

Product: WHEEL LOADER

Model: 990K WHEEL LOADER A9P

Configuration: 990K Wheel Loader A9P00001-UP (MACHINE) POWERED BY C27 Engine

Disassembly and Assembly 990K Wheel Loader and 844K Wheel Dozer Machine Systems

Media Number -UENR6576-05

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i07518348

Piston Pump (Steering) - Assemble

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

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3939	Link Bracket	2
B	163-5006	Spring Clip	2
C	171-1113	Measuring Hub	1
D	129-3876	Measuring Bell	1
E	-	Height Gauge	1
F	171-1112	Test Pins	3
G	171-1114	Alignment Plug	1
H	6V-2055	Grease	1
J	-	Loctite 263	-



Illustration 1

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1. Install retaining ring (61) and bearing (62) onto shaft assembly (60).



Illustration 2

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2. Use a soft faced hammer to install shaft (60) into housing (30).



Illustration 3

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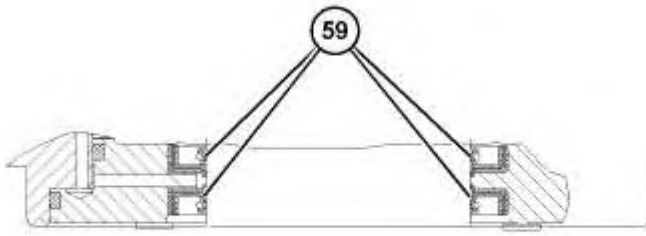


Illustration 4

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Note the orientation of lip seals (59).

3. Install lip seals (59) and the O-ring seals and into cover (58).



Illustration 5

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4. Install cover (58) and bolts (57).



Illustration 6

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5. Install outer races (56) into housing (30).

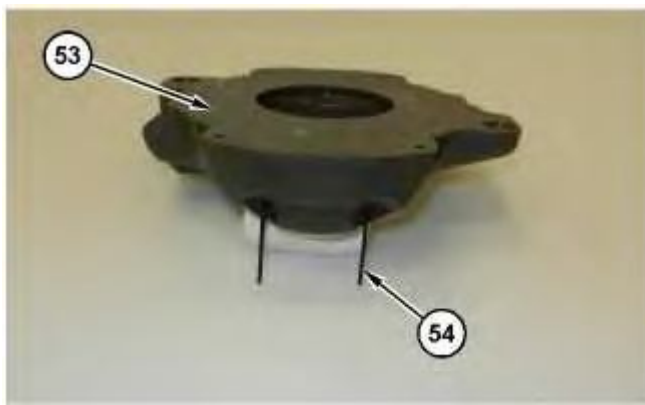


Illustration 7

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6. Install pins (54) onto swashplate (53).



Illustration 8

g06153884



Illustration 9

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7. Install bearings (55) to swashplate (53). Use Tooling (B) to hold the bearings in place for installation.
8. Install swashplate (53) and remove Tooling (B).

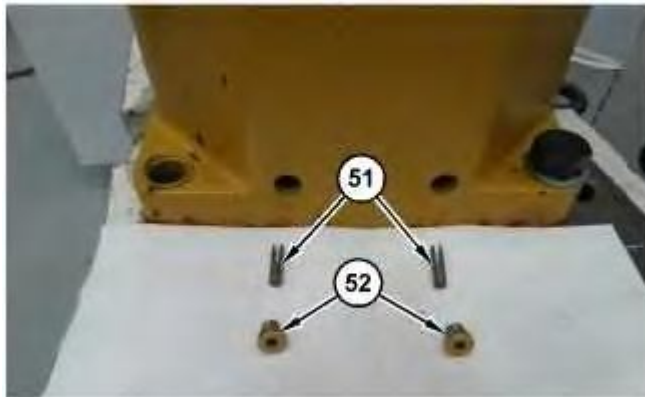


Illustration 10

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9. Install retainers (51), plugs (52) and the O-rings. Repeat for opposite side.

Note: Ensure retainers (51) lock into pins (54) shown in illustration 7..



Illustration 11

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10. Install adjustment screw (50) into housing (30). Repeat for opposite side.



11. Place port plate (31) on a flat surface and install Tooling (G).

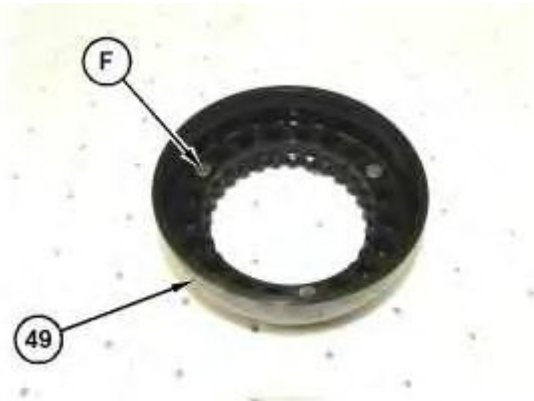


Illustration 13

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12. Install Tooling (F) into bearing (49).



Illustration 14

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13. Install shims (47) into bearing (49).



Illustration 15

g06149911

14. Install bearing (49) onto barrel (44).



Illustration 16

g06153902

Dimension (X) is 220.95 - 221.20mm (8.698 - 8.708 inch)

Dimension (Y) is 170.95 - 171.20mm (6.730- 6.740 inch)

15. Install barrel assembly (44) onto port plate (31). Install retainer plate (46) onto barrel assembly (44). Install Tooling (C) and (D) onto retainer plate (46).
16. Use Tooling (G) to measure dimensions (X) and (Y). Adjust the shims under retainer plate (46) as necessary to achieve the dimensions shown in Illustration 16.
17. Remove Tooling (C) and (D). Remove retainer plate (46) from barrel assembly (44). Remove barrel assembly (44) from port plate (31).



Illustration 17

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18. Remove bearing (49) from barrel (44).
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