

Product: WHEEL LOADER

Model: 990K WHEEL LOADER M9P

Configuration: 990K Wheel Loader M9P00001-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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i07100617

Piston Pump (Brake, Steering) - Disassemble

SMCS - 5070

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	437-3776	Fixture As.	1
	1U-9127 ⁽¹⁾	Adapter Plate	1
	1U-5750	Engine Stand	1
B	1P-0510	Driver Gp	1
	5P-8244	Hard Washer	2
C	8H-0663	Bearing Puller Gp	1

⁽¹⁾ Part of the Hydraulic Test Bench Tooling.

Start By:

- a. Remove the piston pump.
-



Illustration 1

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1. Secure pump body (1) to Tooling (A) or a suitable workbench.
2. Remove bolts (2) and valve assembly (3).

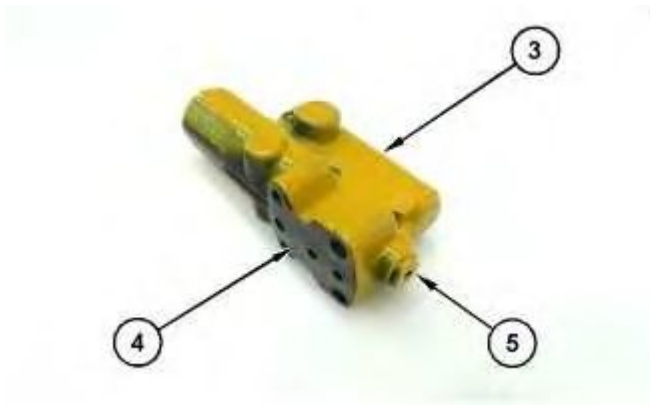


Illustration 2

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3. Remove gasket (4), plug (5), and the seal.



Illustration 3

g06225123

4. Remove plug (6) from valve assembly (3).



Illustration 4

g06225130

! 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.

5. Remove O-ring seal (7) from plug (6).

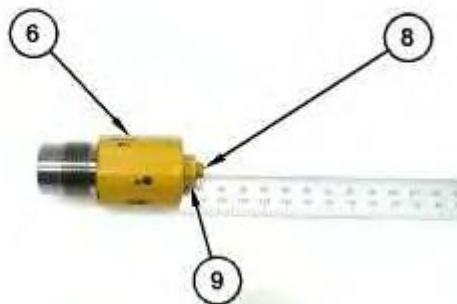


Illustration 5

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6. Measure height of adjustment screw (8) from plug (6) for assembly purposes.

7. Remove nut (9).
-



Illustration 6

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8. Remove plate (10) from plug (6).
 9. Remove adjustment screw (8) in the direction shown.
-

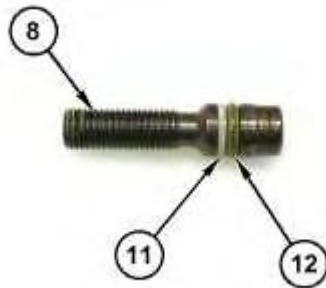


Illustration 7

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10. Remove O-ring seal (12) and backup ring (11) from adjustment screw (8).
-

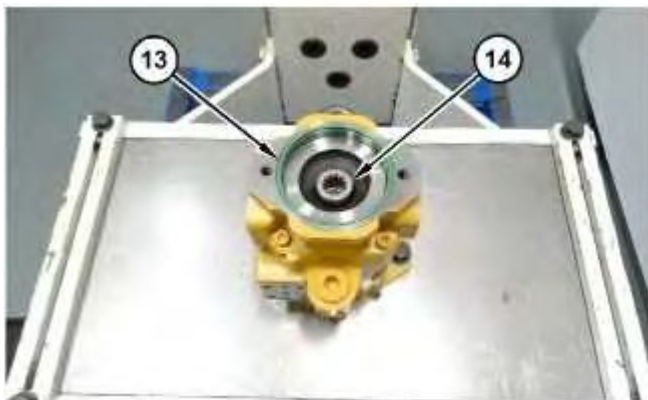


Illustration 8

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11. Remove O-ring seal (13) and coupler (14) from the piston pump.
-

