

Product: TRACK-TYPE TRACTOR

Model: D5K LGP TRACK-TYPE TRACTOR YYY

Configuration: D5K XL & LGP Track Type Tractors YYY00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly D3K, D4K and D5K Track-Type Tractors Power Train

Media Number -KENR6045-03

Publication Date -01/10/2018

Date Updated -25/10/2018

i05444929

Piston Pump (Hydrostatic) - Disassemble - Left Side

SMCS - 5070-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1862	Pliers	1
B	1P-1861	Retaining Ring Pliers	1
C	147-3497	Spring Compressor	1
D	1U-7600	Slide Hammer Puller Gp	1

Start By:

- Remove the piston pump. Refer to Disassembly and Assembly, "Piston Pump (Hydrostatic) - Remove".



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 attachments have been lowered, 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.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

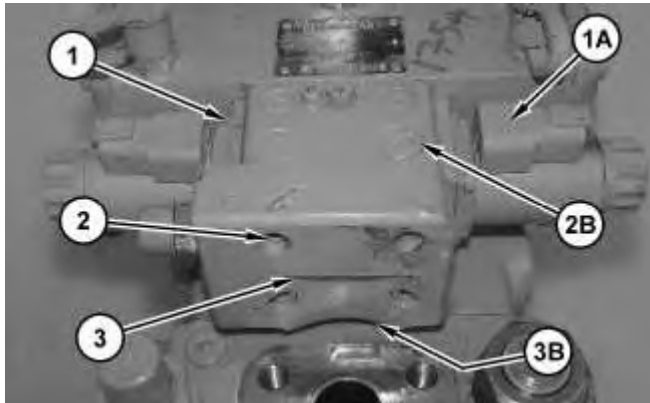


Illustration 1

g01284385

1. Remove bolts (2), cover (3), and the gasket.
 2. Remove bolts (3B) and servo valve (2B).
 3. Remove bolts (1), solenoids (1A), the O-ring seals, and the bevel washers.
-

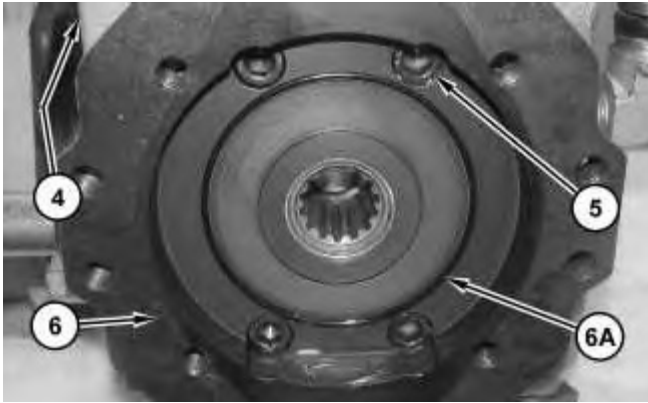


Illustration 2

g01284508

4. Remove bolts (5) and O-ring seal (6A) from flange (6).
5. Remove flange (6) from housing (4).

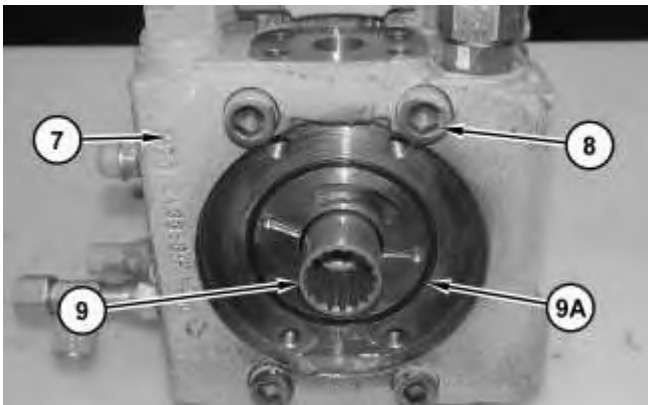


Illustration 3

g01284387

6. Remove bolts (8) and O-ring seal (9A) from head (7).
 7. Remove head (7) from the housing.
 8. Remove coupler (9).
-

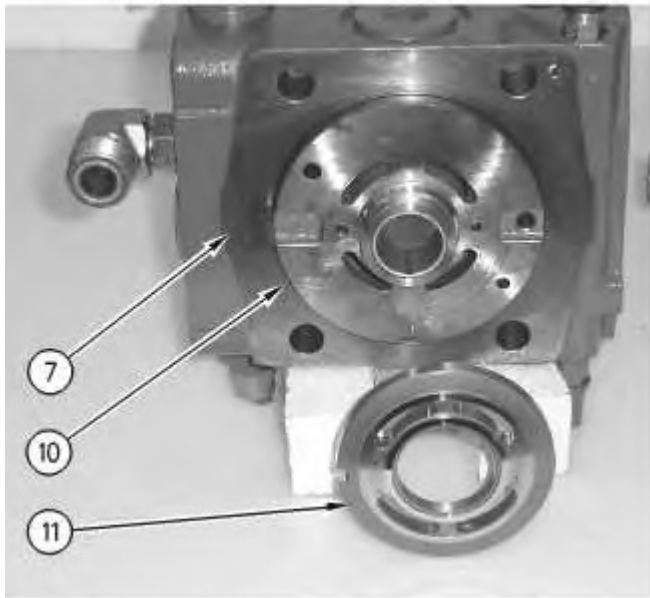


Illustration 4

g00875055

Note: Mark the proper orientation of port plate (11) for installation purposes.

