

Product: VIBRATORY COMPACTOR

Model: CB-534B VIBRATORY COMPACTOR 5RN

Configuration: CB-534B Vibratory Compactor 5RN00001-UP (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

Media Number -SEN6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

i03140046

Camshaft Gear - Remove and Install

SMCS - 1210-010-GE

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Name	Qty
A	1U-6671	Puller Gp	1
	8S-4712	Bolt	2
	1P-0510	Driver Group	1

Start By:

- Remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".
 - Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove".
-

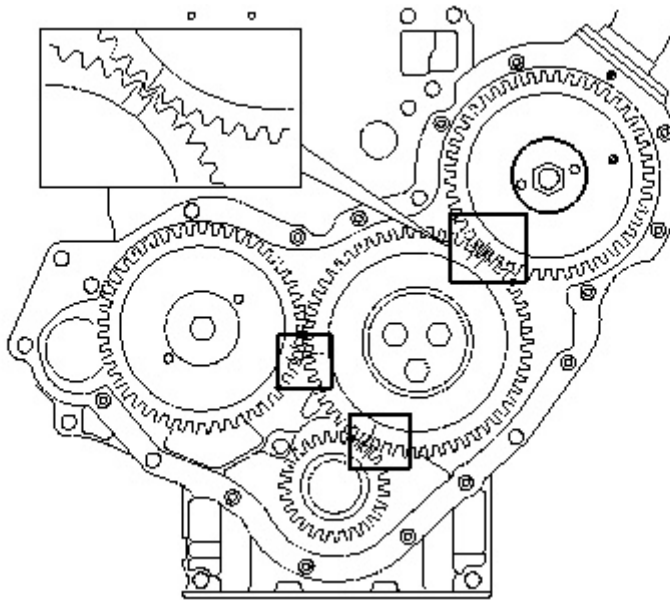


Illustration 1

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1. Rotate the crankshaft until the timing marks on the crankshaft gear, the camshaft gear, and the fuel injection pump gear are aligned, as shown.

Note: The timing marks on the idler gear may not be aligned. This is caused by the difference in the speed of the rotation of the idler gear.

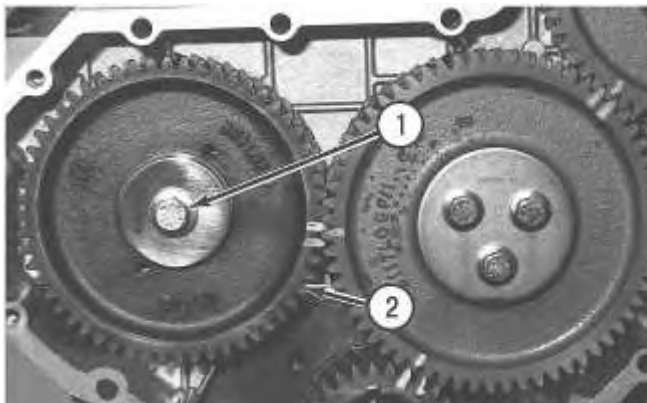


Illustration 2

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2. Remove bolt (1) and the washer from the camshaft gear (2).
-



Illustration 3

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3. Install Tooling (A) and remove camshaft gear.

Note: Do not lose the key from the camshaft gear.

4. Inspect the camshaft gear for wear and damage. Replace the gear, if necessary.

Installation Procedure

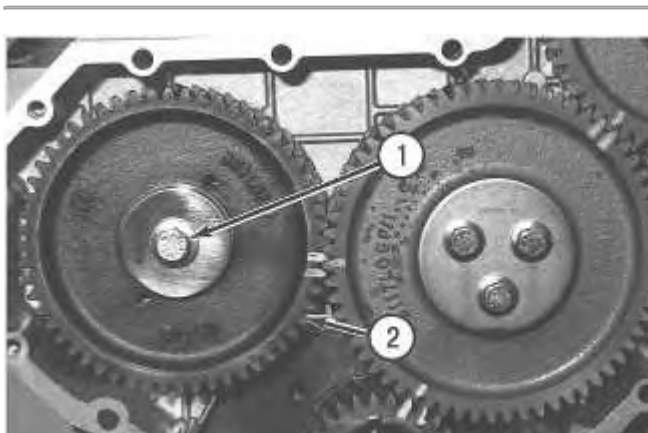


Illustration 4

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1. Install camshaft gear (2) in the front housing.

Note: When you install the camshaft gear, ensure that the teeth that have the timing marks are facing toward the front. Also, ensure that the key is aligned properly in the keyway. If necessary, tap the gear with a soft hammer in order to seat the key in the keyway.

2. If necessary, remove the idler gear in order to align the gear teeth correctly.
3. Install the washer and bolt (1) on the camshaft gear. Tighten bolt (1) to a torque of 95 N·m (70 lb ft).

Note: Ensure that the timing marks on the camshaft gear, the crankshaft gear, and the fuel injection pump gear are aligned.

