



# Service Repair Manual

## **Models**

330-A L, 330, 330L Excavator

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Product: EXCAVATOR

Model: 330-A L EXCAVATOR 9ML

Configuration: 330, 330L TRACK-TYPE EXCAVATORS 9ML00001-UP (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly 3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SEN5598-09

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i00894497

# Fuel Injection Pump - Install

SMCS - 1251-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2244	Pump Extractor	1
B	6V-4186	Fuel Pump Timing Pin	1
C	8T-5287	Wrench	1
D	6V-9128	Rack Position Tool Group	1
	3S-3270	Indicator Contact Point	1
	C-clamp		1

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### NOTICE

**Keep all parts clean from contaminants.**

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

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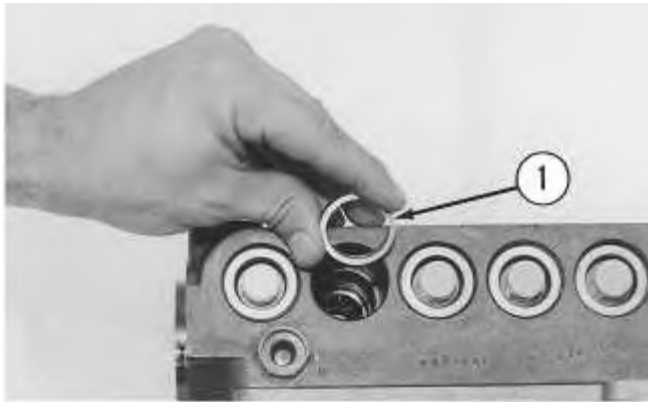


Illustration 1

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1. Install spacer (1) in the fuel injection pump housing.

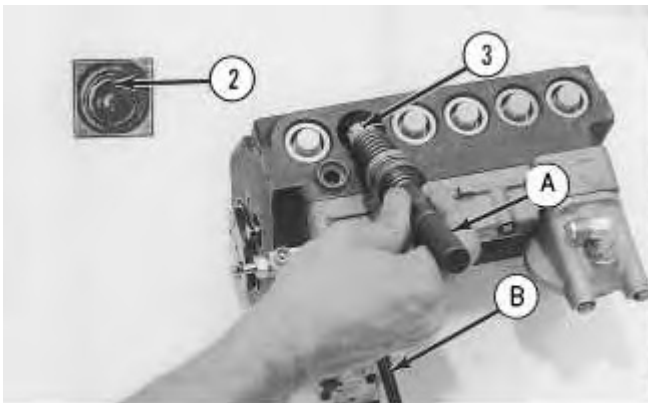


Illustration 2

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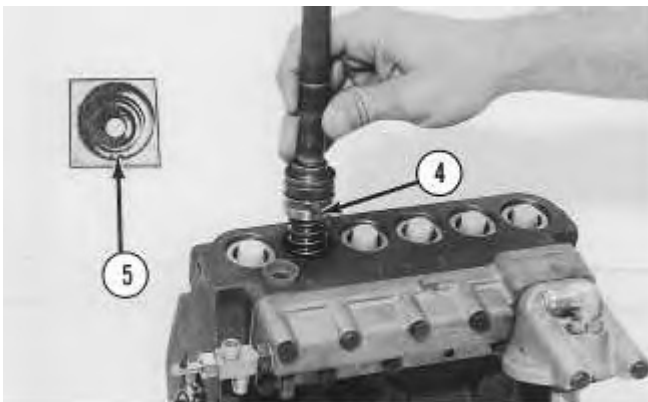


Illustration 3

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2. Install Tool (B) in the fuel injection pump housing. Move the rack until Tool (B) can be installed in order to hold the rack in the center position. The rack must be in the center position in order to install the fuel injection pumps.

3. Turn the camshaft until the lobe of the camshaft is downward so that the fuel injection pump can be installed.
4. Install Tool (A) on the bonnet of the fuel injection pump.
5. Install the fuel injection pump in the fuel injection pump housing. Ensure that slot (3) that is cut in the gear is aligned with the small pin (2) and groove (4) in the barrel. The small pin (2) and groove (4) in the barrel are aligned with dowel (5) in the fuel injection pump housing.

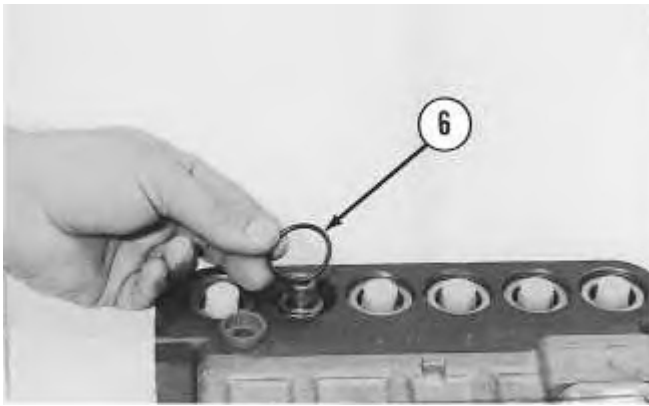


Illustration 4

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6. Put clean engine oil on O-ring seal (6) and install the O-ring seal in the fuel injection pump housing.

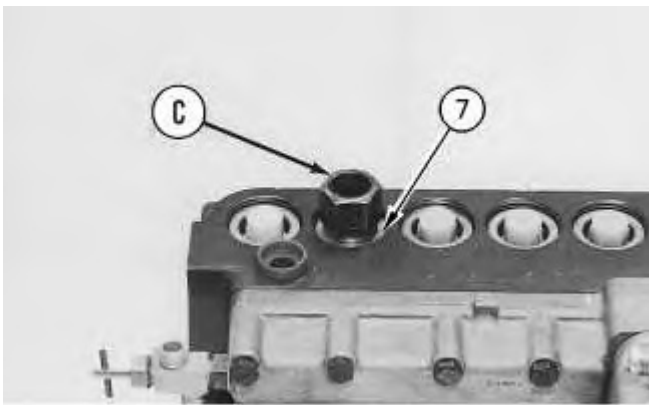


Illustration 5

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7. Install bushing (7) by hand until the bushing is even with the top of the fuel injection pump housing. If bushing (7) cannot be installed by hand, remove bushing (7). Remove the fuel injection pump. Put the pump in alignment and reinstall bushing (7) .
8. Install Tool (C) on bushing (7) and tighten the bushing to a torque of  $163 \pm 14$  N·m ( $120 \pm 10$  lb ft).

9. Install Tool (D) in order to measure the total travel of the rack. The correct travel for the rack is 15.70 mm (.618 inch). A smaller measurement is an indication of improper fuel injection pump installation.
10. Repeat Steps 1 through 9 in order to install the remaining fuel injection pumps.
11. Install the cover and the gasket on the fuel injection pump housing.

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