9. Remove O-ring seal (10) from head (7).
10. Remove port plate (11) from head (7).

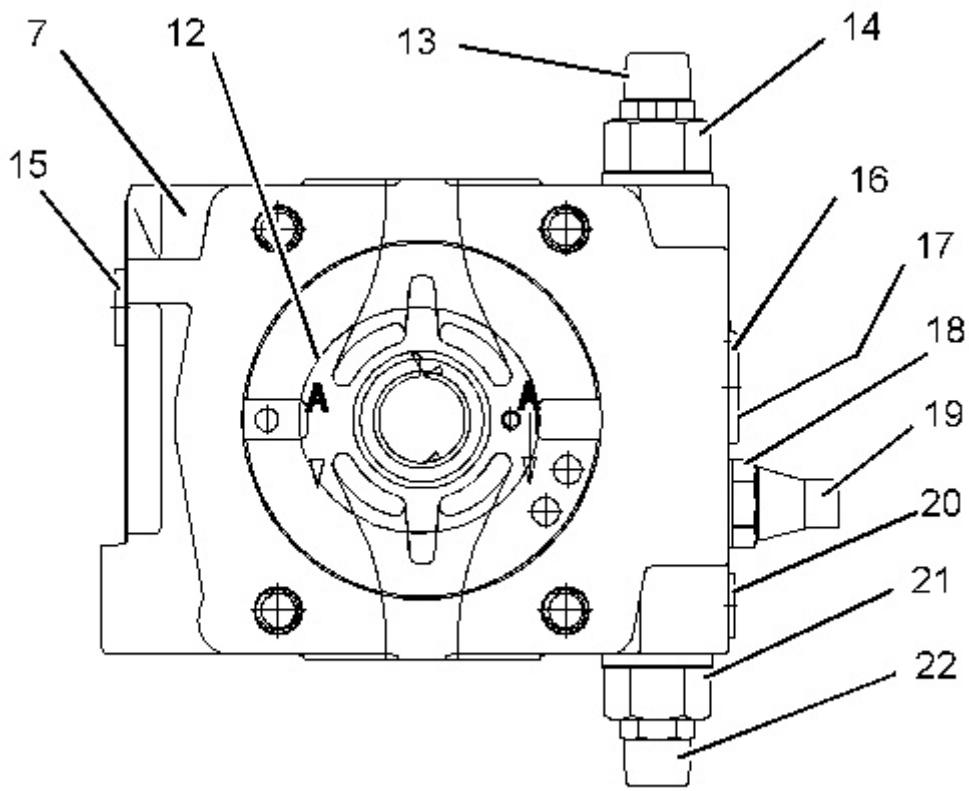


Illustration 5

g01387582

 **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.

11. Remove plug (15), dust cap (13), valve (14), plug (16), plugs (17), dust cap (19), valve (18), plug (20), dust cap (22), valve (21), O-ring seal (12), and the O-ring seals.
-

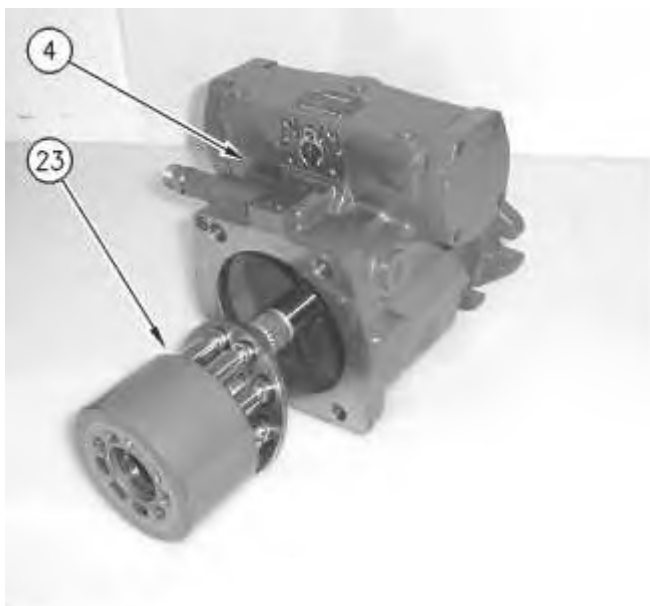


Illustration 6

g00875130

12. Remove rotating assembly (23) from housing (4).
-

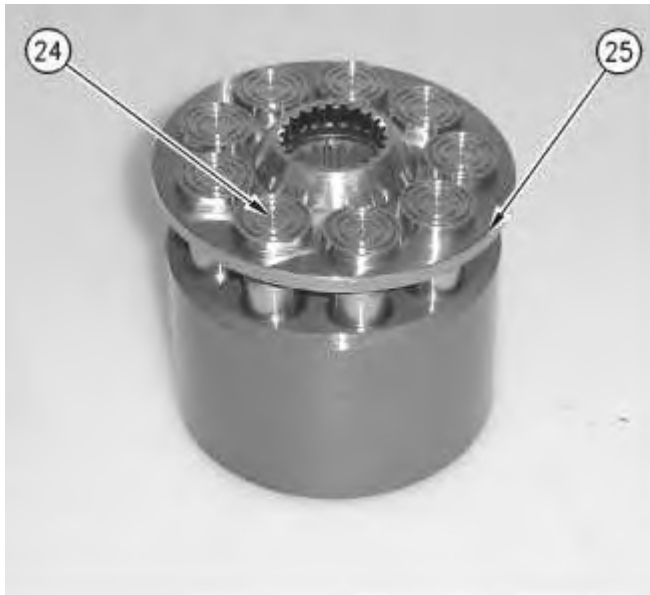


Illustration 7

g00875175

Note: Mark the location of pistons (24) for assembly purposes.

