



Service Repair Manual

Model

235 EXCAVATOR

Product: EXCAVATOR

Model: 235 EXCAVATOR 32K

Configuration: 235 EXCAVATOR 32K00789-01300 (MACHINE) POWERED BY 3306 ENGINE

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

Media Number -SEN5598-09

Publication Date -01/01/2013

Date Updated -25/01/2013

i00935398

Automatic Timing Advance - Install

SMCS - 1272-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-4186	Fuel Pump Timing Pin	1
B	0L-2070	Bolt	1
C	5P-7307	Engine Turning Tool	1
D	4C-9874	Spanner Wrench	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



Illustration 1

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1. Install washer (1) and bolt (2). Ensure that the cover of the fuel pump housing is removed. Turn the fuel pump camshaft in the direction of the engine rotation until Tool (A) can be installed in the notch of the camshaft.
2. Install Tool (A) and (B) into position. Install the weight assembly for the timing advance on the fuel injection pump camshaft.



Illustration 2

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3. Use Tool (D) on the automatic timing advance and maintain a constant torque of 68 N·m (50 lb ft). Tighten the bolt that fastens the automatic timing advance to the fuel pump camshaft to a torque of 270 ± 25 N·m (200 ± 18 lb ft).
4. Remove Tools (A), (B), (C) and (D). Install the starting motor.

End By: Install the front housing. Refer to Disassembly and Assembly, "Front Housing - Install".

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Fuel Injection Pump Housing and Governor - Remove

SMCS - 1286-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2264	Pump Impeller Puller	1
	8B-7560	Step Plate	1
	0T-0513	Bolt	2
	5P-1075	Hard Washer	2

Start By:

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

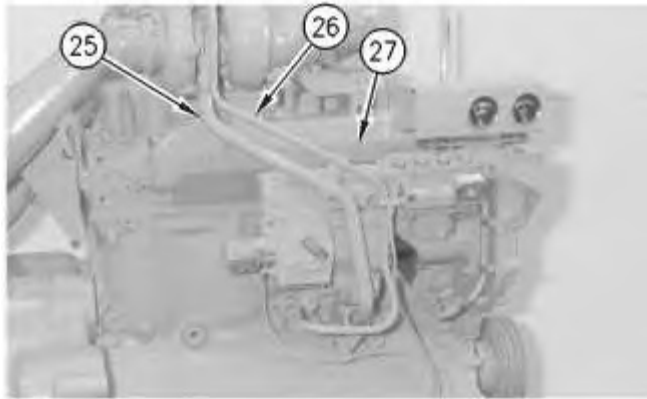


Illustration 1
3304B Engine

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1. On the 3304B engine, remove oil supply line (26), oil drain line (25), and heat shield (27). Inspect the O-ring seal around oil drain line (25). Replace the O-ring seal if the O-ring seal is damaged. Remove the gaskets and the screen from the top of the turbocharger.

Note: The following illustrations are of a 3306B engine.



Illustration 2

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2. Remove six nuts (1) and the washers and remove cover (2).

Note: Separate nut (1) and the mounting stud, if the nut and the mounting stud come out of the housing together. Apply thread sealant to the mounting studs and reinstall the mounting studs to a depth of 19.0 ± 0.8 mm (0.74 ± 0.03 inch).

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