



Service Repair Manual

Models

304.5 Mini Hydraulic
Excavator

Product: MINI HYD EXCAVATOR

Model: 304.5 MINI HYD EXCAVATOR ANR

Configuration: 304.5 Mini Hydraulic Excavator ANR00001-UP (MACHINE) POWERED BY 3024 Engine

Disassembly and Assembly 304.5 Mini Hydraulic Excavator Machine Systems

Media Number -REN3548-04

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i01368358

Piston Pump - Disassemble

SMCS - 5070-015

Disassembly Procedure

Table 1

REQUIRED TOOLS			
Tool	Part Number	Part Description	Qty
A	1P-1857	Snap Ring Pliers	1
B	1P-1859	Snap Ring Pliers	1

Start By:

- A. Remove the piston pump. Refer to Disassembly and Assembly, "Piston Pump - Remove".

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, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: Put identification marks on the pump and on all lines for installation purposes. Plug all lines. This will help to prevent fluid loss and this helps to keep contaminants from entering the system.

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.

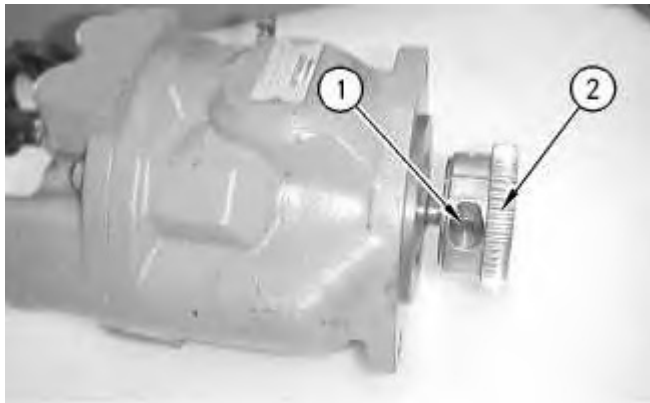


Illustration 1

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1. Remove allen head screw (1) .
2. Remove hub (2) from the shaft.

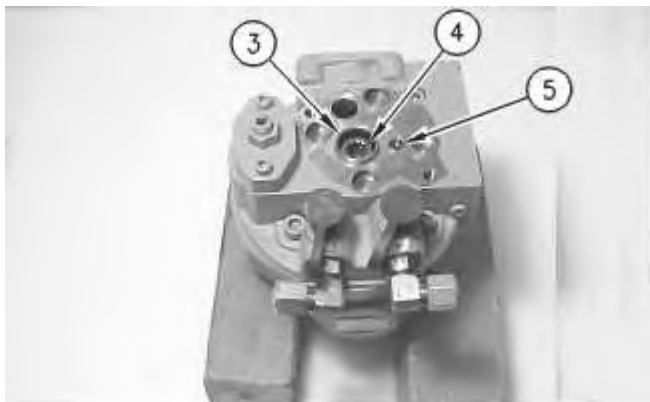


Illustration 2

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3. Remove collar (3) from the pump head.
4. Remove coupling (4) from the pump head.
5. Remove O-ring (5) from the pump head.

Note: Do not remove large allen head screw on valve (7).

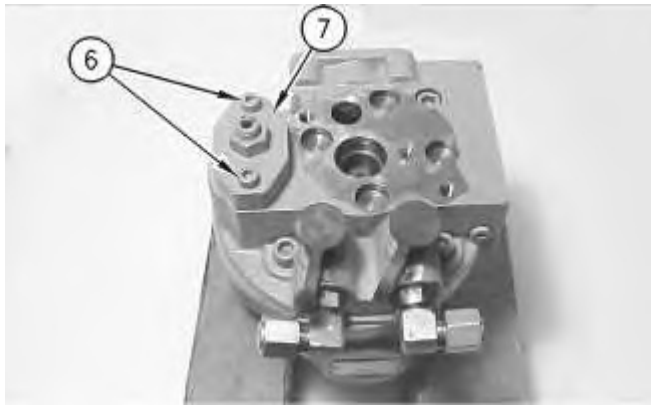


Illustration 3

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6. Remove two allen head screws (6) from the valve.
7. Remove valve (7) .