13. Remove pistons (24) from retainer plate (25).

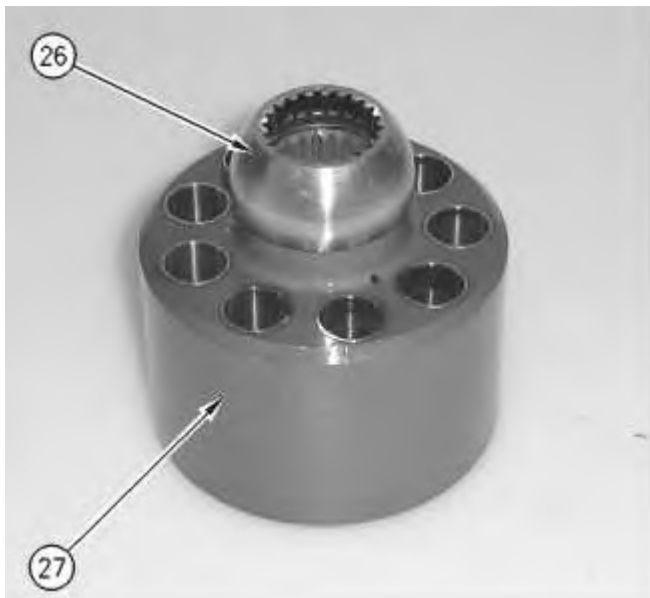


Illustration 8

g00875182

14. Remove ball joint (26) from barrel assembly (27).
-

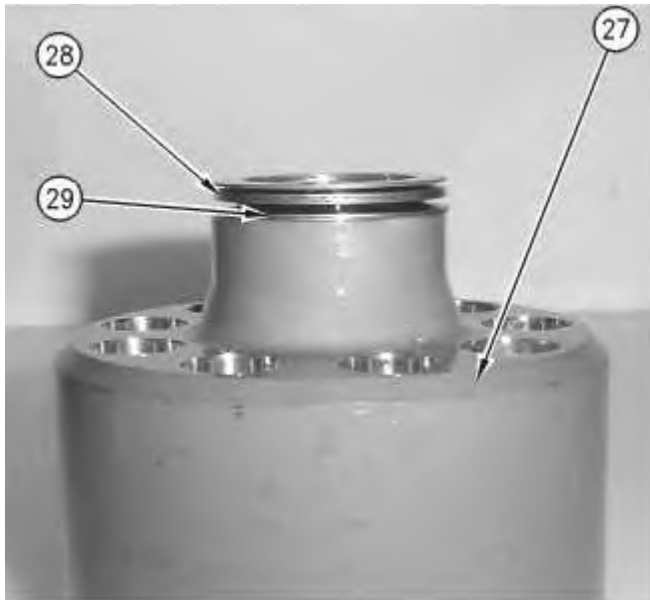


Illustration 9

g00875186

15. Remove spring assembly (28) and shim (29) from barrel assembly (27).

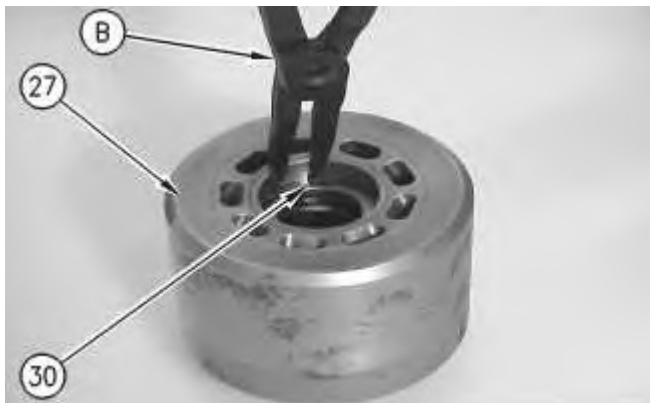


Illustration 10

g00875193

! WARNING

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

16. Use Tooling (B) and a suitable press in order to remove retaining ring (30) from barrel assembly (27).

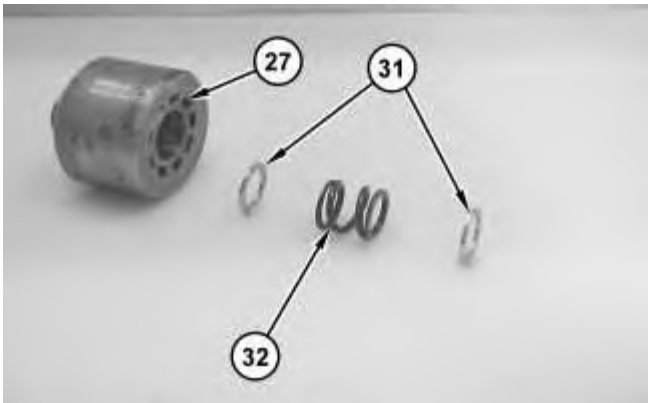


Illustration 11

g01332818

17. Remove washers (31) and spring (32) from barrel assembly (27).



Illustration 12

g00875204

18. Remove retaining ring (33) from housing (4).

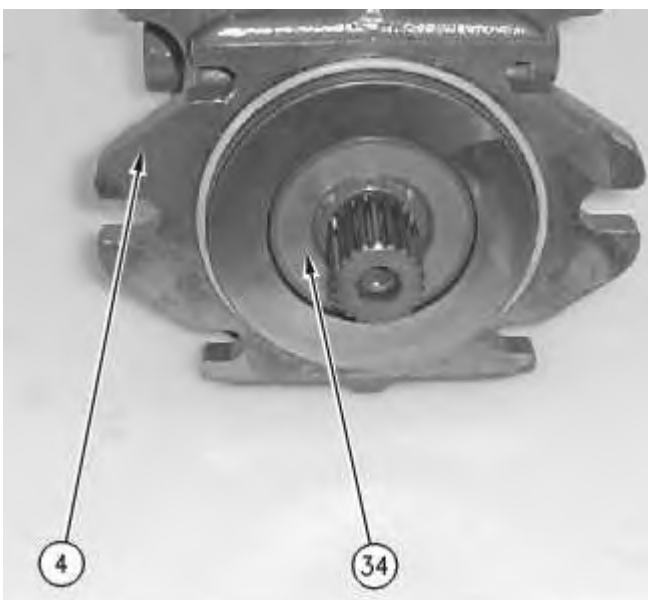


Illustration 13

g00875220

Note: Use Tooling (D) for removal of seal (34).

