

Product: TRACK-TYPE TRACTOR

Model: D7H TRACK-TYPE TRACTOR 2RG

Configuration: D7H & D7H LGP SERIES II TRACTOR / POWERSHIFT / 2RG05500-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

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.

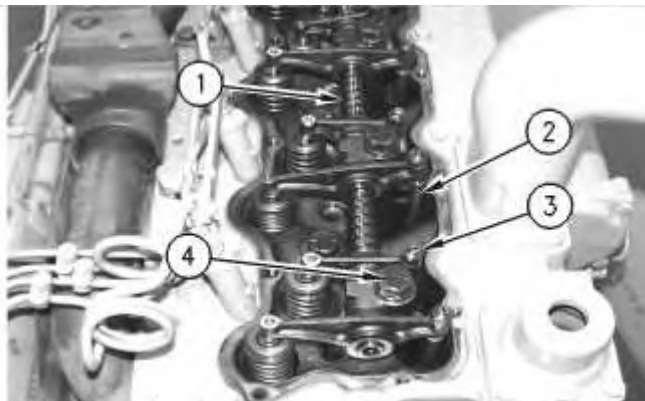


Illustration 1

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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.

2. Install rocker shaft assembly (1) in position on the cylinder head.

NOTICE

Ensure that the dowels on each end of the rocker shaft assembly are in alignment with the holes in the cylinder head.

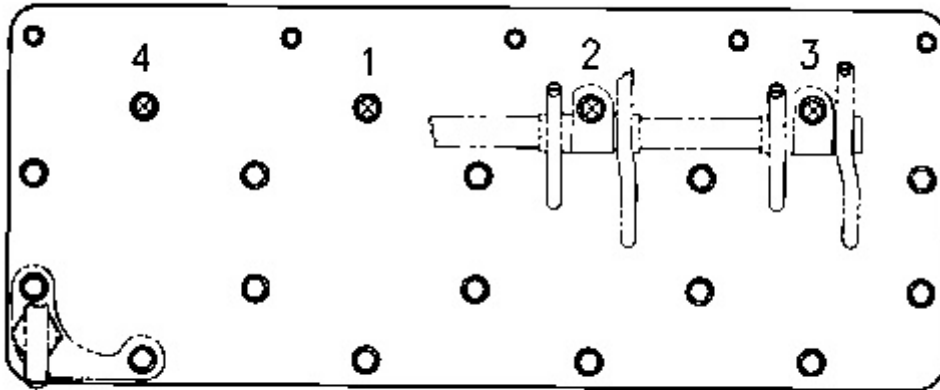


Illustration 2
3304B torque sequence

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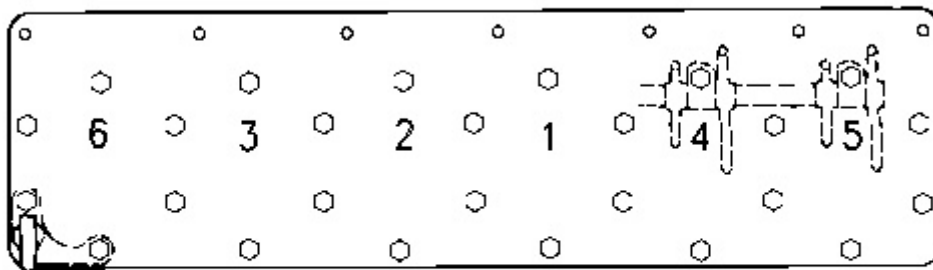


Illustration 3
3306B torque sequence

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Note: Replace the O-ring seal when the bolt toward the rear of the engine is installed in the rocker shaft support.

