



# Service Repair Manual

## **Model**

320C U and 320C LU Excavator

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Product: EXCAVATOR

Model: 320C EXCAVATOR MAC

Configuration: 320C U & 320C LU Excavators MAC00001-UP (MACHINE) POWERED BY 3066 Engine

## Disassembly and Assembly 320C Excavator Machine Systems

Media Number -REN3826-16

Publication Date -01/11/2014

Date Updated -30/03/2016

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# Main Hydraulic Pump and Pump Drive Coupling - Remove

SMCS - 5070-011-MV; 5234-011-MV

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
(A)	FT-2674	Vacuum Cap	1
(B)	138-7573	Link Bracket	1
(C)	138-7575	Link Bracket	2

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### NOTICE

**Keep all parts clean from contaminants.**

**Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.**

**To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.**

**Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.**

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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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At operating temperature, the hydraulic oil is hot and under pressure. Hot oils can cause burns.

To prevent possible personal injury, release the pressure in the implement hydraulic circuit (boom, stick, bucket, and swing), travel circuits, and the hydraulic oil tank at the filler cap before any hydraulic lines or components are disconnected or removed.

Remove the filler cap only when the engine is stopped and the filler cap is cool enough to touch.

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**Note:** The following procedure has an attachment valve that is mounted next to the main pump. The exact amount of hoses will vary depending on your machine configuration. Remove only the hoses that are necessary to remove the main hydraulic pump.

1. Release the hydraulic system pressure.

**Reference:** Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release" in this manual.

**Note:** A hydraulic oil sample should be obtained before any maintenance is performed in order to establish the system contaminant level. Refer to Fluid Analysis Laboratory Guide, SEBF3116, "Obtaining an Oil Sample for S·O·S Analysis". Refer to Operation and Maintenance Manual, "Sampling Interval and Location of Sampling Valve" for the correct location.

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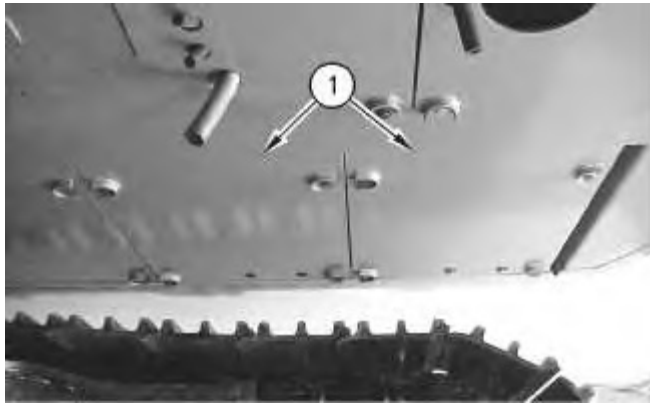


Illustration 1

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2. Remove eight bolts and the washers in order to remove two access covers (1) that are under the main hydraulic pump.
3. Drain the oil from the hydraulic oil tank into a suitable container for storage or disposal. The capacity of the hydraulic oil tank is 120 L (32 US gal).

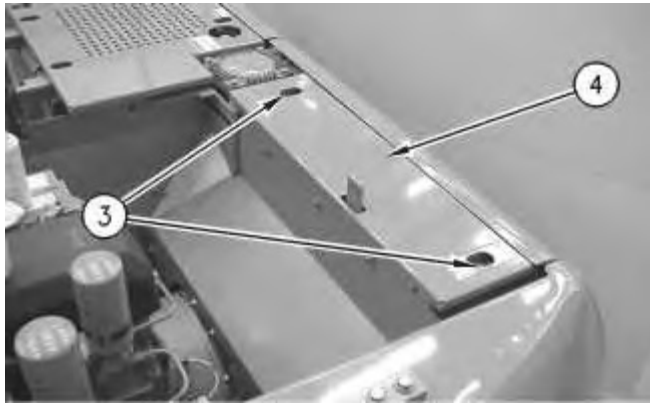
**Reference:** Refer to Operation and Maintenance, "Hydraulic System Oil - Change" in the service manual.



Illustration 2

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4. Open access door (2) on the right side of the machine.

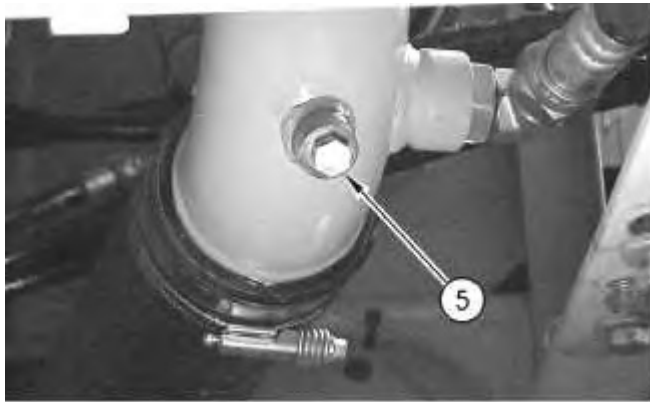


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Illustration 3

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5. Remove two bolts (3) and the washers.
6. Remove cover (4) .



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Illustration 4

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7. Place a suitable container for storage or disposal under the main pump suction line.
  8. Remove plug (5) from the main pump suction line.
  9. Drain the oil from the main pump suction line.
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