19. Remove seal (34) from housing (4).

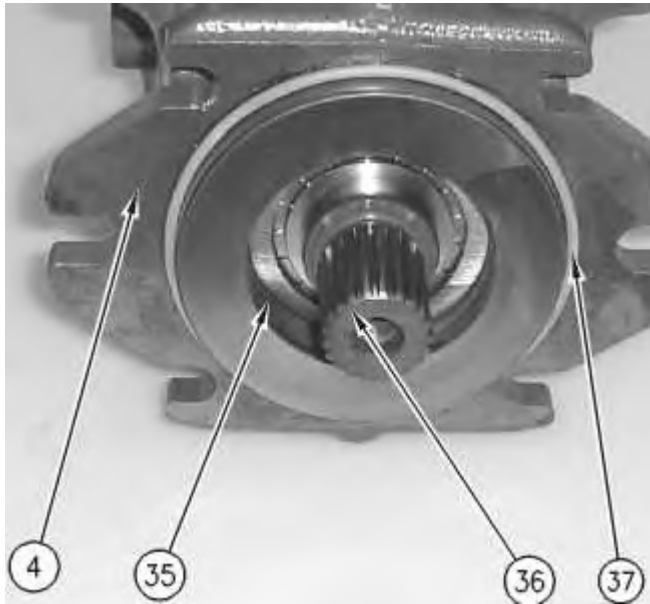


Illustration 14

g00875224

20. Remove retaining ring (35) from housing (4).
21. Remove shaft assembly (36) and O-ring seal (37) from housing (4).

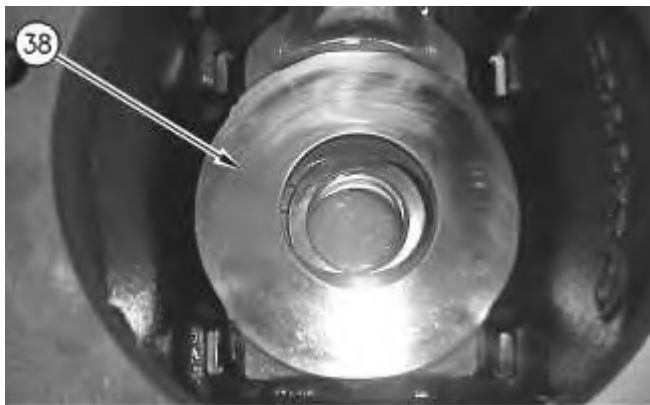


Illustration 15

g00875537

22. Remove swashplate assembly (38).
-

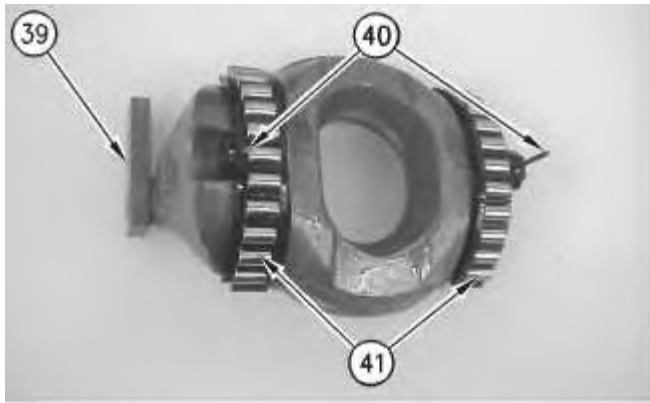


Illustration 16

g00875538

23. Remove slide (39), rods (40), and bearings (41).

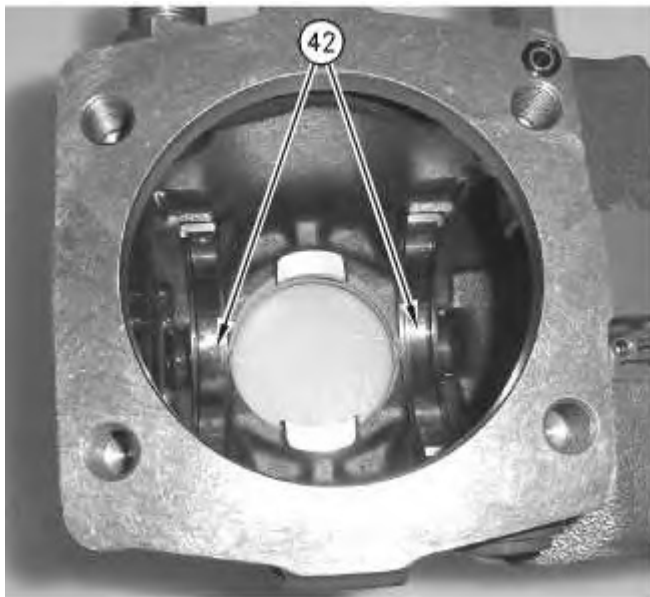


Illustration 17

g00875539

24. Remove bearings (42).

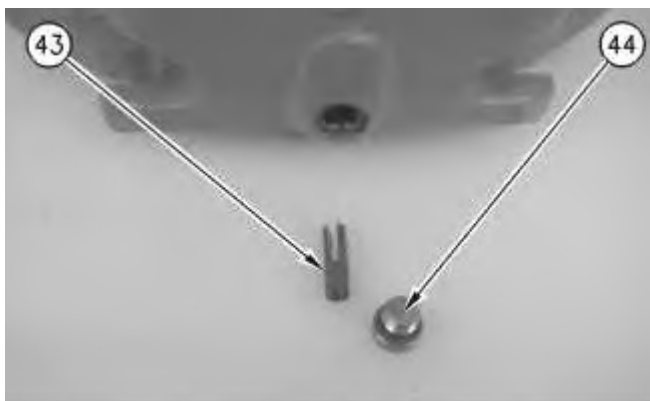


Illustration 18

g00875564

25. Remove plug assembly (44) and joint pin (43).

26. Repeat Step 25 for the opposite side.

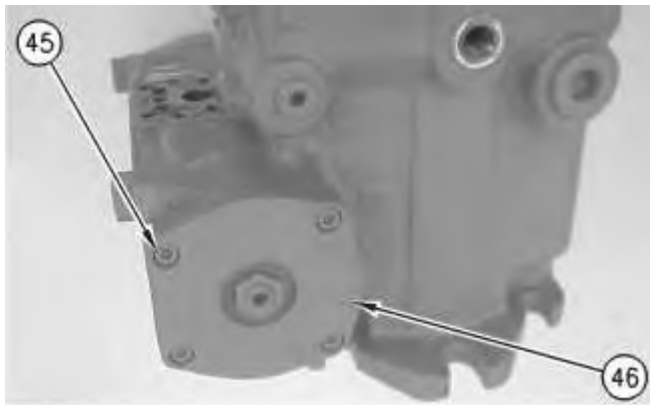


