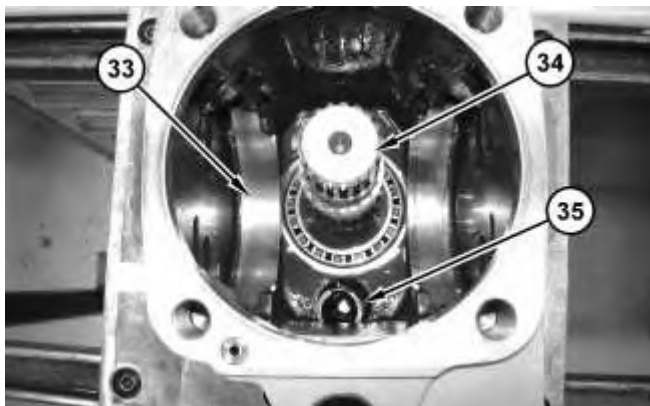


Illustration 8

g03577457



Illustration 9

g03577438

8. Install spring (35).
9. Install bearings (33) and shaft (34).
10. Install swashplate (32).

Note: Ensure that spring (35) is properly aligned with locator on the bottom of swashplate (32).



Illustration 10

g03577417

11. Install piston (31).

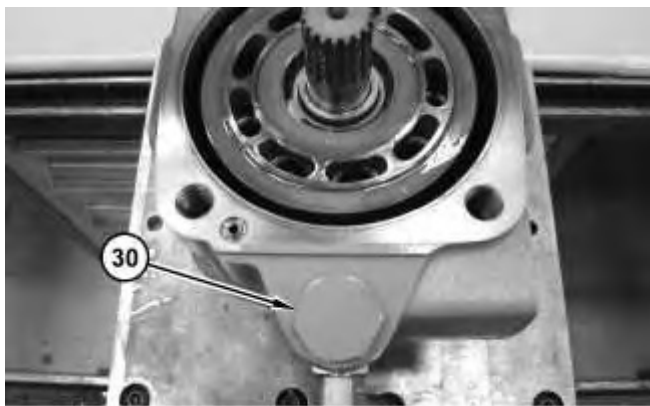


Illustration 11

g03577379

12. Install plug (30) and the O-ring seal.

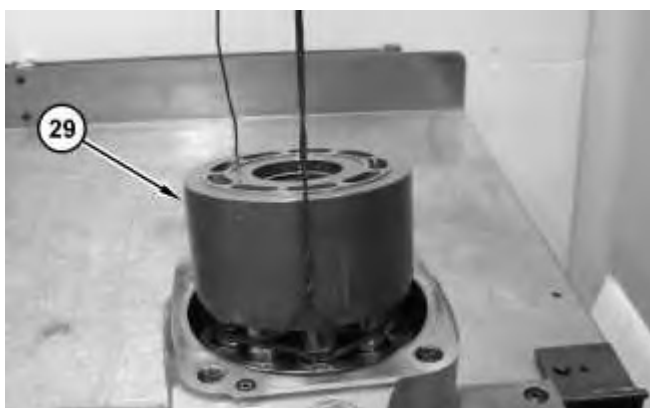


Illustration 12

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13. Use wax string or similar item to install rotating group (29).

