



Service Repair Manual

Models

D250E II Articulated Truck

Product: ARTICULATED TRUCK

Model: D250E II ARTICULATED TRUCK 4PS

Configuration: D250E Series II Articulated Truck 4PS00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly

D250E Series II and D300E Series II Articulated Trucks Machine Systems

Media Number -SEN9129-01

Publication Date -01/09/2004

Date Updated -21/09/2004

i01017349

Piston Pump (Steering) - Disassemble

SMCS - 5070-015-ZH

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 (steering). Refer to Disassembly and Assembly, "Piston Pump (Steering) - Remove". The information is in this manual.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. 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 in Caterpillar machines.

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.

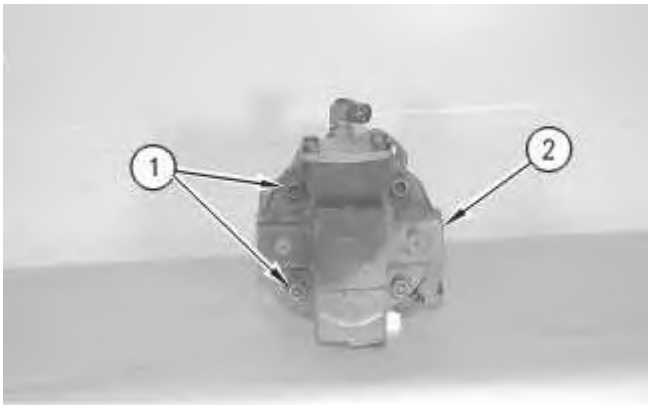


Illustration 1

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2. Remove four bolts (1) that secure pump head (2) to the pump assembly. The head is under spring tension. Remove the bolts slowly.

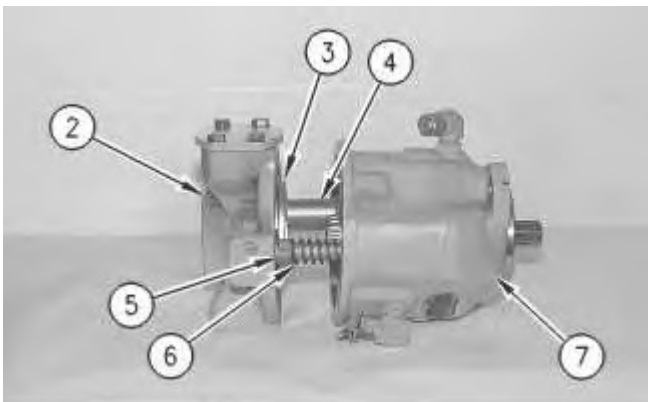


Illustration 2

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3. Remove pump head (2), plate (3), piston (4), plunger (5) and spring (6) as a unit from pump housing (7) .
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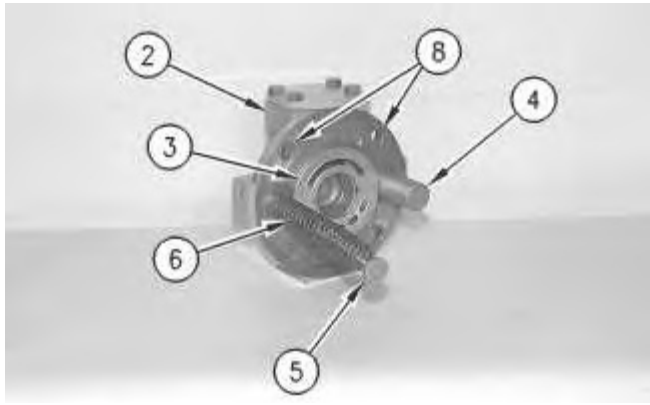


Illustration 3

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4. Remove plunger (5), spring (6), four O-ring seals (8), piston (4) and plate (3) from pump head (2) .