Illustration 19

g00875567

27. Remove bolts (45) and servo valve (46).



Illustration 20

g00875568

 **WARNING**

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

28. Use Tooling (A) and a suitable press in order to remove retaining ring (47).

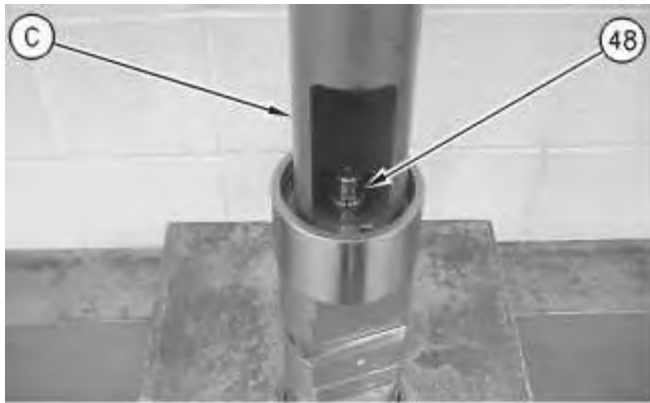


Illustration 21

g00875569

! WARNING

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

29. Use Tooling (C) and a suitable press in order to remove ring assembly (48).

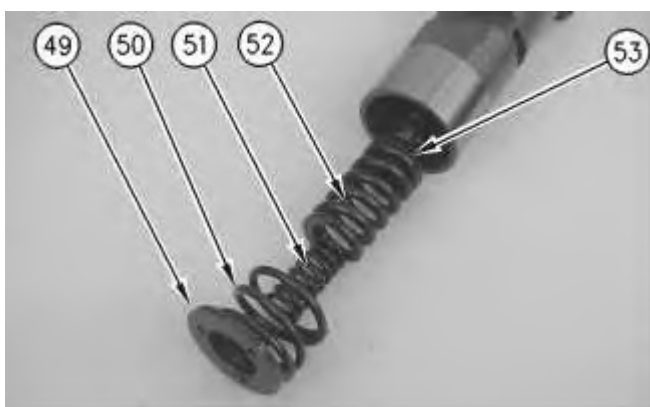


Illustration 22

g00875570

30. Remove spring retainer (49). Remove springs (50), (51), and (52). Remove spring retainer (53).

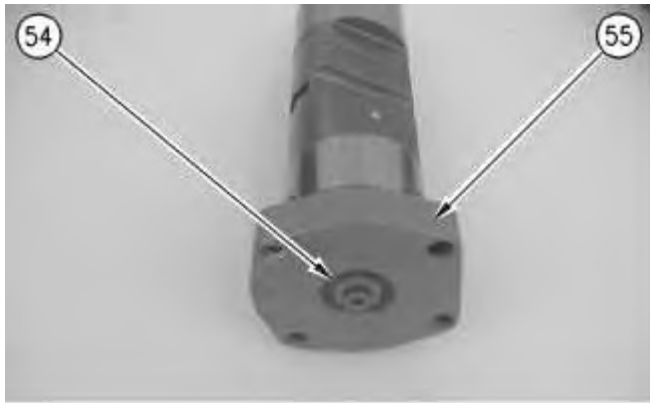


Illustration 23

g00875571

Note: Measure nut (54) for installation.