3. Apply **6V-4876** Lubricant on the threads of six bolts (4) except for the bolt that passes through the rear rocker shaft support (bolt (6) in Illustration 3). Install six bolts (4) in the rocker shaft assembly.
4. Refer to Illustration 3. Tighten six bolts (4) for the rocker shaft, as follows:
 - a. Tighten all the bolts in the numerical sequence to a torque of 155 N·m (115 lb ft).
 - b. Tighten all the bolts in the numerical sequence to a torque of 250 ± 17 N·m (185 ± 13 lb ft).
 - c. Tighten all the bolts again in the numerical sequence to a final torque of 250 ± 17 N·m (185 ± 13 lb ft).
5. The assembled length of the springs at both ends of the rocker shaft must be 1.50 ± 0.25 mm ($.059 \pm .010$ inch). Remove the washers or install the washers behind the springs to change the assembled length of the springs.
6. Adjust the inlet valve lash to 0.38 ± 0.08 mm ($.015 \pm .003$ inch) and adjust the exhaust valve lash to 0.64 ± 0.08 mm ($.025 \pm .003$ inch). Refer to Testing and Adjusting, "Air Inlet and Exhaust System" for more information on setting the valve lash. Tighten the locknuts for the adjusting screws (3) to a torque of 29 ± 7 N·m (21 ± 5 lb ft). Refer to Specifications, "Valve Rocker Arms and Lifters".

End By:

- a. Install the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install".

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i00991114

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Start By:

- A. Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".
- B. Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".
- C. Remove the rocker shaft and pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrods - Remove".

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 machine. 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 in Caterpillar machines.

Dispose of all fluids according to local regulations and mandates.

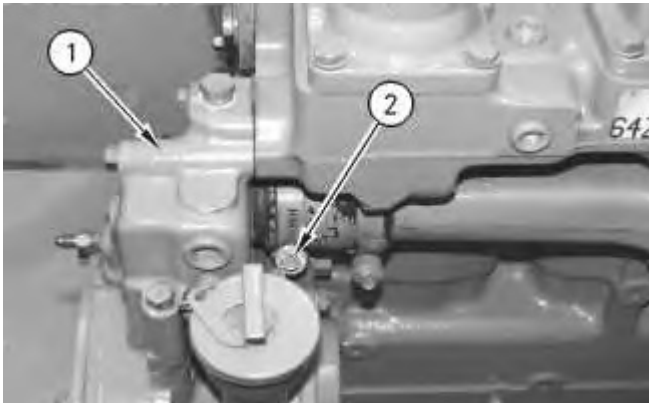


Illustration 1

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1. Loosen hose clamp (2) on the hose that connects the oil cooler to water pump elbow (1) .

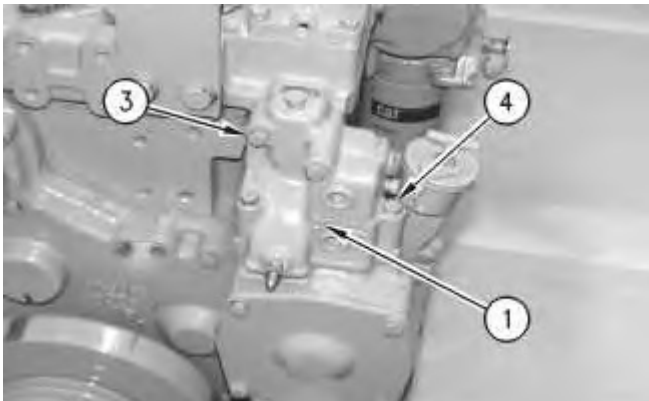


Illustration 2

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2. Remove two bolts (3) that fasten water pump elbow (1) to the cylinder head. Remove two bolts (4) that fasten water pump elbow (1) to the water pump.
 3. Carefully remove water pump elbow (1) and the gaskets from the engine.
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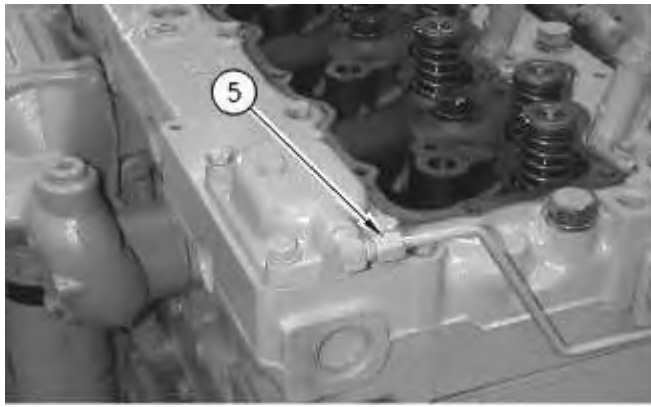


