



Service Repair Manual

Models

CS-583C Vibratory Compactor

Product: VIBRATORY COMPACTOR

Model: CS-583C VIBRATORY COMPACTOR 7NN

Configuration: CS-583C Vibratory Compactor 7NN00001-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

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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	1U-6683	Ring Expander	1
B	1P-1861	Retaining Ring Pliers	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Verify correct assembly of the pistons and the connecting rods. Ensure that the etched numbers on the rod and the rod cap are in the correct positions. The etched number on the rod and the rod cap correspond to the cylinder in which it should be installed.

Note: For information on reusability of the pistons, refer to the following list.

- Guideline For Reusable Parts And Salvage Operations, SEBF8049, "Pistons"
- Guideline For Reusable Parts And Salvage Operations, SEBF8228, "Procedure to Clean and Inspect One and Two-Piece Pistons in 3114/3116 Engines"
- Guideline For Reusable Parts And Salvage Operations, SEBF8290, "Visual Inspection of Two-Piece Pistons"
- Tool Operating Manual, NEHS0775, "Using the 186-0137 Pston Ring Gauge on Steel Crown, Two-Piece Pistons used in 3126 Engines"

Note: For information on reusability of the connecting rods, refer to the following list.

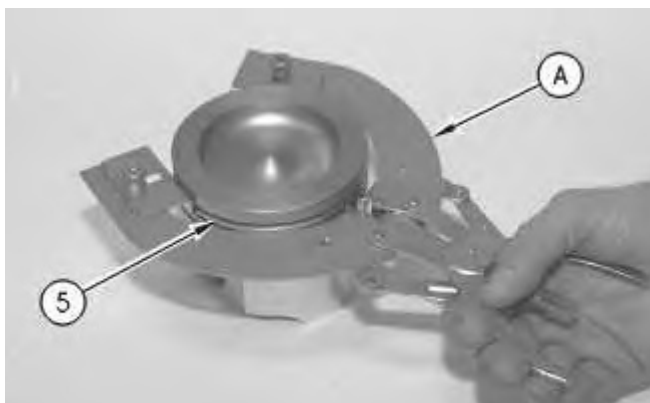
- Guideline For Reusable Parts And Salvage Operations, SEBF8206, "Specifications for Connecting Rods on 3116 Engines"
- Guideline For Reusable Parts And Salvage Operations, SEBF8063, "Visual Inspection of Connecting Rods"
- Guideline For Reusable Parts And Salvage Operations, SEBF8064, "Salvage of Non-Serrated Connecting Rods"

Note: For information on reusability of the piston pins, refer to the following list.

- Guideline For Reusable Parts And Salvage Operations, SEBF8051, "Piston Pins and Retaining Rings"
- Guideline For Reusable Parts And Salvage Operations, SEBF8303, "Procedure to Inspect Piston Pins"

Note: For information on reusability of the rod eye bushing, refer to the following list.

- Guideline For Reusable Parts And Salvage Operations, SEBF8242, "Verification of Connecting Rod Eye Bushing Retention Using 5P-8639 Connecting Rod Bushing Press Group"
- Guideline For Reusable Parts And Salvage Operations, SEBF8274, "Using Rod Eye Bushing Installation and Removal Tools"



1. Check the clearance between the ends of piston rings (5). Refer to the Specifications Manual, "Pistons and Rings".

Note: The oil ring must be installed over the spring with the end gap 180 degrees from the oil ring spring joint.

2. Install the oil control piston ring with Tooling (A). The ends of the spring should be rotated 180 degrees from the ring end gap.
3. Install the intermediate piston ring with the side marked "UP-2" toward the top of the piston. Use Tooling (A) in order to install the ring.
4. Install the top piston ring with the side marked "UP-1" toward the top of the piston. Use Tooling (A) in order to install the ring.

