



Service Repair Manual

Models

120H Motor Grader

Product: MOTOR GRADER

Model: 120H MOTOR GRADER 5FM

Configuration: 120H Motor Grader 5FM00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly

446 and 446B Backhoe Loaders, Lexion 450 Combine, 3114 and 3116 Engines, IT18F Integrated Toolcarrier, D6M Track-Type Tractor and 928F, 950F and 950G Wheel Loaders

Media Number -SEN3611-18

Publication Date -01/05/2009

Date Updated -27/05/2009

i01930426

Camshaft - Remove

SMCS - 1210-011

Removal Procedure

Start By:

- a. Remove the governor. Refer to Disassembly and Assembly, "Governor - Remove".
- b. Remove the side covers. Refer to Disassembly and Assembly, "Lifter Group - Remove and Install".
- c. 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.

Note: For information on reusability of the camshaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8097, "Camshaft Measurement", Guideline For Reusable Parts And Salvage Operations, SEBF8146, "Visual Inspection of Camshafts", and Guideline For Reusable Parts And Salvage Operations, SEBF8251, "Specifications for Measurement of Camshafts in 3114/3116 Engines". For information on reusability of the camshaft gear, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8045, "Timing Gears for All Engines".

Note: The air compressor was removed in order to accommodate the engine repair stand.

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

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.



Illustration 1

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Typical example

2. Ensure that timing mark (1) on the camshaft gear is aligned with timing mark (2) on the idler gear.
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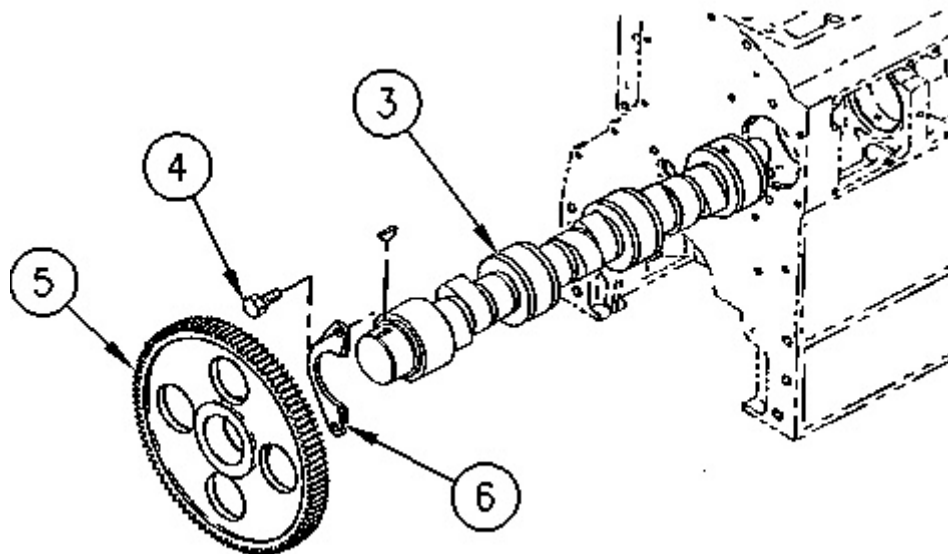


Illustration 2

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3. Remove bolts (4) and camshaft retainer plate (6).
4. Remove camshaft gear (5) and camshaft (3) from the cylinder block.

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Camshaft - Install

SMCS - 1210-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: For information on reusability of the camshaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8097, "Camshaft Measurement", Guideline For Reusable Parts And Salvage Operations, SEBF8146, "Visual Inspection of Camshafts", and Guideline For Reusable Parts And Salvage Operations, SEBF8251, "Specifications for Measurement of Camshafts in 3114/3116 Engines". For information on reusability of the camshaft gear, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8045, "Timing Gears for All Engines".

1. Lubricate the camshaft and the camshaft bearings with clean engine oil.
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