



Service Repair Manual

Models

320D2 Excavator

Product: EXCAVATOR

Model: 320D2 EXCAVATOR NBF

Configuration: 320D2 & 320D2 L Excavators NBF00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly

C7.1 (Mech) Engines for Caterpillar Built Machines

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i04780456

Fuel Injection Pump Gear - Install

SMCS - 1251-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A ⁽¹⁾	9U-7336	Crankshaft Turning Tool	1
A ⁽²⁾	5P-7305	Housing	1
	5P-7305	Engine Turning Tool	1
B	230-6284	Timing Pin (Camshaft)	1
C	136-4632	Timing Pin (Crankshaft)	1
	268-1966	Adapter	1

⁽¹⁾ The Crankshaft Turning Tool is used on the front pulley.

⁽²⁾ This Tool is used in the aperture for the electric starting motor.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: The fuel injection pump must remain locked until the procedure instructs you to unlock the fuel injection pump.

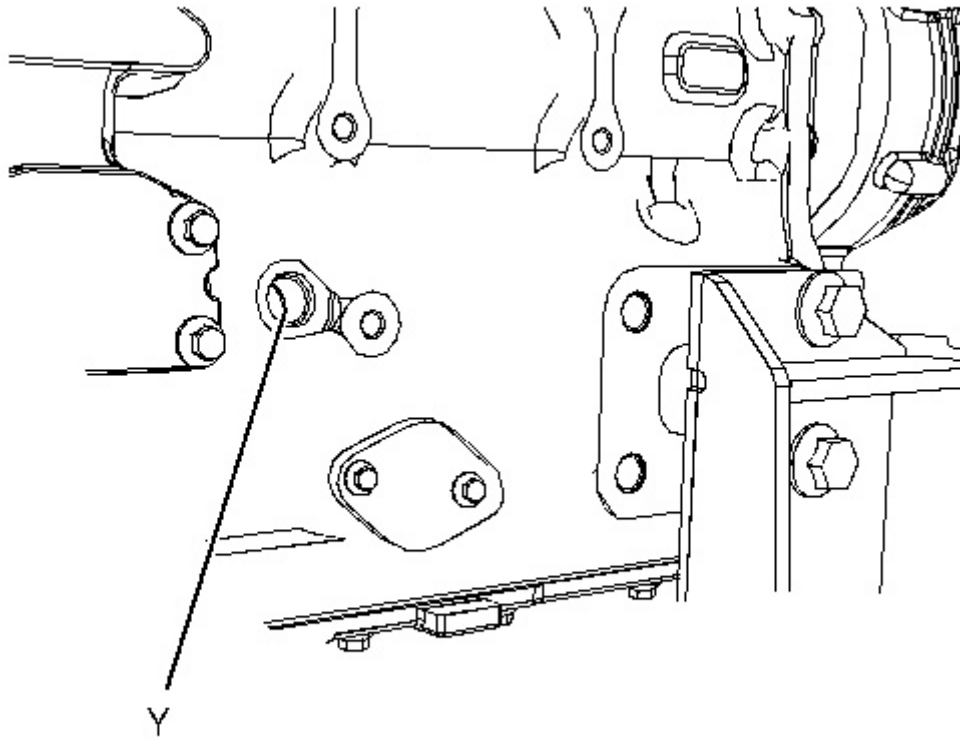


Illustration 1

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1. If necessary, use Tooling (A) to ensure that number one piston is at top dead center on the compression stroke. Refer to System Operation, Testing and Adjusting, "Finding Top Center Position for No.1 Piston".
