



# Service Repair Manual

## **Models**

312C and 312C L Excavator

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Product: EXCAVATOR

Model: 312C EXCAVATOR DBN

Configuration: 312C & 312C L Excavators DBN00001-UP (MACHINE) POWERED BY 3064 Engine

## Disassembly and Assembly 3064 and 3066 Engines for Caterpillar Built Machines

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

i01565175

# Fuel Injection Pump - Remove

SMCS - 1251-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6124	Universal Metric Socket Set	1
B	9U-6128	Universal Metric Socket <sup>(1)</sup>	1

<sup>(1)</sup> Part of the Universal Metric Socket Set

### Start By:

- A. Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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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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1. Ensure that the engine is the top center position on number one piston. Refer to Testing and Adjusting, "Finding Center Position for No. 1 Piston".

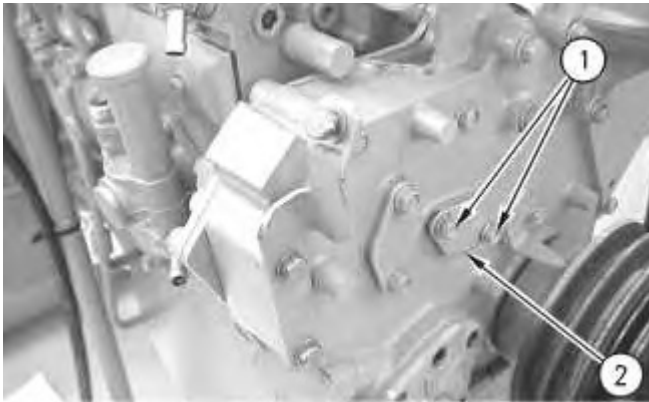


Illustration 1

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2. Remove bolts (1) and washers that secure the cover (2) to the engine front housing.
3. Remove the access cover. Note the timing marks on the fuel injection pump drive gear and the idler gear for later installation.

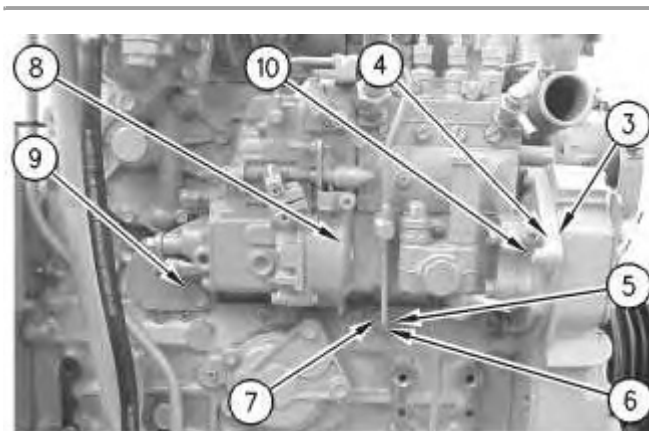


Illustration 2

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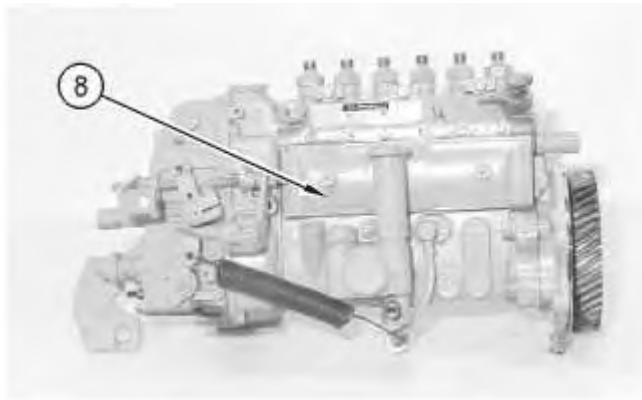
4. Scribe a line across the front plate (3) and the mounting flange for the fuel injection pump (4). This ensures proper alignment for the installation of fuel injection pump (8) .
5. Loosen fitting (5) for oil line (6) .
6. Remove oil line (6) from nipple (7) (not shown).

**Note:** Put caps or plugs on all openings immediately in order to prevent contamination.

7. Use a lifting sling and a hoist in order to secure the fuel injection pump. The weight of the fuel injection pump is 13 kg (29 lb).

**Note:** Use Tool (B) to remove the bolts and the washers that mount the fuel injection pump (8) .

8. Remove bolt (9) and the washer from the cylinder block.
9. Remove four bolts (10) and the washers that secure the fuel injection pump to the front housing.



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Illustration 3

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10. Remove the fuel injection pump (8). The gear and the mounting flange will remain with the fuel injection pump.

**Note:** The fuel injection pump must be mounted to the engine in order to loosen the nut for the drive gear.

**Note:** Do not rotate the engine after the fuel injection pump is removed.

11. Ensure that the old gasket material is removed from all mating surfaces of the pump mounting flange and the face of the fuel injection pump flange.

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i01565619

# Fuel Injection Pump - Install

SMCS - 1251-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part number	Part Description	Qty
A	9U-6124	Universal Metric Socket Set	1
B	9U-6128	Universal Metric Socket <sup>(1)</sup>	1

<sup>(1)</sup> Part of the Universal Metric Socket Set

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**Note:** If the nut for the fuel injection pump drive gear is removed, you must tighten the nut for the fuel injection pump drive gear to  $88 \pm 5 \text{ N}\cdot\text{m}$  ( $65 \pm 4 \text{ lb ft}$ ).

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