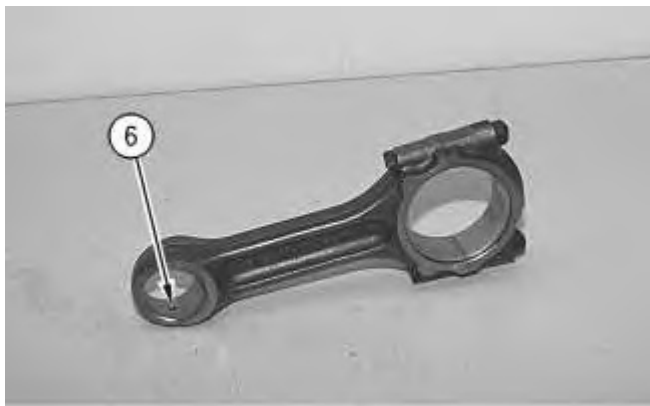


Illustration 2

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5. Replace rod bearing (6) by pressing a new bearing into the connecting rod. Refer to Special Instruction, SEHS7295 for the correct tooling and the correct installation procedure.
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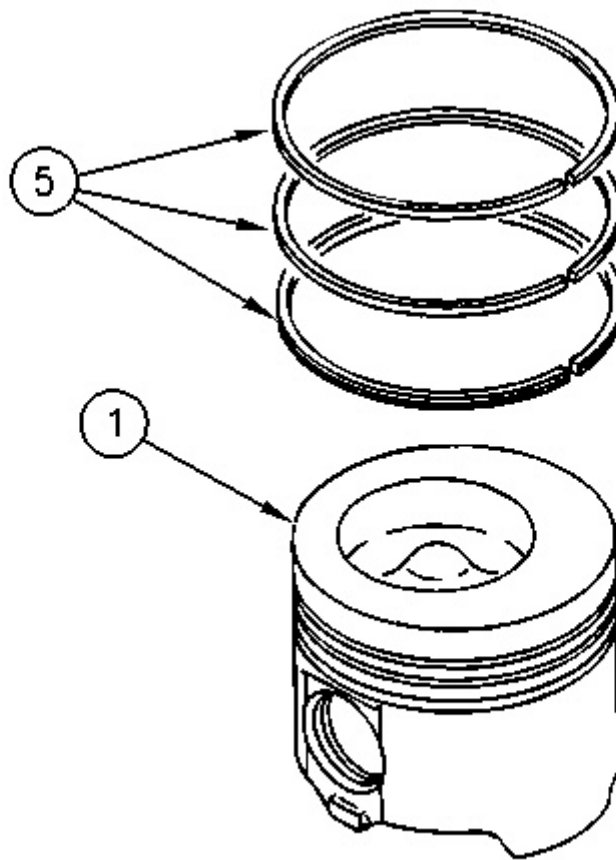


Illustration 3
One piece piston

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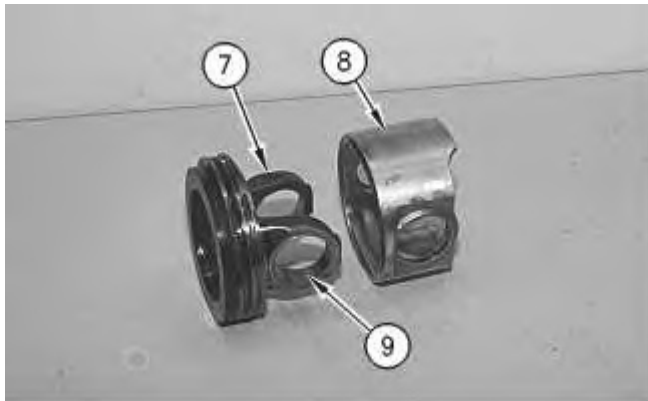


Illustration 4

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6. This piston is a two-piece assembly. This piston consists of piston crown (7) and piston skirt (8). Inspect bearing (9) in the piston crown (7). The piston crown must be replaced if the piston crown is worn or damaged. Bearing (9) is nonserviceable.

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