



Service Repair Manual

Model

235 EXCAVATOR

Product: EXCAVATOR

Model: 235 EXCAVATOR 64R

Configuration: 235 EXCAVATOR 64R01258-UP (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

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Pistons and Connecting Rods - Disassemble

SMCS - 1225-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	7S-9470	Piston Ring Expander	1
B	5P-8639	Press Group	1
	5P-8645	Adapter	1
	6V-3029	Spacer	1
	6V-2049	Adapter	1
	1U-5230	Hand Hydraulic Pump	1
	8F-0024	Hose	1
	1P-2375	Connecting Coupler	1
	1P-2376	Connecting Coupler	1

Start By:

- A. Remove the pistons and connecting rods. Refer to Disassembly and Assembly, "Pistons and Connecting Rods - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



Illustration 1

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1. Remove the piston rings from the pistons with Tool (A) .

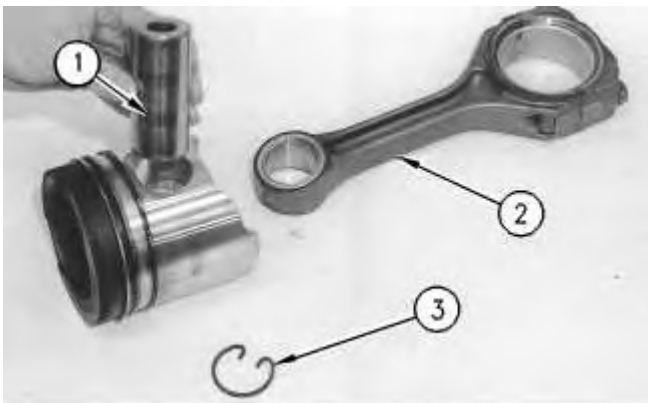


Illustration 2

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2. Remove retaining ring (3), piston pin (1) and connecting rod (2) .
 3. Remove the connecting rod bearing.
 4. Heat the connecting rod in an oven to a temperature of 176 to 260 °C (350 to 500 °F). Do not use a direct flame to heat a connecting rod.
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Pistons and Connecting Rods - Assemble

SMCS - 1225-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	7S-9470	Piston Ring Expander	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Clean the grooves of the used pistons with an acceptable tool or **1U-8811** Cleaner .
 2. Install the connecting rod bearings. Ensure that the tabs on the back side of the connecting rod bearings are in the tab grooves of the connecting rod and the connecting rod cap.
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