



Service Repair Manual

Models

CS-583E and CP-583E
Vibratory Compactor

Product: VIBRATORY COMPACTOR

Model: CS-583E VIBRATORY COMPACTOR CNX

Configuration: CS-583E CP-583E Vibratory Compactor CNX00001-UP (MACHINE) POWERED BY 3056E Engine

Disassembly and Assembly 3056E Engine for Caterpillar Built Machines

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i01548436

Piston Cooling Jets - Remove and Install

SMCS - 1331-010

Removal Procedure

Start By:

- a. Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".

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

Dispose of all fluids according to local regulations and mandates.

Note: The naturally aspirated 3054 marine engine has one piston cooling jet that is located inside the number one cylinder. The naturally aspirated 3056 marine engine is not equipped with piston cooling jets.

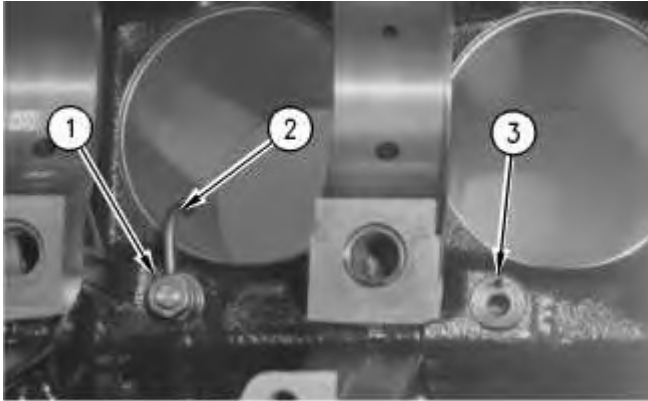


Illustration 1

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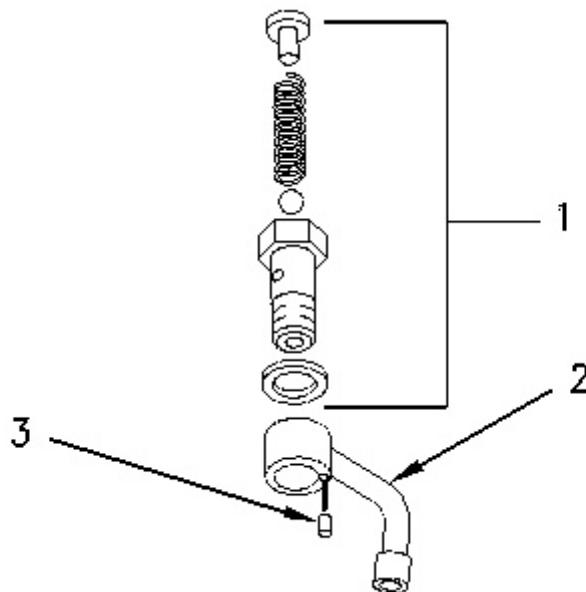


Illustration 2

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1. Remove valve assembly (1) from piston cooling jet (2).
2. Remove piston cooling jet (2) from the cylinder block.

Note: The engine crankshaft may be rotated in order to access all of the piston cooling jets.

Note: Ensure that the ball moves freely within the valve assembly of the piston cooling jet. Check that the tube of the piston cooling jet is not damaged.

3. Remove hollow dowel (3) from the cylinder block.

Note: Hollow dowel (3) is used to locate the piston cooling jet.

4. Repeat Steps 1 through 3 for the removal of the remaining piston cooling jets.

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

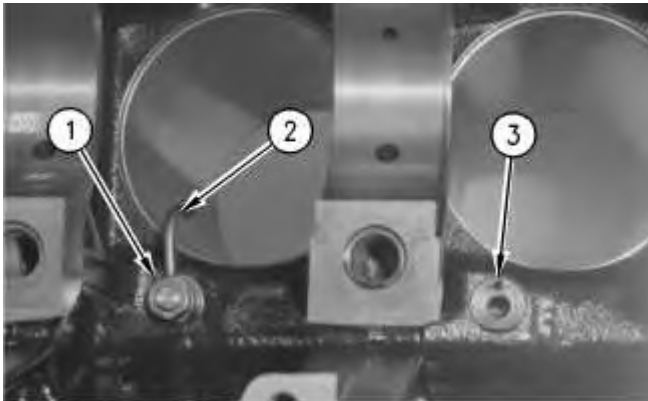


Illustration 3

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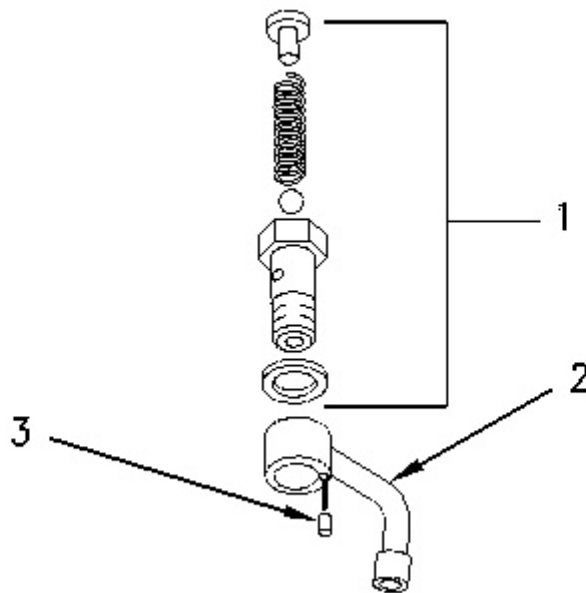


Illustration 4

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1. Install piston cooling jet (2) to the cylinder block.

Note: Ensure that piston cooling jet (2) is properly located on hollow dowel (3). Refer to the Specifications Manual, "Piston Cooling Jet" for the correct procedure for the alignment of the piston cooling jet.

2. Install valve assembly (1) into the piston cooling jet (2). Tighten the banjo bolt of the valve assembly (1) to a torque of 20 N·m (15 lb ft).
3. Repeat Steps 1 through 2 for the installation of the remaining piston cooling jets.

End By:

- a. Install the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".

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