31. Remove nut (54) and cover (55).

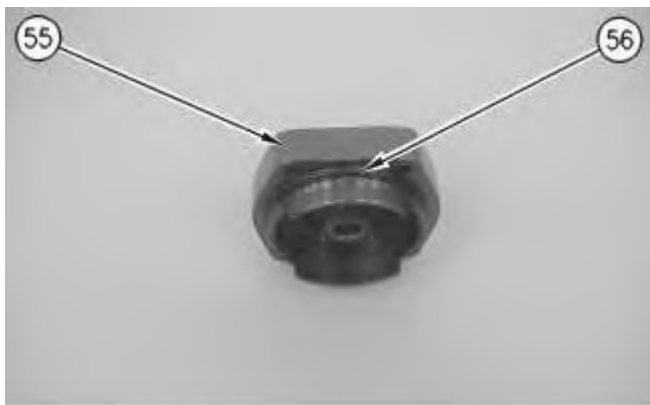


Illustration 24

g00875573

32. Remove O-ring seal (56) from cover (55).



Illustration 25

g00875599

 **WARNING**

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

33. Use Tooling (A) and a suitable press in order to remove retaining ring (57).

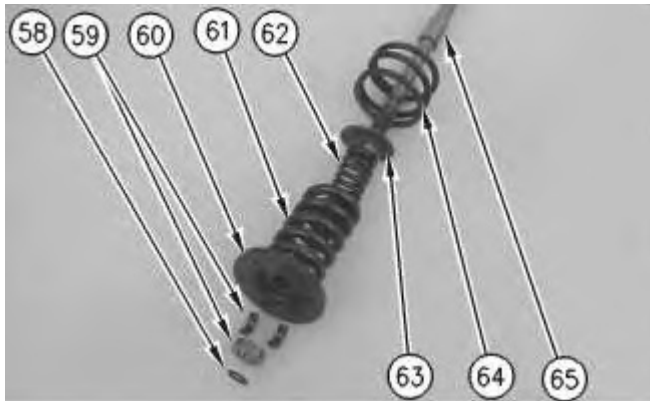


Illustration 26

g00875601

34. Remove O-ring seal (58) and ring assembly (59). Remove spring retainer (60). Remove springs (61), (62), and (64). Remove spring retainer (63) and rod (65).

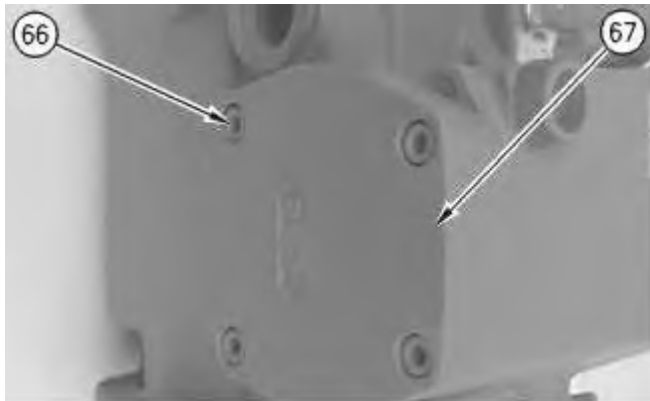


Illustration 27

g00875602

35. Remove bolts (66) and cover (67).
-

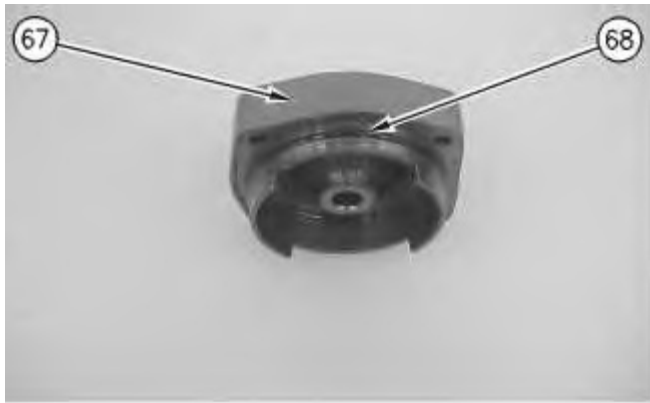


Illustration 28

g00875604

36. Remove O-ring seal (68) from cover (67).



Illustration 29

g00877519

37. Remove guide ring (69) and ring (70).

Product: TRACK-TYPE TRACTOR

Model: D5K LGP TRACK-TYPE TRACTOR YYY

Configuration: D5K XL & LGP Track Type Tractors YYY00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly D3K, D4K and D5K Track-Type Tractors Power Train

Media Number -KENR6045-03

Publication Date -01/10/2018

Date Updated -25/10/2018

i05444849

Piston Pump (Hydrostatic) - Assemble - Right Side

SMCS - 5070-016

Assembly Procedure

Table 1

Required Tools			
Tools	Part Number	Part Description	Qty
A	1P-1862	Pliers	1
B	1P-1861	Retaining Ring Pliers	1
C	147-3497	Spring Compressor	1
D	9U-5720	Heat Shrink Tube	1
E	135-8292	Alignment Plug	1
F	128-2745	D3/D4 Test Ring	1
F	135-8296	D5 Test Ring	1
G	128-2744	Measuring Bell	1
H	128-2747	Measuring Hub	1

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.