4. If a new camshaft gear is used, check the backlash of the camshaft gear. The minimum backlash for a new gear is 0.08 mm (0.003 inch).

End By:

- a. Install the front cover. Refer to Disassembly and Assembly, "Front Cover - Install".
- b. Install the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".

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i06043534

Camshaft Bearings - Remove and Install

SMCS - 1211-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2241	Camshaft Bearing Tool Group	1
	8H-0684	Ratchet Wrench	1

Start By:

- If the engine is equipped with a balancer, remove the balancer. Refer to Disassembly and Assembly, "Balancer - Remove". If the engine is not equipped with a balancer, remove the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Remove" for the correct procedure.
- Remove the camshaft. Refer to Disassembly and Assembly, "Camshaft - Remove and Install" for the correct procedure.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

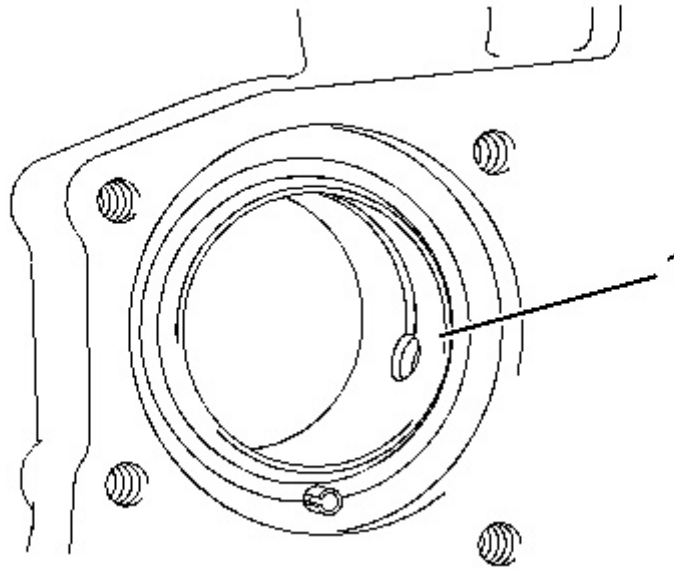


Illustration 1

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1. Inspect camshaft bearing (1) . Refer to Specifications, "Camshaft Bearings" for more information.
2. For worn or damaged camshaft bearing (1) use Tooling (A) in order to remove the camshaft bearing from the cylinder block.

Note: Remove the camshaft bearing from the front of the cylinder block.

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2241	Camshaft Bearing Tool Group	1
	8H-0684	Ratchet Wrench	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Clean the bearing housing in the cylinder block. Ensure that the oil holes in the bearing housing are free from debris.

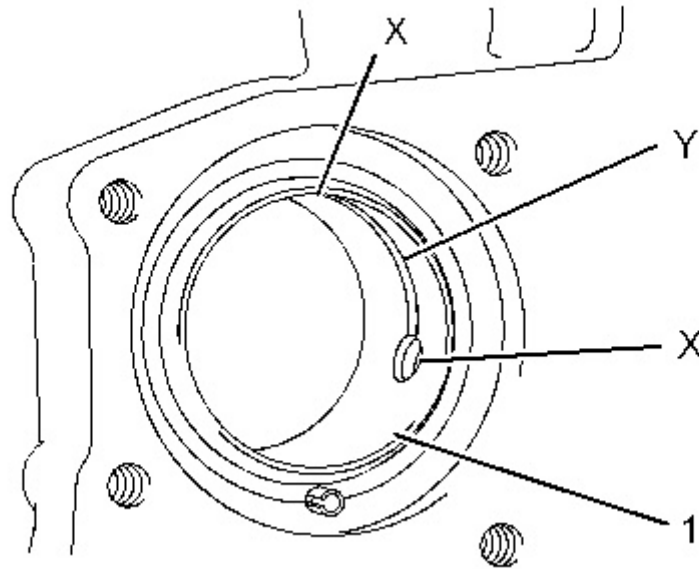


Illustration 2

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2. Lubricate the bearing housing in the cylinder block with clean engine oil.
3. Accurately align two Oil Holes (X) in camshaft bearing (1) with the two oil holes in the cylinder block.

Note: Groove (Y) in the camshaft bearing must be to the top of the cylinder block.

4. Use Tooling (A) in order to install camshaft bearing (1) into the cylinder block. Install the camshaft bearing so that the front edge of the bearing is flush with the face of the recess in the cylinder block.

Note: Ensure that all oil holes are correctly aligned. If the oils are not correctly aligned, the camshaft bearing should be removed.

End By:

- a. Install the camshaft. Refer to Disassembly and Assembly, "Camshaft - Remove and Install" for the correct procedure.
- b. If the engine is equipped with a balancer, install the balancer. Refer to Disassembly and Assembly, "Balancer - Install". If the engine is not equipped with a balancer, install the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Install" for the correct procedure.

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