

Product: WHEEL SCRAPER  
Model: 623G WHEEL SCRAPER CEW  
Configuration: 623G Wheel Scraper CEW00001-UP (MACHINE)

## Disassembly and Assembly 623G Wheel Tractor-Scraper Machine Systems

Media Number -REN4249-00

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i02509987

## Piston Pump (Cushion-Hitch) - Disassemble

SMCS - 5070-015; 5316-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1
B	1P-1854	Pliers	1
C	1P-1857	Pliers	1

### Start By:

- Remove the piston pump (cushion-hitch). Refer to Disassembly and Assembly, "Piston Pump (Cushion-Hitch) - Remove".

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### 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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

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1. Apply alignment marks on all mating components for assembly purposes.

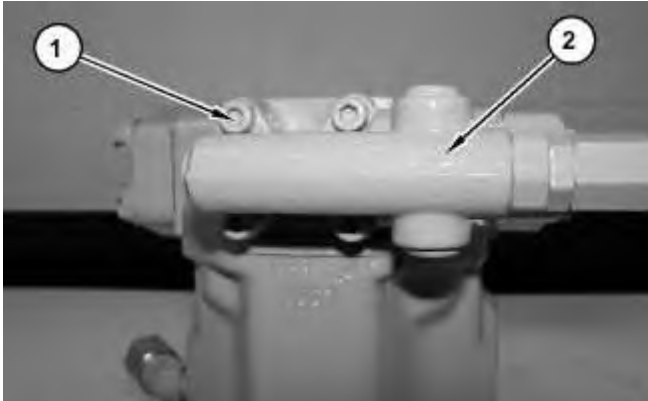


Illustration 1

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2. Remove bolts (1) and valve (2) .

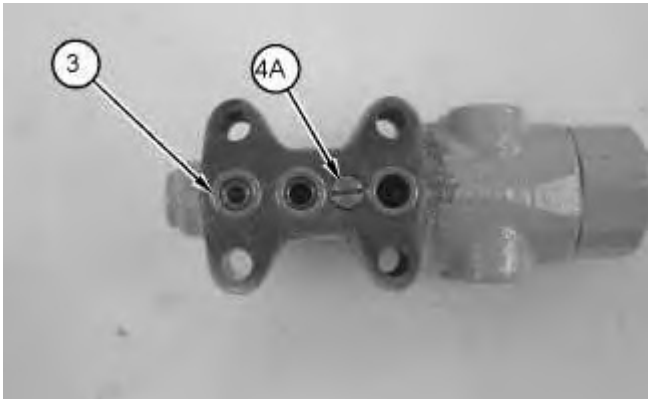


Illustration 2

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3. Remove O-ring seals (3) and screw (4A) .
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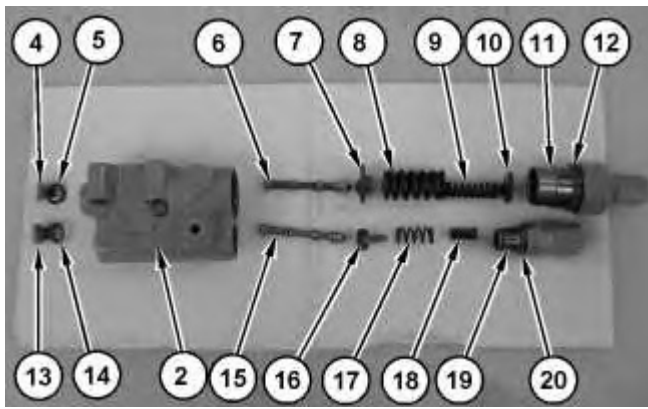


Illustration 3

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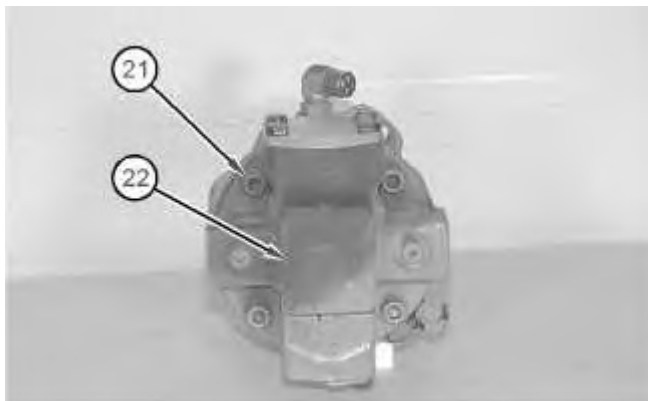
## WARNING

**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.**

4. Remove plug (11) and O-ring seal (12) .
5. Remove seat (10) , spring (9) , spring (8) , retainer (7) , and spool (6) .
6. Remove plug (19) and O-ring seal (20) .
7. Remove spring (18) , spring (17) , retainer (16) , and spool (15) .
8. Remove plug (4) , washer (5) , plug (13) , and washer (14) from housing (2) .



