Media Number -SENR5598-09

Model: D7G TRACK-TYPE TRACTOR 65V

Configuration: D7G TRACK-TYPE TRACTOR / POWER SHIFT / 65V03401-UP (MACHINE) POWERED BY 3306 ENGINE

Publication Date -01/01/2013

Disassembly and Assembly

3304B and 3306B Engines for Caterpillar Built Machines

Date Updated -25/01/2013

i00976704

Pistons and Connecting Rods - Install

SMCS - 1225-012

Installation Procedure

Table 1

Required Tools				
Tool	Part Number	Part Description	Qty	
A	5P-3525	Piston Ring Compressor	1	

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Rotate the crankshaft until the bearing journals are at the bottom center. The bearing journals that are at the bottom center are for the piston installation.

- 2. Put clean engine oil on the crankshaft journals and on the inside of the cylinder liners. Put clean engine oil on the piston rings and the connecting rod bearings.
- 3. Move the piston rings on the pistons until the ring openings are separated by approximately 120 degrees.



Illustration 1 g00483337

4. Put the piston in the cylinder liner with the "V" mark on the piston in alignment with the "V" mark on the cylinder block. Put tool (A) in position on the cylinder block and compress the piston rings.

NOTICE

The "V" mark must be visible on the piston and the cylinder block. If the "V" mark is not visible, the piston must be installed with the relief for the valve positioned toward the pushrod opening in the cylinder block. Damage may result if the pistons are not installed properly.

5. Push the piston into the cylinder liner and out of the ring compressor.

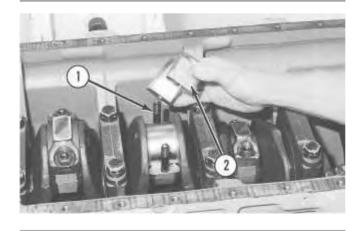


Illustration 2 g00483701

- 6. Guide connecting rod (1) into position on the crankshaft.
- 7. Put clean engine oil (SAE 30) on the lower half of the connecting rod bearing and on the connecting rod bolts.

NOTICE

When the connecting rod caps are installed, ensure that the identification marks are aligned.

- 8. Install connecting rod cap (2) and the nuts that secure the connecting rod cap. Torque both of the nuts to $40 \pm 4 \text{ N} \cdot \text{m}$ (30 \pm 3 lb ft). Mark the position of the nuts. Tighten each nut for an additional 90 degrees (1/4 turn).
- 9. Repeat Steps 1 through 8 for the remainder of the piston and connecting rods.

End By:

- a. Install the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump Install".
- b. Install the engine oil pan plate. Refer to Disassembly and Assembly, "Engine Oil Pan Plate Remove and Install".
- c. Install the spacer plate. Refer to Disassembly and Assembly, "Spacer Plate Remove and install".

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3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SENR5598-09

Publication Date -01/01/2013

Date Updated -25/01/2013

i00987487

Connecting Rod Bearings - Remove

SMCS - 1219-011

Removal Procedure

Start By:

- A. Remove the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump -Remove".
- B. Remove the oil pan plate. Refer to Disassembly and Assembly, "Engine Oil Pan Plate -Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

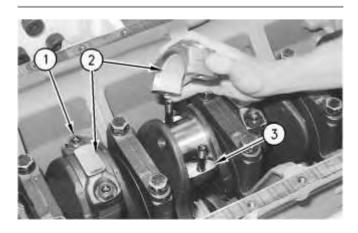


Illustration 1	g00487412

1. Turn the crankshaft until two of the pistons are at the bottom center. Remove connecting rod nuts (1) from the connecting rod. Remove connecting rod cap (2) for each connecting rod.

Note: The connecting rod bolts can fall out of the connecting rods when the connecting rod nuts are removed.

- 2. Remove the lower half of the connecting rod bearing from connecting rod cap (2).
- 3. Carefully push the connecting rod into the cylinder liner for bearing removal. Remove the upper half of the connecting rod bearing from the connecting rod.
- 4. Repeat Steps 1 through 3 for the remaining connecting rod bearings.

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Disassembly and Assembly

3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SENR5598-09 Publication Date -01/01/2013

Date Updated -25/01/2013

i00987670

Connecting Rod Bearings - Install

SMCS - 1219-012

Installation Procedure

Table 1

Tool	Part Number	Part Description	Qty
A	-	Plastigage	-

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Install the connecting rod bearings dry when the clearance checks are made. Put clean engine oil on the connecting rod bearings for final assembly.

- 1. Install the upper half of the connecting rod bearing in the connecting rod.
- 2. Install the lower half of the connecting rod bearing in the connecting rod.

Note: Align the tabs on the back of the connecting rod bearings with the tab grooves in the connecting rod.



Illustration 1 g00487493

- 3. In order to check the connecting rod bearing clearance, put Tool (A) on the connecting rod bearing, as shown.
- 4. Put clean engine oil (SAE 30) on the connecting rod bolts.

NOTICE

When the connecting rod caps are installed, ensure that the identification marks are aligned.

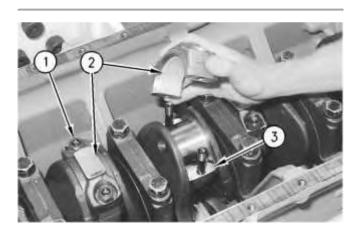


Illustration 2 g00487412

Note: Do not turn the crankshaft when Tool (A) is positioned.

5. Ensure that connecting rod (3) is in position on the crankshaft. Install connecting rod cap (2) and connecting rod nuts (1) on connecting rod (3).

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