Illustration 1

g00877519

1. Install ring (70) and guide ring (69).

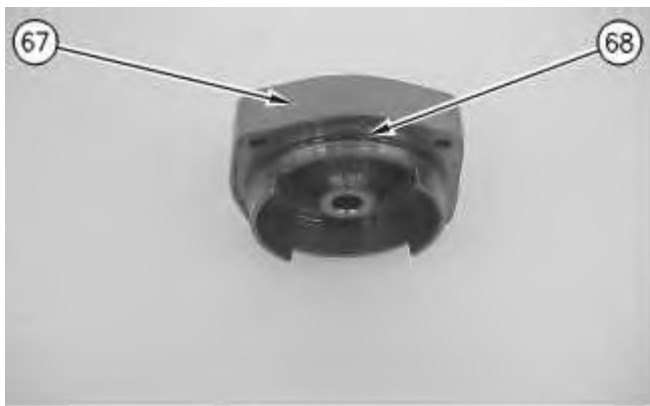


Illustration 2

g00875604

2. Install O-ring seal (68) to cover (67).

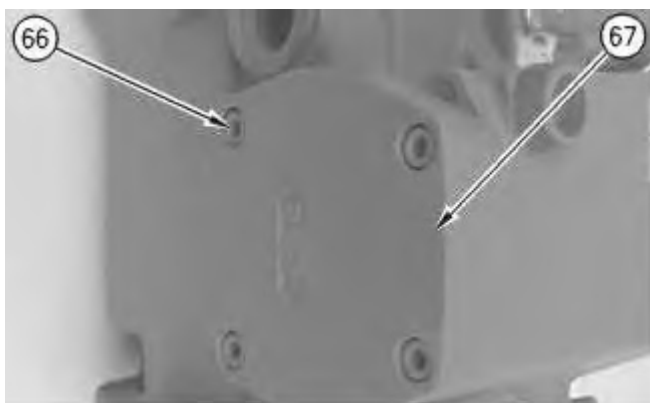


Illustration 3

g00875602

3. Install cover (67) and bolts (66).

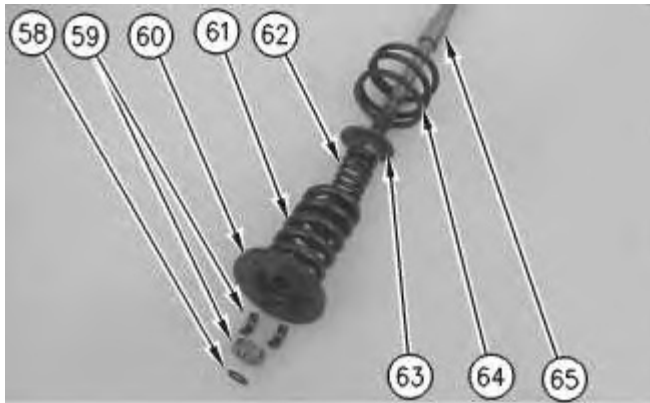


Illustration 4

g00875601

4. Install spring retainer (63) and rod (65). Install springs (61), (62), and (64). Install spring retainer (60). Install O-ring seal (58) and ring assembly (59).



Illustration 5

g00875599

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.