Illustration 3

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4. Disconnect tube (5) from the inlet manifold.

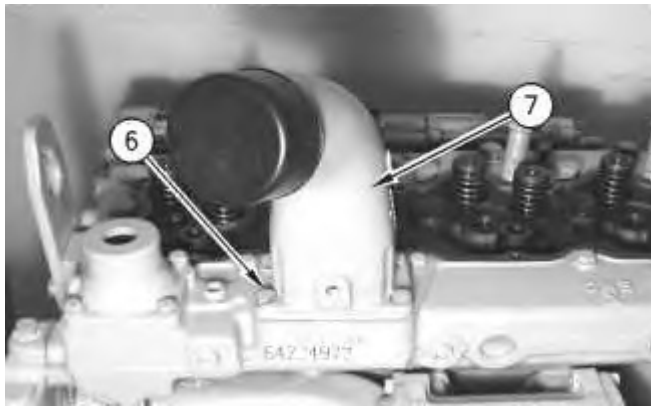


Illustration 4

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5. Remove four bolts (6) and remove air inlet pipe (7) .

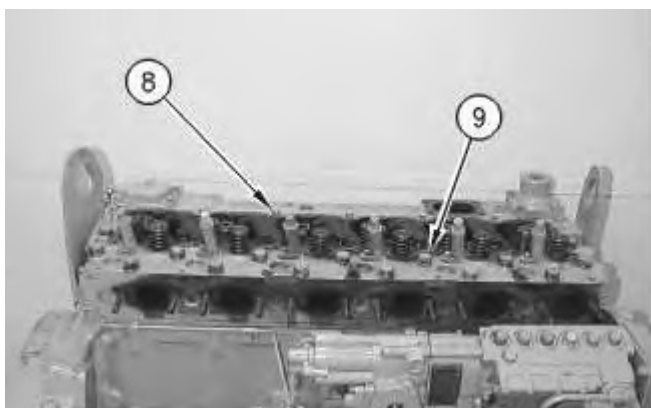


Illustration 5

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NOTICE

Do not set the cylinder head on a hard, flat surface. Damage may occur to the fuel injection nozzle tips.

6. Remove all bolts (8) and (9) that hold the cylinder head to the cylinder block.

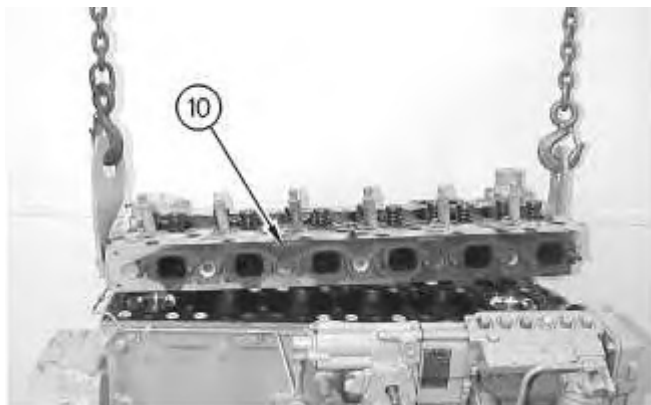


Illustration 6

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7. Attach the proper lifting device in order to remove cylinder head (10) from the engine. Remove cylinder head (10) from the engine. The weight of cylinder head (10) is approximately 95 kg (210 lb).

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