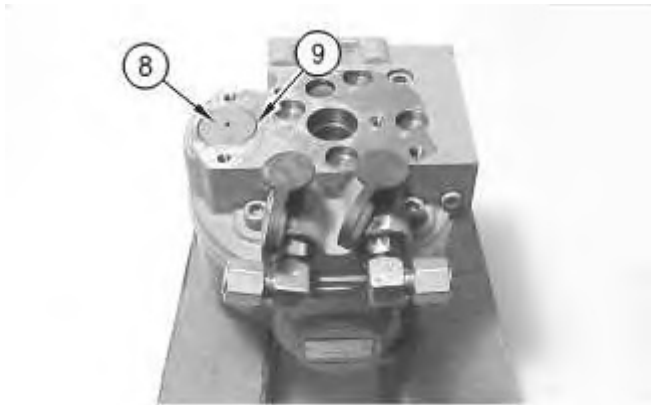


Illustration 4

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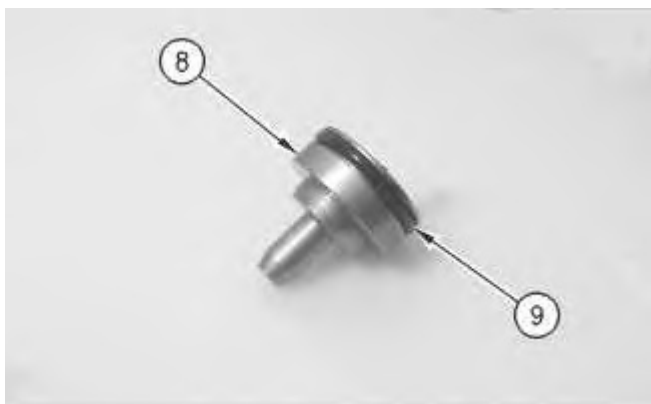


Illustration 5

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8. Remove piston (8) from the pump head.

9. Remove O-ring (9) from piston (8) .

Note: One allen head screw (10) is longer than the other three allen head screws.

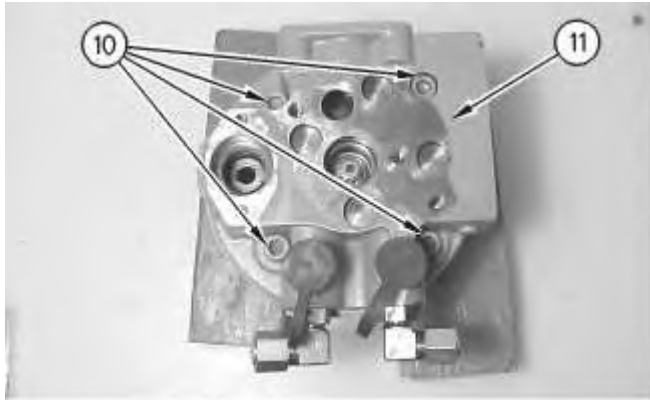


Illustration 6

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10. Remove four allen head screws (10) .

11. Remove pump head (11) from the pump body.

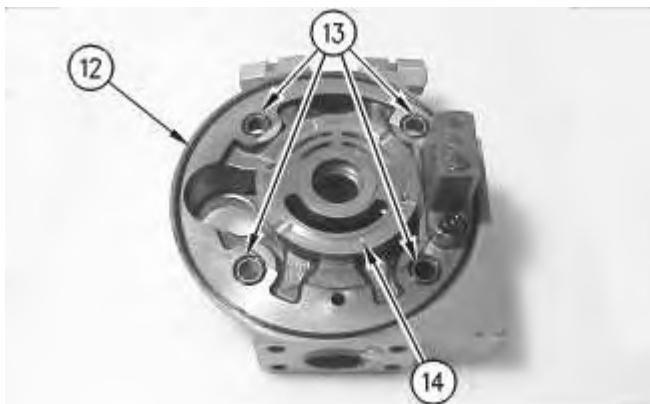


Illustration 7

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12. Rotate the pump head to the other side.

13. Remove O-ring (12) from the pump head.

14. Remove four O-rings (13) from the pump head.

15. Remove plate (14) from the pump head.

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