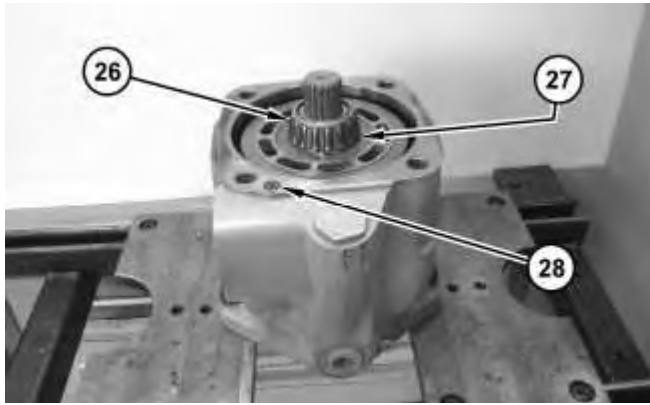


Illustration 13

g03577177

14. Install spacer (27). Install bearing cone (26) and O-ring seal (28).

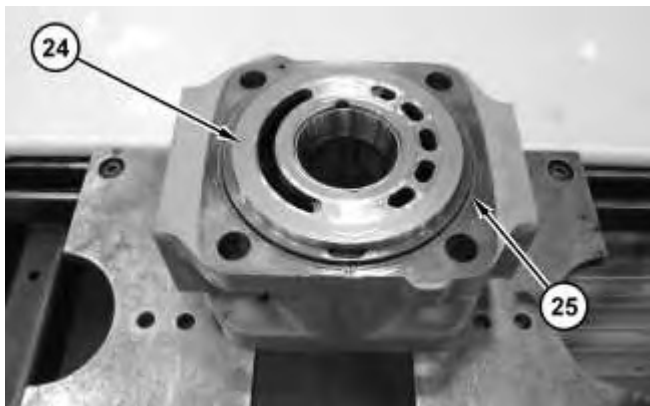


Illustration 14

g03577163

15. Install thrust plate (24) and O-ring seal (25).

Note: Use Tooling (B) to hold thrust plate (24) onto the head.



Illustration 15

g03577136

16. Install head (23) and bolts (22).

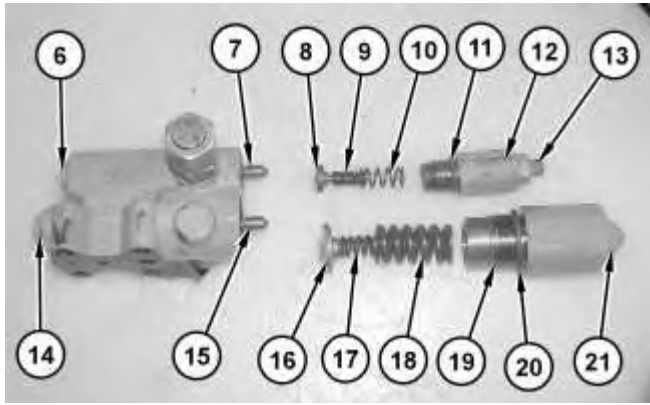


Illustration 16

g03577116



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.

17. Install screw assembly (21), O-ring seal (20), spring (18), spring (17), retainer (16), spool (15), and valve (19).
 18. Install screw assembly (13), O-ring seal (11), spring (10), spring (9), retainer (8), spool (7), and valve (12).
 19. Install the O-ring seal and plug (14).
 20. Install the O-ring seal and plug (6).
-

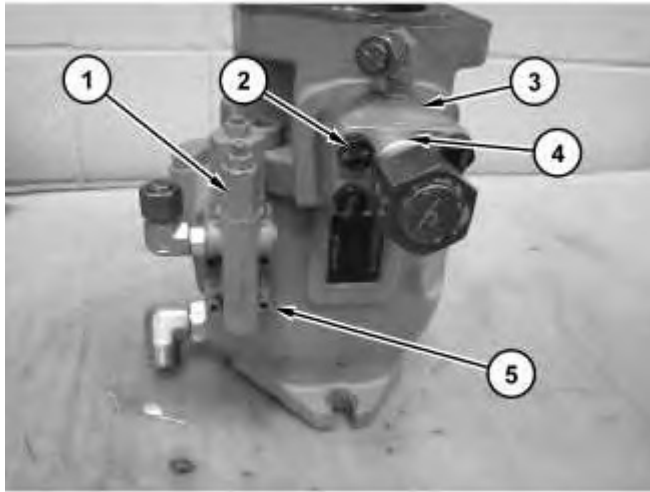


Illustration 17

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21. Install the gasket, valve group (1), and bolts (5).
22. Install the O-ring seals, block (3), adapter (4), and bolts (2).

End By:

- a. Install the coupler.
 - b. Install the piston pump.
-

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