



Service Repair Manual

Models

120G MOTOR GRADER

Product: MOTOR GRADER
Model: 120G MOTOR GRADER 87V
Configuration: 120G MOTOR GRADER 87V00001-01137 (MACHINE)

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

i01138110

Rocker Shaft - Assemble

SMCS - 1102-016

Assembly Procedure

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 Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

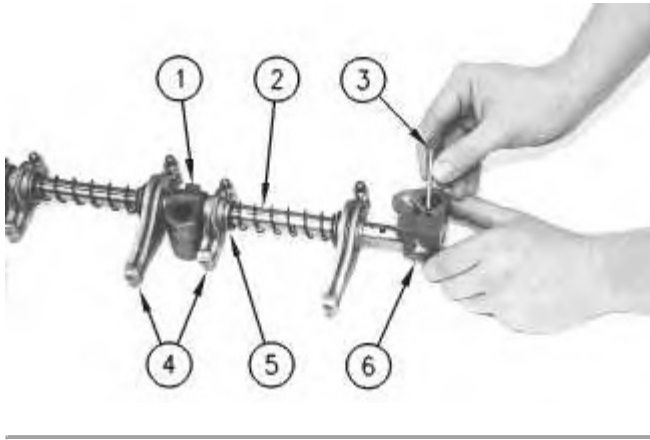


Illustration 1

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1. Install rocker arms (4), supports (1), washer (5) and springs (2) on the rocker shaft.
2. Install rear rocker shaft support (6) on the rocker shaft. Ensure that the hole in the rear rocker shaft support is aligned with the hole in the rocker shaft.
3. Install pin (3) through the rocker shaft support and the rocker shaft with a hammer.
4. Pin (3) must extend 9.60 mm (.378 inch) above the rocker shaft support.

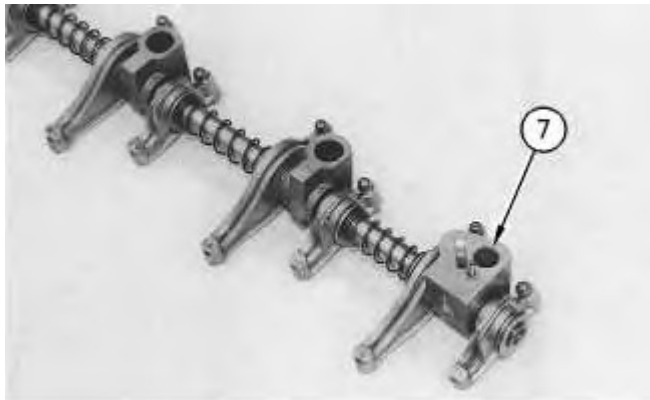
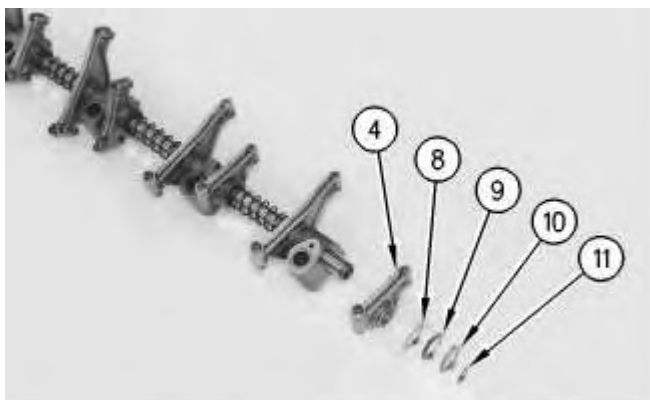


Illustration 2

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5. Install O-ring seal (7). Install rocker arm (4), washer (8), springs (9), washer (10) and retainer ring (11) .

Note: Make sure that the correct number of washers (8) are installed on the shaft.

6. Install the plugs in each end of the rocker shaft if the plugs were removed.

End By: Install the rocker shaft and pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrods - Install".

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i07085956

Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

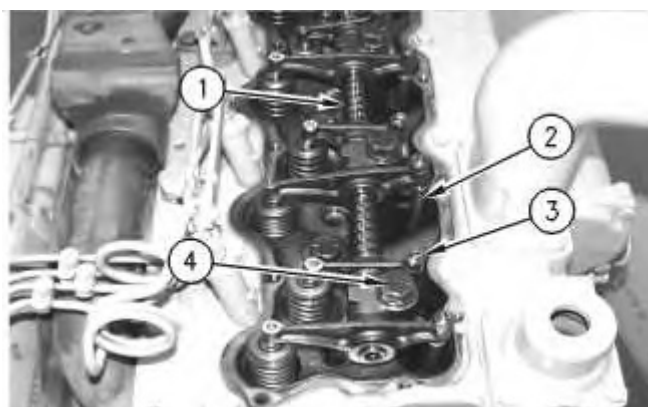


Illustration 1

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1. Loosen adjusting screws (3). This will prevent a bent valve or a bent pushrod during the installation of the rocker shaft assembly. Install pushrods (2) and ensure that the pushrods are seated in the valve lifters.

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