5. Use Tooling (A) and a suitable press in order to install retaining ring (57).

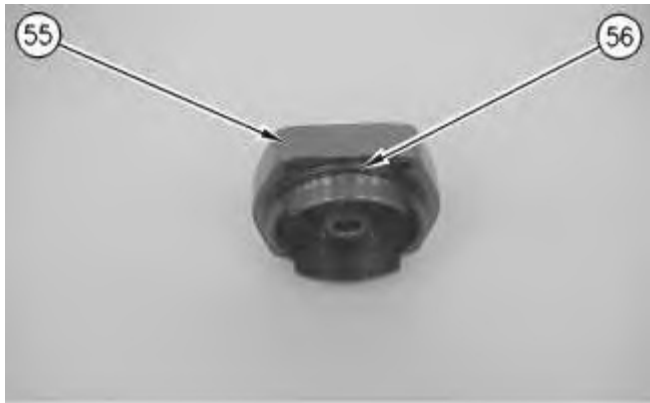


Illustration 6

g00875573

6. Install O-ring seal (56) to cover (55).



Illustration 7

g00875571

7. Install cover (55) and nut (54).

 **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.

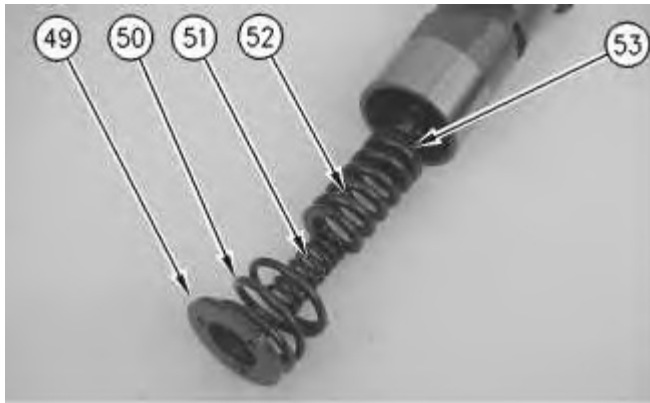


Illustration 8

g00875570

8. Install spring retainer (53). Install springs (50), (51), and (52). Install spring retainer (49).



Illustration 9

g00875569

 **WARNING**

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

9. Use Tooling (C) and a suitable press in order to Install ring assembly (48).



Illustration 10

g00875568

 **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.

10. Use Tooling (A) and a suitable press in order to install retaining ring (47).

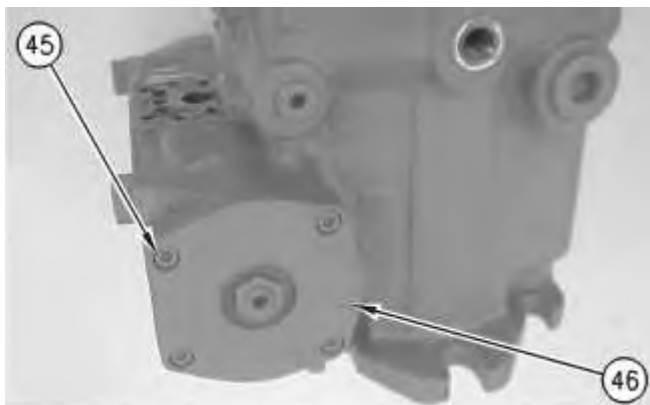


Illustration 11

g00875567

11. Install servo valve (46) and bolts (45).

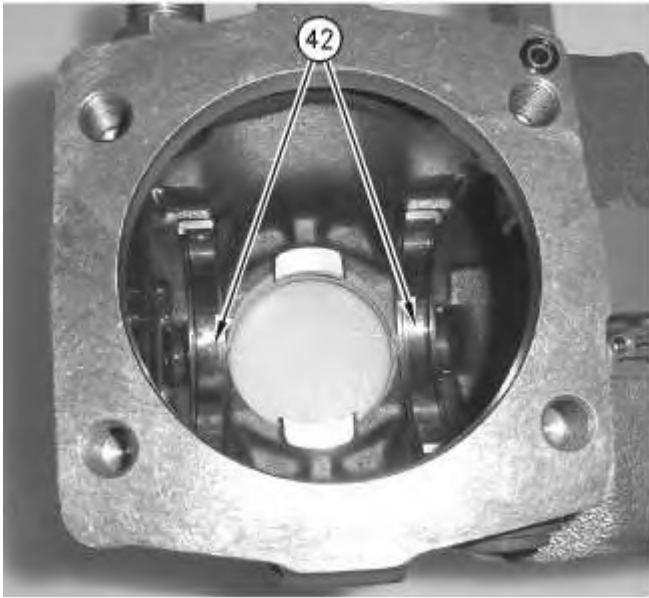


Illustration 12

g00875539

12. Install bearings (42).

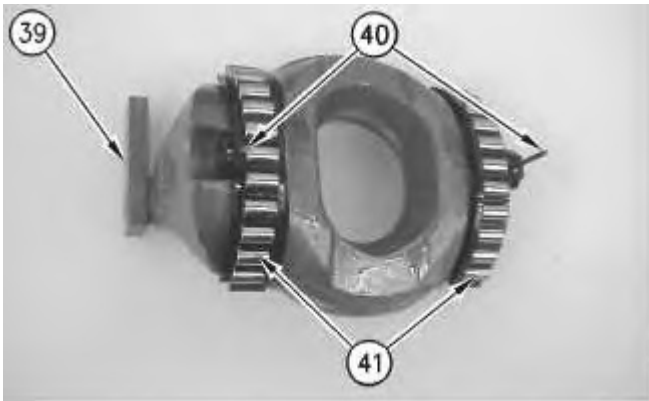


Illustration 13

g00875538

13. Install bearings (41), rods (40), and slide (39).



Illustration 14

g00875537

14. Install swashplate assembly (38).

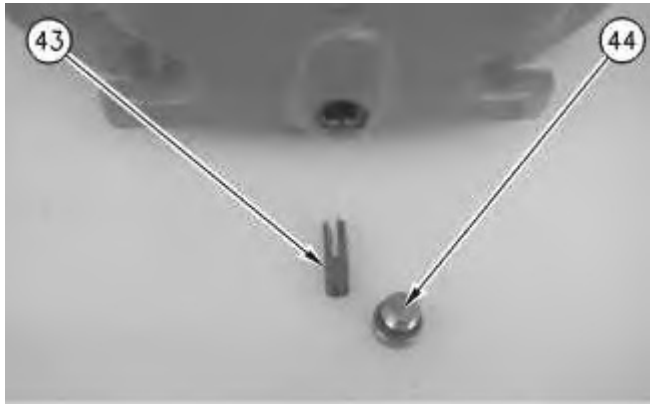


Illustration 15

g00875564

15. Install joint pin (43) and plug assembly (44).
16. Repeat Step 15 for the opposite side.

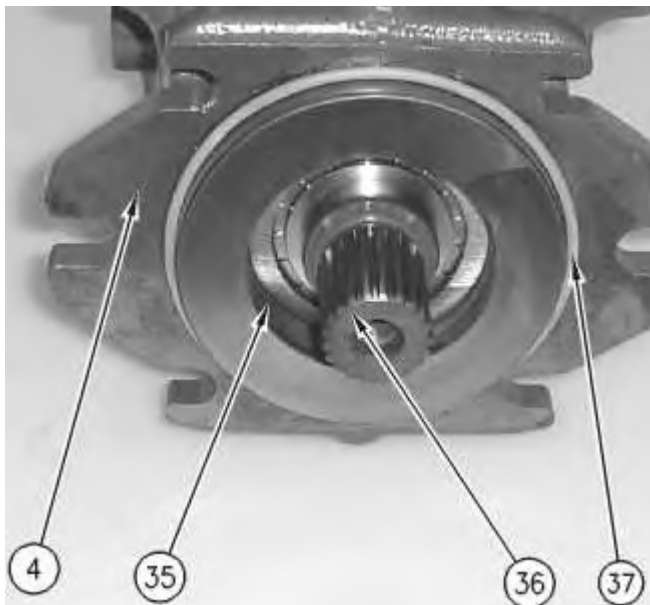


Illustration 16

g00875224

17. Install Tooling (D) over shaft assembly (36) in order to protect the shaft during installation. Install shaft assembly (36) and O-ring seal (37) to housing (4). Remove Tooling (D) after installation.
 18. Install retaining ring (35) to housing (4).
-

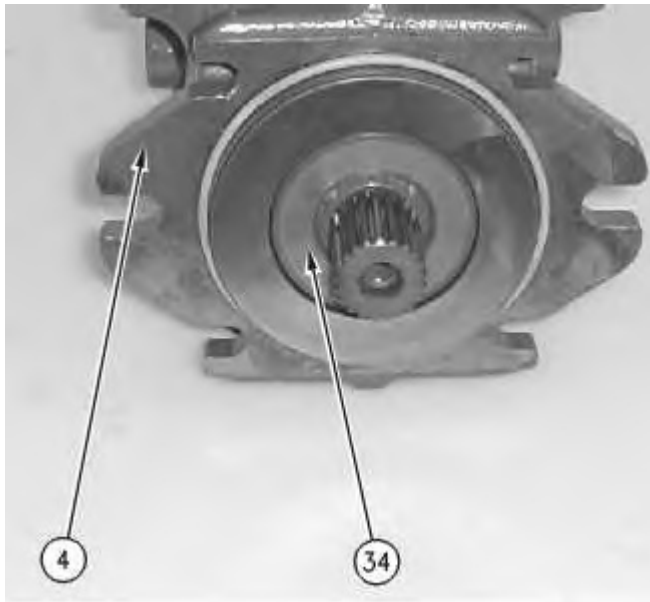


Illustration 17

g00875220

19. Install seal (34) to housing (4).



Illustration 18

g00875204

! 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.

20. Install retaining ring (33) to housing (4).

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