



# Service Repair Manual

## **Models**

**M316D WHEELED Excavator**

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Product: WHEELED EXCAVATOR

Model: M316D WHEELED EXCAVATOR D6W

Configuration: M316D Excavator D6W00001-UP (MACHINE) POWERED BY C6.6 Engine

## Disassembly and Assembly M316D, M318D and M322D Wheeled Excavators Machine Systems

Media Number -UENR0123-01

Publication Date -01/04/2015

Date Updated -15/04/2015

i02939433

## Swing Drive - Remove

SMCS - 5459-011

## Removal Procedure

Table 1

| Required Tools |             |                  |     |
|----------------|-------------|------------------|-----|
| Tool           | Part Number | Part Description | Qty |
| A              | 138-7575    | Link Bracket     | 2   |

### Start By:

- A. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".
- B. Remove the swing motor. Refer to Disassembly and Assembly, "Swing Motor - Remove".

**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.

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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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Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

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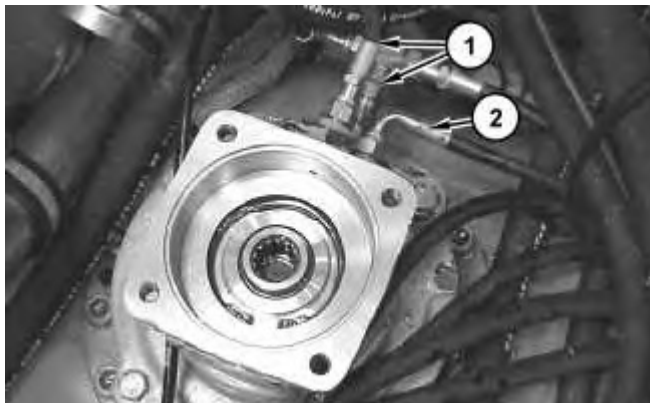
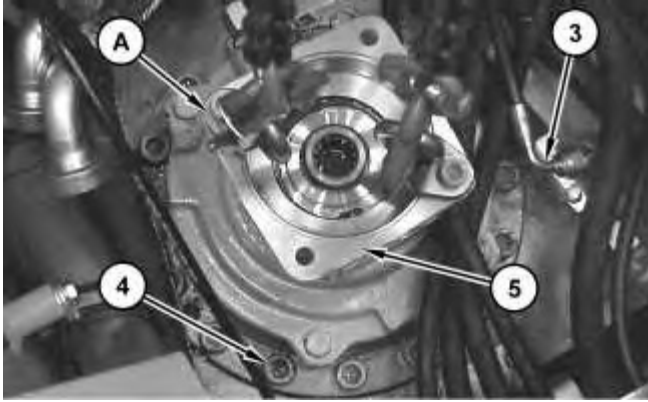


Illustration 1

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1. Disconnect hose assemblies (1) and (2) .
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Illustration 2

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2. Disconnect hose assembly (3) .
3. Attach Tooling (A) and a suitable lifting device to swing drive (5) .
4. Remove bolts (4) .
5. Remove swing drive (5). The weight of swing drive (5) is approximately 75 kg (165 lb).

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Media Number -UENR0123-01

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## Swing Drive - Disassemble

SMCS - 5459-015

## Disassembly Procedure

Table 1

| Required Tools |             |                               |     |
|----------------|-------------|-------------------------------|-----|
| Tool           | Part Number | Part Description              | Qty |
| A              | 138-7575    | Link Bracket                  | 2   |
| B              | 1P-0510     | Driver Gp                     | 1   |
| C              | 1U-8759     | Retaining Ring Pliers         | 1   |
| D              | 5P-4758     | Retaining Ring Pliers         | 1   |
| E              | 1P-1859     | Retaining Ring Pliers         | 1   |
| F              | 1P-1855     | Retaining Ring Pliers         | 1   |
| G              | 156-7100    | Puller                        | 1   |
| H              | 1P-1863     | Retaining Ring Pliers         | 1   |
| J              | 305-4538    | Spanner Socket <sup>(1)</sup> | 1   |
|                | 240-8274    | Insert <sup>(2)</sup>         | 1   |
|                | 174-9465    | Spanner Socket <sup>(3)</sup> | 1   |
| K              | 1P-0520     | Driver Gp                     | 1   |

<sup>(1)</sup> Used on the part number **152-7372** Swing Drive Gp

<sup>(2)</sup> Used on the part number **152-7372** Swing Drive Gp

<sup>(3)</sup> Used on the part number **152-7375** Swing Drive Gp

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