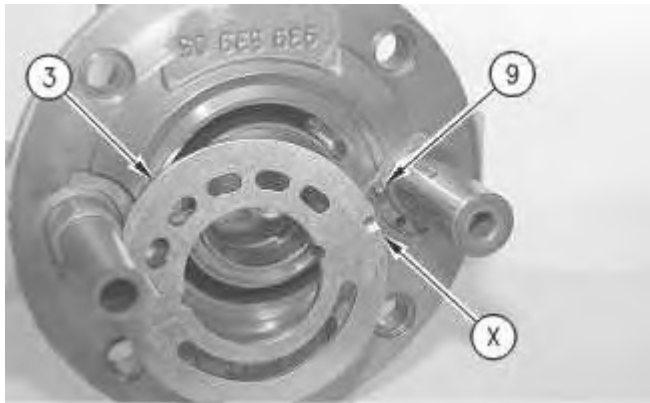
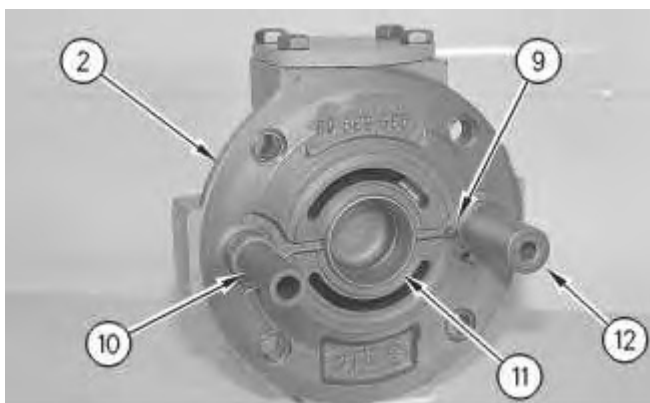


Illustration 4

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5. Plate (3) has been turned over by 180 degrees. Note the location of slot (X) that is in plate (3) for assembly purposes. Slot (X) will be positioned over locating pin (9) when plate (3) is installed to the pump head.



6. Cylinder (10) and guide (12) will not be removed from the head. If either cylinder (10) or guide (12) are damaged pump head (2) must be replaced. Remove pin (9) from pump head (2). Remove bearing cone (11) from pump head (2) .

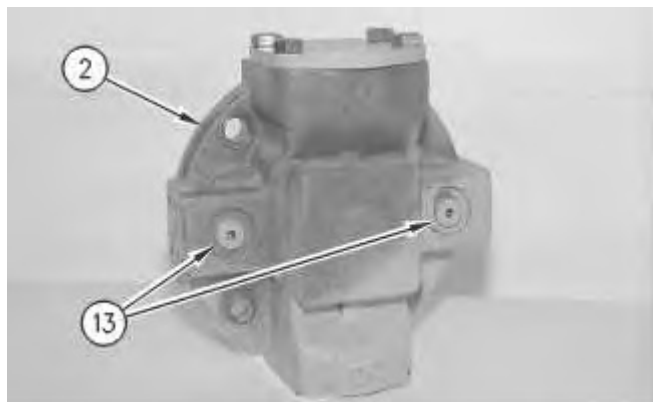


Illustration 6

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7. Remove plugs (13) from pump head (2). Remove the O-ring seals from plugs (13) .

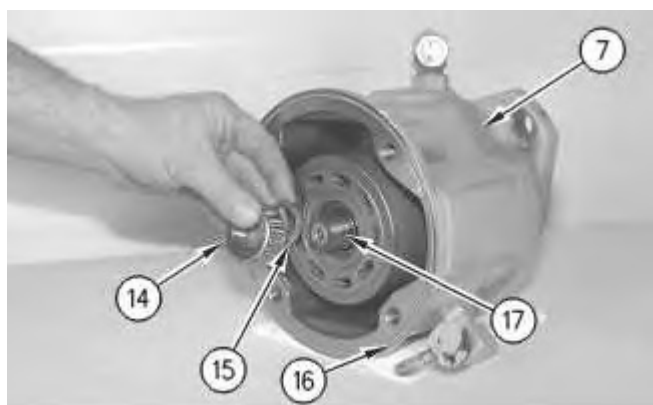


Illustration 7

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8. Remove roller bearing (14) and spacer (15) from shaft (17). Remove O-ring seal (16) from pump housing (7) .
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