



Service Repair Manual

Models

325C and 325C L Excavator

Product: EXCAVATOR

Model: 325C EXCAVATOR AMH

Configuration: 325C & 325C L Excavators AMH00001-UP (MACHINE) POWERED BY 3126B Engine

Disassembly and Assembly 3126B Engines for Caterpillar Built Machines

Media Number -SEN9581-06

Publication Date -01/08/2018

Date Updated -17/08/2018

i01196838

Camshaft - Remove

SMCS - 1210-011

Removal Procedure

Start By:

- a. Remove the lifter group. Refer to Disassembly and Assembly, "Lifter Group - Remove and Install".
- b. Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

1. Turn the crankshaft to top center compression stroke for the No. 1 piston. Install the timing bolt in the flywheel. This is for timing during installation.
2. Ensure that the timing marks on the following gears are aligned: the camshaft drive gear, the idler gear and the crankshaft gear.

Note: It is not necessary to remove the cylinder head for removal of the camshaft.

3. Wire the valve lifters away from the camshaft.

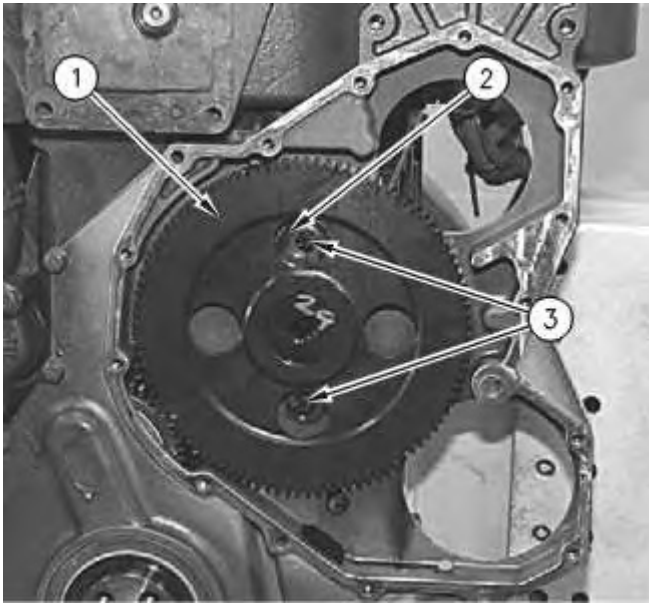


Illustration 1

g00640035

4. Remove two bolts (3) and camshaft retainer plate (2) from camshaft gear (1).

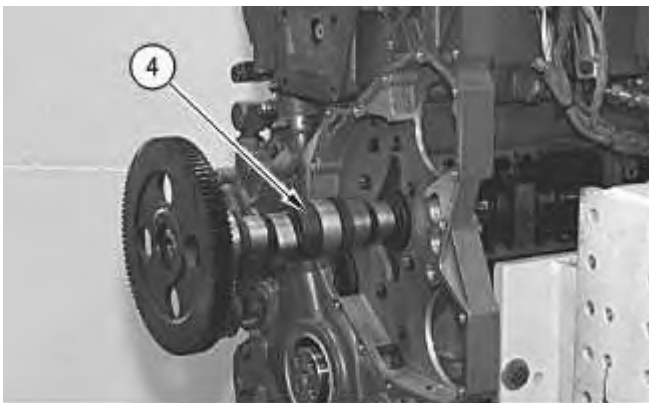


Illustration 2

g00640030

5. Remove camshaft (4) from the cylinder block.
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i01196611

Camshaft - Install

SMCS - 1210-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

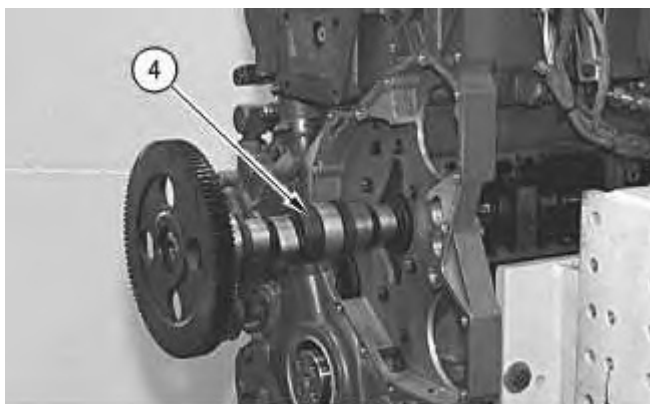


Illustration 1

g00640030

1. Carefully install camshaft (4) in the engine.

NOTICE

When installing the camshaft, make sure the number one cylinder is at top center of the compression stroke with the timing bolt installed in the flywheel. The camshaft timing is very important. The timing mark on the camshaft drive gear must line up with the timing mark on the idler gear. Refer to the Specifications Manual for more information.

2. Ensure that the timing marks on the following gears are aligned: the camshaft drive gear, the idler gear and the crankshaft gear.

