



# Service Repair Manual

## **Models**

# M315C WHEELED Excavator

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Product: WHEELED EXCAVATOR

Model: M315C WHEELED EXCAVATOR BDM

Configuration: M315C Excavator BDM02001-UP (MACHINE) POWERED BY 3054E Engine

## Disassembly and Assembly M315C Excavator Machine Systems

Media Number -REN6971-03

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i01904607

# Piston Pump (Main Hydraulic) - Disassemble

SMCS - 5070-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1861	Retaining Ring Pliers	1
B	1U-7600	Slide Hammer Puller Gp	1

### Start By:

- A. Remove the main hydraulic pump. Refer to Disassembly and Assembly, "Main Hydraulic Pump - Remove".

**Note:** Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Precision components can be damaged by contaminants or by dirt. Perform disassembly procedures on a clean work surface. Keep components covered and protected at all times.

**Note:** Put identification marks on all hoses, on all hose assemblies, on all wires, and on all tube assemblies for installation purposes. Plug all hose assemblies and all tube assemblies. This helps to prevent fluid loss, and this helps to keep contaminants from entering the system.

**Note:** Put orientation and location marks on all fittings for installation purposes.

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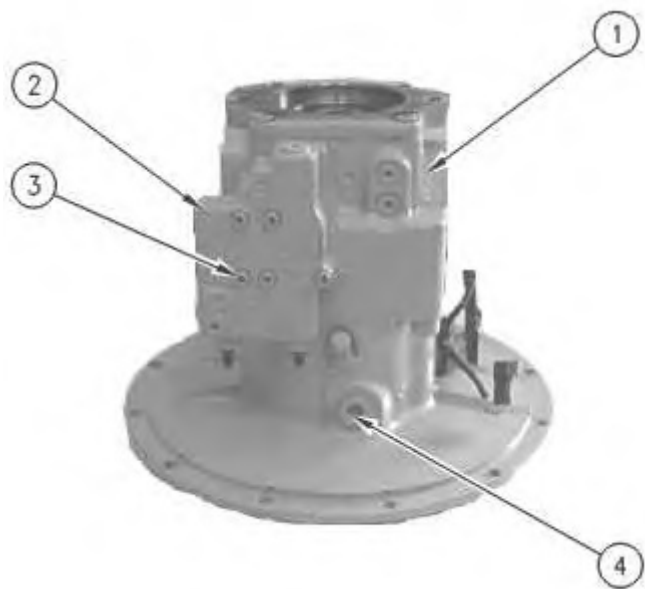
## NOTICE

**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 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.**

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Illustration 1

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1. Remove drain plug (4) from main hydraulic pump (1). Drain the oil from main hydraulic pump (1) into a suitable container.
  2. Remove bolts (3) from valve group (2). Remove valve group (2) from main hydraulic pump (1) .
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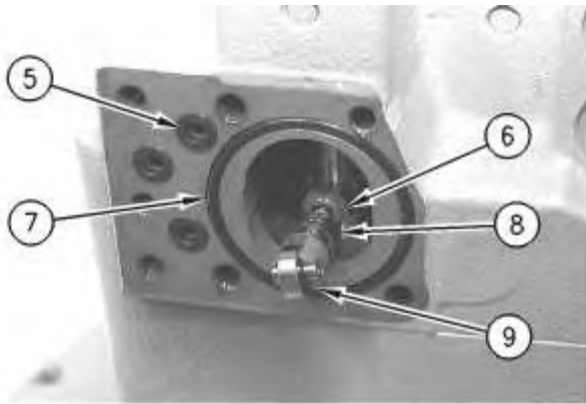


Illustration 2

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## WARNING

**Personal injury can result from parts and/or covers under spring pressure.**

**Spring force will be released when covers are removed.**

**Be prepared to hold spring loaded covers as the bolts are loosened.**

3. Remove O-ring seals (5) and O-ring seal (7) .
4. Remove roller (9), spring (8), and piston (6) .

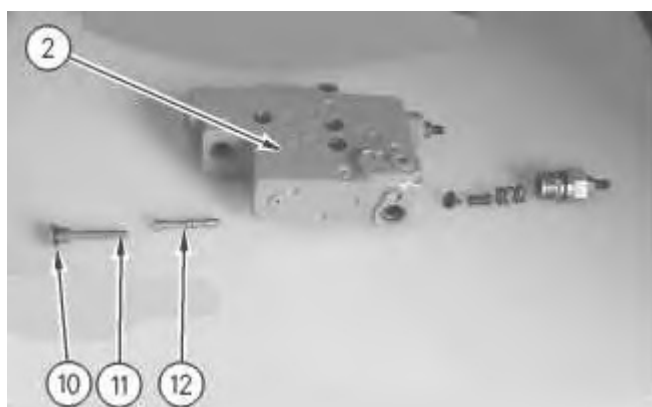


Illustration 3

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5. Remove plug assembly (11). Remove O-ring seal (10) from plug assembly (11) .
6. Remove piston (12) .

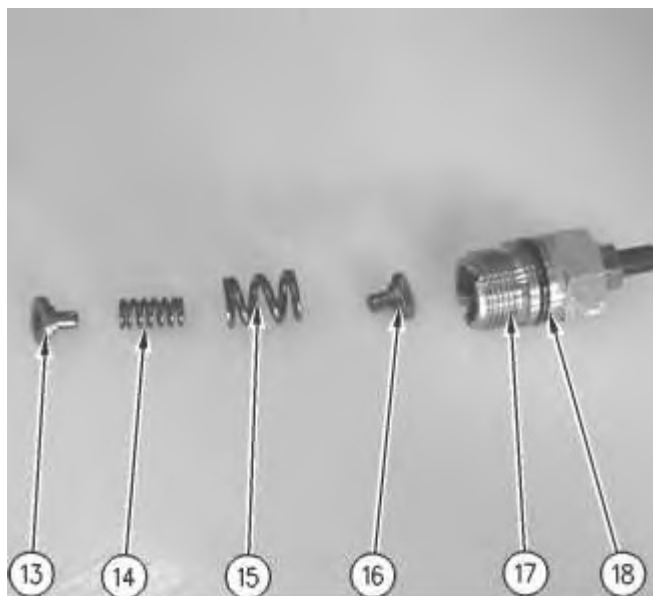


Illustration 4

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## WARNING

**Personal injury can result from parts and/or covers under spring pressure.**

**Spring force will be released when covers are removed.**

**Be prepared to hold spring loaded covers as the bolts are loosened.**

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7. Remove plug (17). Remove spring retainer (16), spring (15), spring (14), and spring retainer (13) from plug (17). Remove O-ring seal (18) from plug (17) .
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