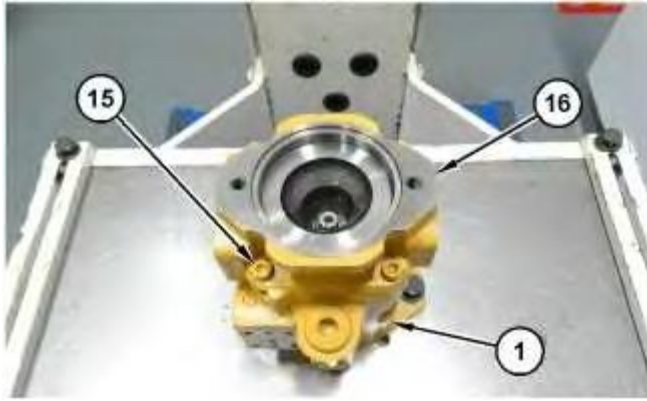


Illustration 9

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⚠ 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.

-
12. Remove bolts (15) and pump flange (16) from pump body (1).

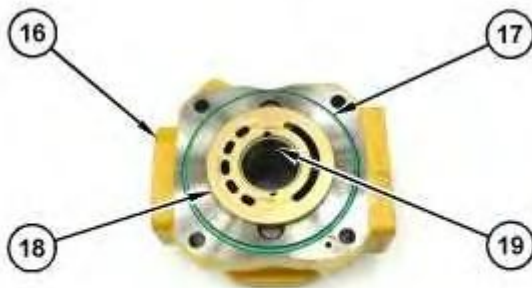


Illustration 10

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13. Remove O-ring seal (17) and control plate (18) from pump flange (16).
14. Remove bearing cup (19) from pump flange (16).
-

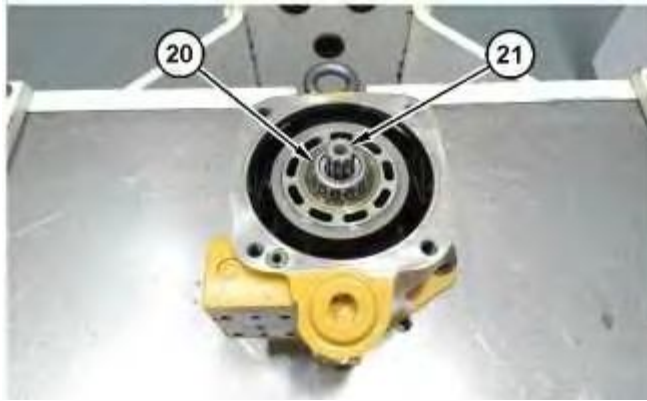


Illustration 11

g06225002

15. Remove bearing cone (20) from shaft assembly (21).



Illustration 12

g06225006

16. Remove shim (22) from shaft assembly (21).
17. Remove O-ring seal (23) from pump body (1).



Illustration 13

g06225156

18. Rotate pump body (1) and remove barrel assembly (24).



Illustration 14

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19. Remove pistons (25), piston retainer (27), and guide (26) from barrel assembly (24).

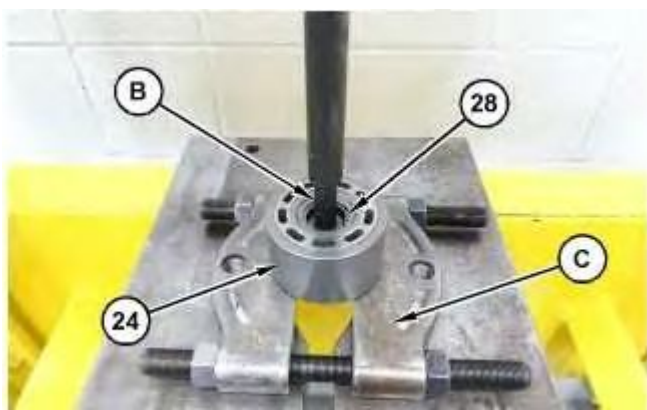


Illustration 15

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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.

20. Use Tooling (B), Tooling (C), and a suitable press to compress the barrel spring.
21. Remove retaining ring (28) from barrel assembly (24).

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