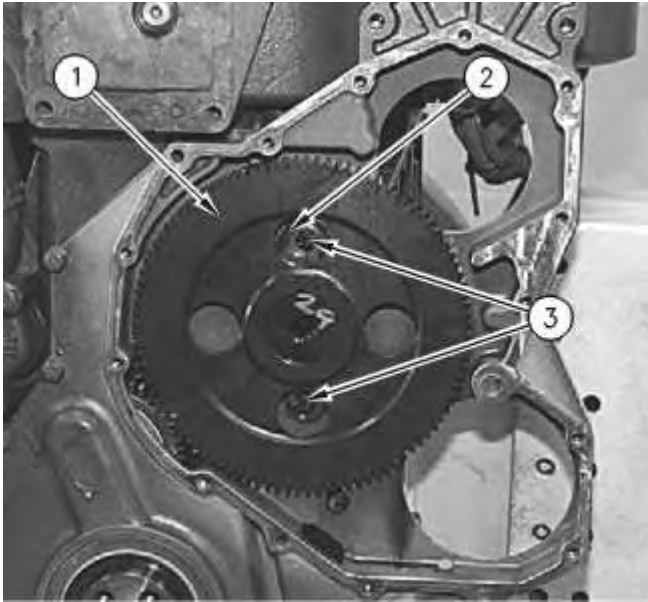


Illustration 2

g00640035

3. Install camshaft retainer plate (2) and two bolts (3) on camshaft gear (1).

End By:

- a. Install the front cover. Refer to Disassembly and Assembly, "Front Cover - Install".
- b. Install the lifter group. Refer to Disassembly and Assembly, "Lifter Group - Remove and Install".

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i01983227

Camshaft Gear - Remove and Install

SMCS - 1210-010-GE

Removal Procedure

Start By:

- a. Remove the camshaft. Refer to Disassembly and Assembly, "Camshaft - Remove".
 1. Wrap the camshaft with a protective covering in order to prevent damage to the camshaft.

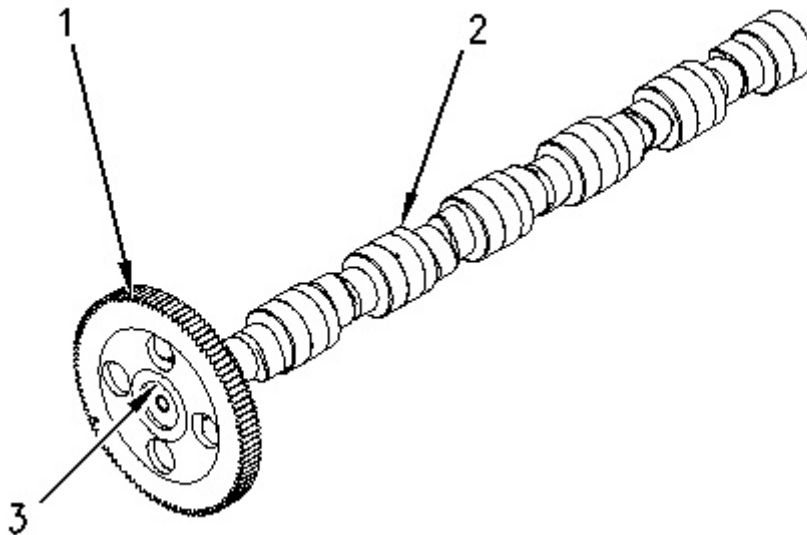


Illustration 1

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NOTICE

Do not allow the camshaft to fall to the floor when pressing it from the drive gear. Also make sure that the camshaft lobes do not catch on the press plates.

2. Place camshaft (2) and camshaft gear (1) in a suitable press. Press camshaft (2) from camshaft gear (1).
3. If necessary, remove the key (3) from the camshaft.

Installation Procedure

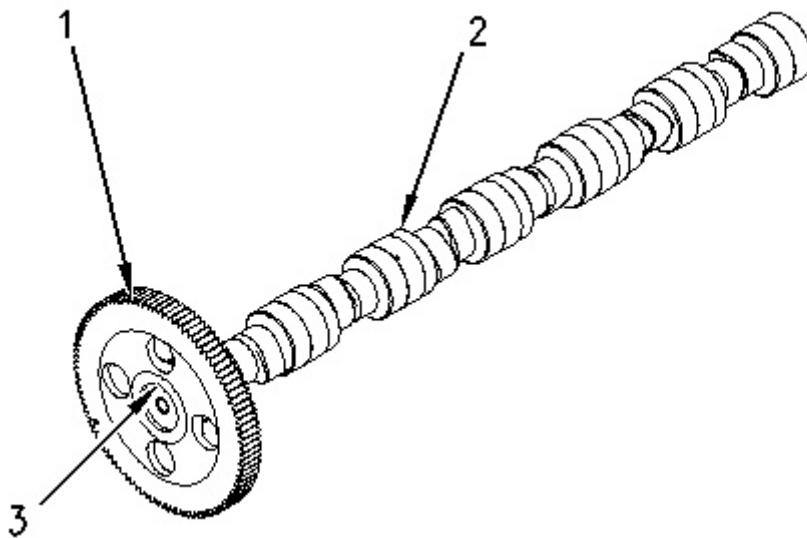


Illustration 2

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1. Raise the temperature of camshaft gear (1).
2. Align key (3) in the camshaft with the groove (keyway) in the camshaft gear.
3. Install camshaft gear (1) on the end of camshaft (2).

End By:

- a. Install the camshaft. Refer to Disassembly and Assembly, "Camshaft - Install".
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