 2. Ensure that Tooling (C) is installed in Hole (Y) in the cylinder block. Use Tooling (C) in order to lock the crankshaft in the correct position.
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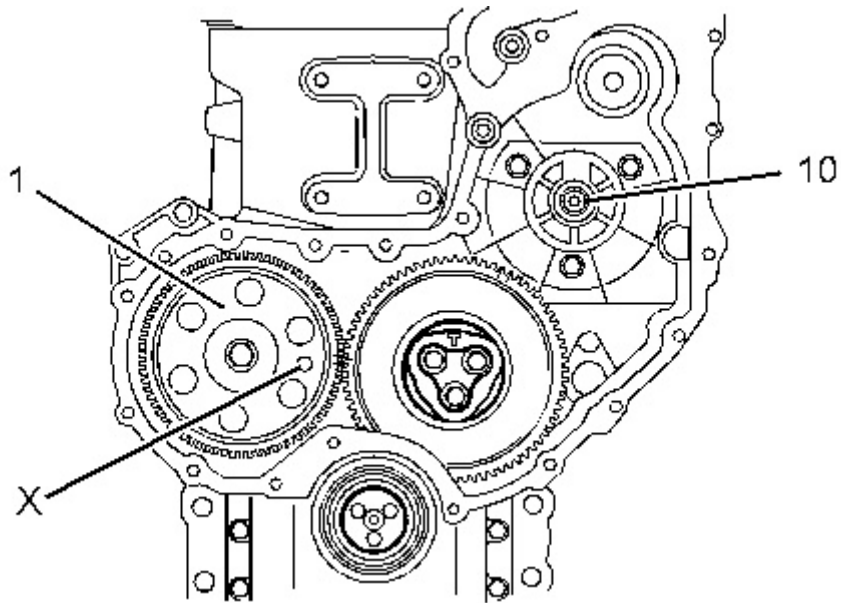


Illustration 2

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3. Ensure that Tooling (B) is installed into Hole (X) in camshaft gear (1).
4. Ensure that shaft (10) of the fuel injection pump is clean and free from damage.
5. Ensure that the fuel injection pump is locked in the correct position. Refer to Disassembly and Assembly, "Fuel Injection Pump - Install".
6. Ensure that the fuel pump gear is clean and free from wear or damage. If necessary, replace the fuel pump gear.

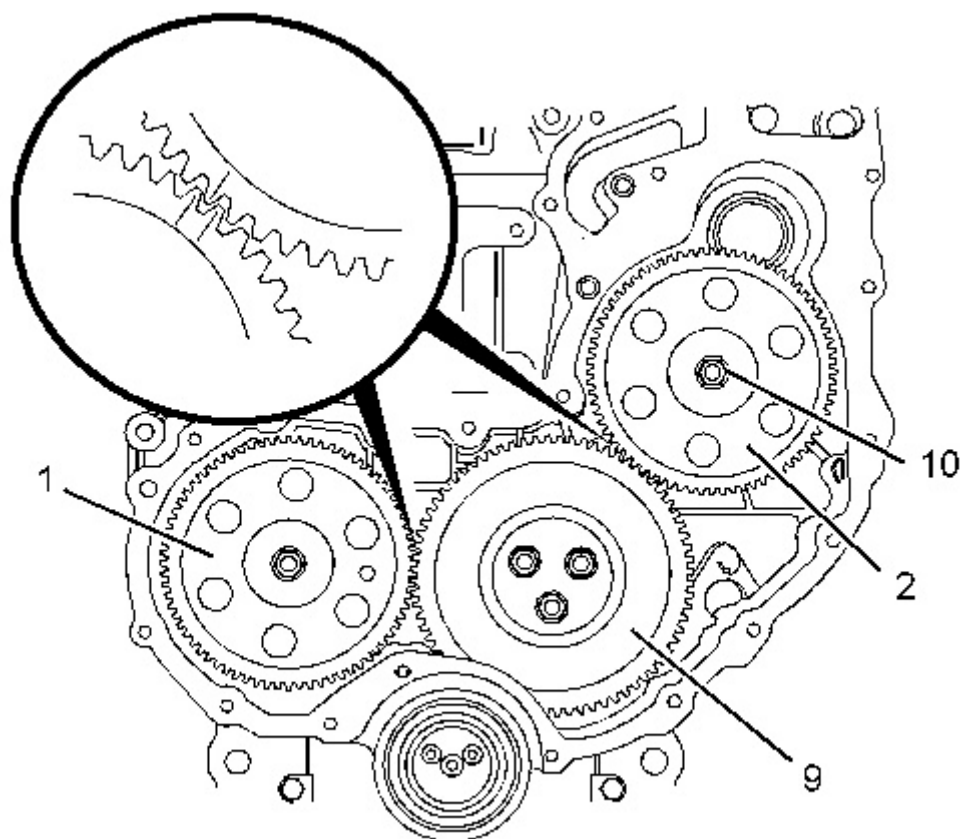


Illustration 3

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7. Install fuel pump gear (2) to shaft (10) of the fuel injection pump. Ensure that the timing marks on gear (1), gear (2), and gear (9) are in alignment and that the mesh of the gears is correct.
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