**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.**

**Note:** Pump head (22) is under spring tension. Remove bolts (21) slowly.

9. Carefully remove bolts (21) that secure pump head (22) to the pump assembly.

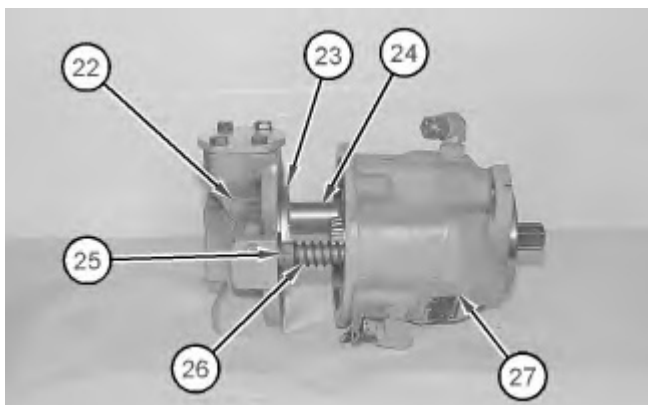
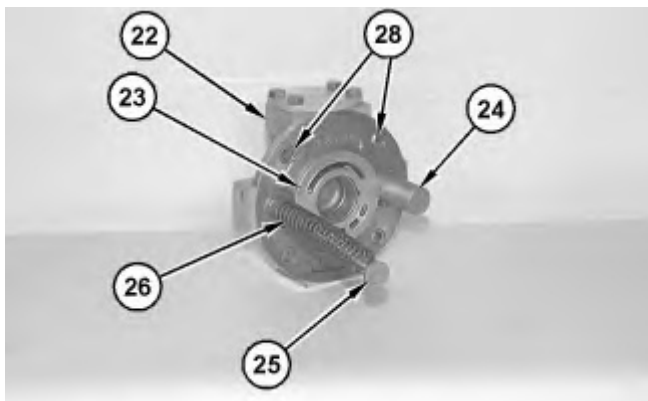


Illustration 5

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10. Remove pump head (22) , plate (23) , piston (24) , plunger (25) , and spring (26) as a unit from pump housing (27) .



11. Remove plunger (25) , spring (26) , four O-ring seals (28) , piston (24) , and plate (23) from pump head (22) .

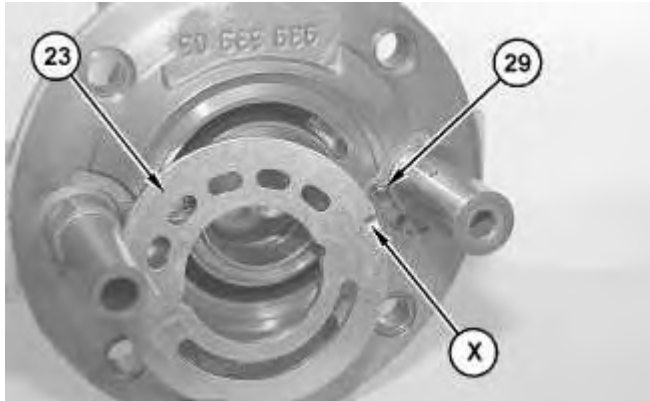


Illustration 7

g01071420

12. Plate (23) has been turned over by 180 degrees. Note the location of Slot (X) that is in plate (23) for assembly purposes. Slot (X) will be positioned over locating pin (29) when plate (23) is installed to the pump head.

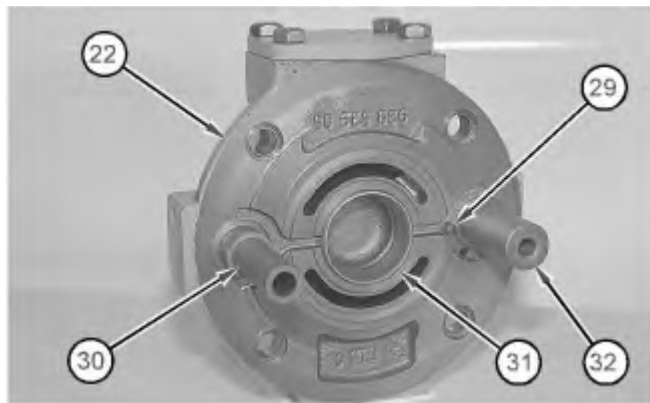


Illustration 8

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13. Plunger guide (30) and piston guide (32) will not be removed from the head. If either cylinder (30) or guide (32) are damaged pump head (22) must be replaced. Remove pin (29) from pump head (22) . Use a suitable heel bar and remove bearing cup (31) from pump head (22) .

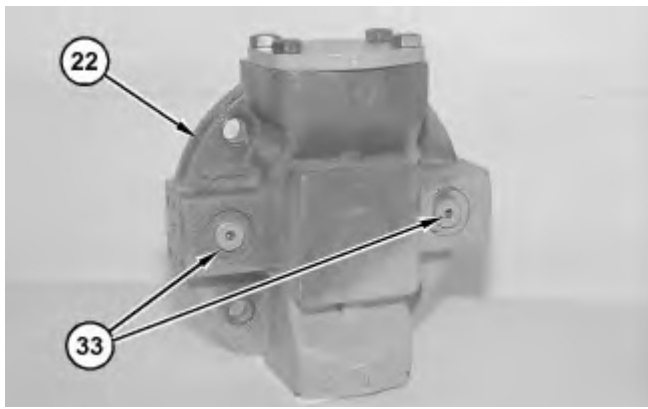


Illustration 9

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14. Remove plugs (33) from pump head (22) . Remove the O-ring seals from plugs (33) .

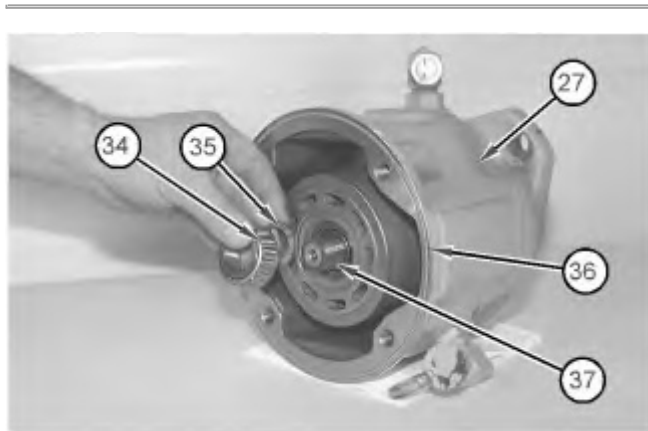


Illustration 10

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15. Remove bearing cone (34) and shim (35) from shaft (37) . Remove O-ring seal (36) from pump housing (27) .

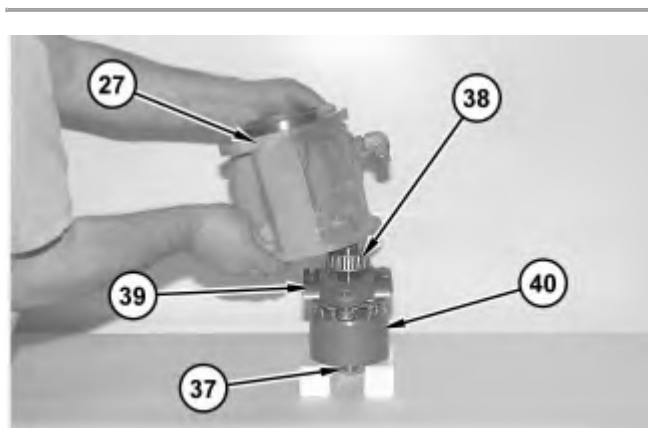


Illustration 11

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16. Turn the pump housing over 180 degrees and hold the components in the pump housing. Remove pump housing (27) from bearing cone (38) , shaft (37) , swashplate (39) , and rotating group (40) .

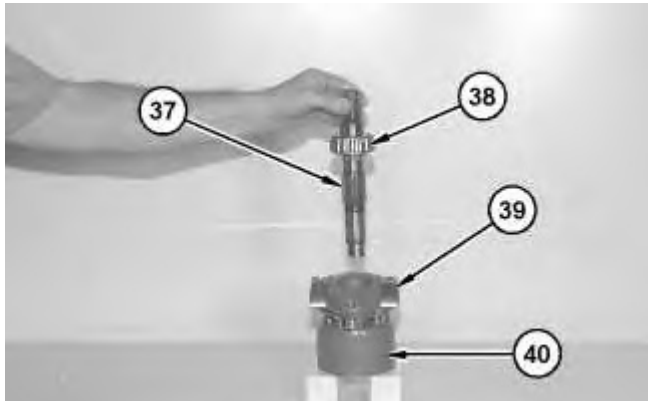


Illustration 12

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17. Remove shaft (37) and bearing cone (38) from swashplate (39) and rotating group (40) .

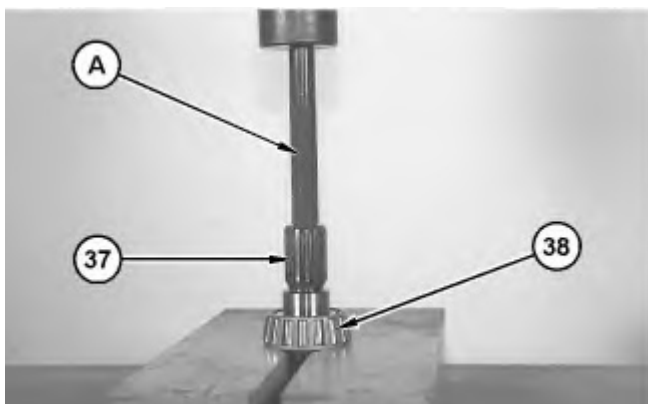


Illustration 13

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18. Use Tooling (A) and a suitable press in order to remove shaft (37) from bearing cone (38) .
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