



Service Repair Manual

Models

249D Compact Track Loader

Product: COMPACT TRACK LOADER

Model: 249D COMPACT TRACK LOADER GWR

Configuration: 249D Compact Track Loader GWR00001-UP (MACHINE) POWERED BY C2.2 Engine

Disassembly and Assembly C2.2 Engines for Caterpillar Built Machines

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Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	228-3610	Feeler Gauge	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Ensure that all components are clean and free from wear or damage. Refer to Specifications, "Rocker Shaft" for more information. Replace any components that are worn or damaged.
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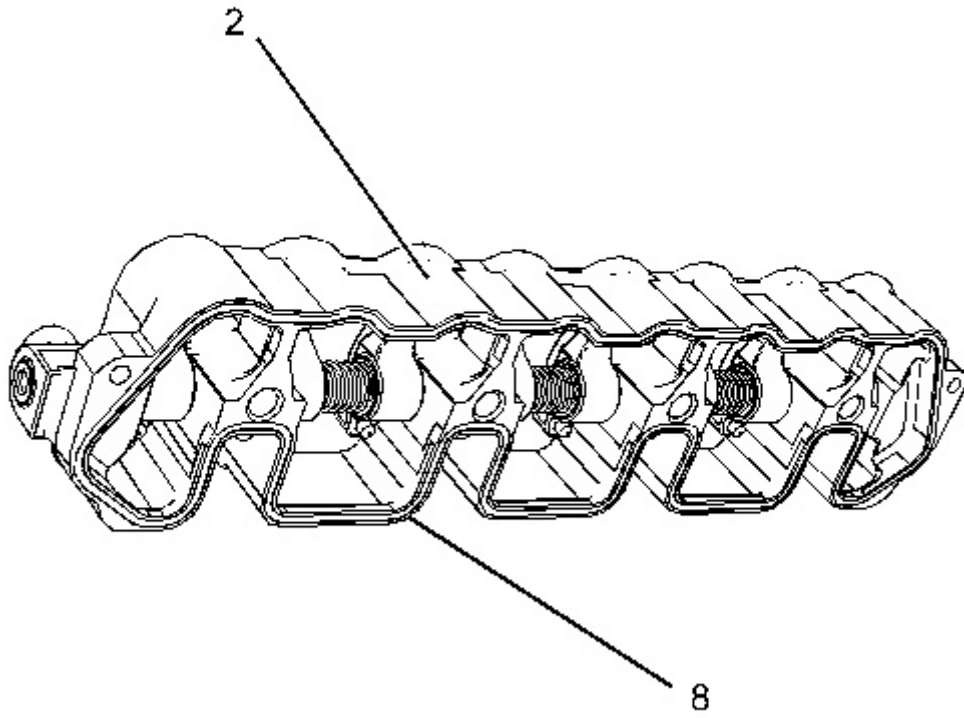


Illustration 1

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2. Install a new seal (8) to rocker shaft assembly (2). Ensure that the seal is correctly installed into the recess of the rocker shaft assembly.
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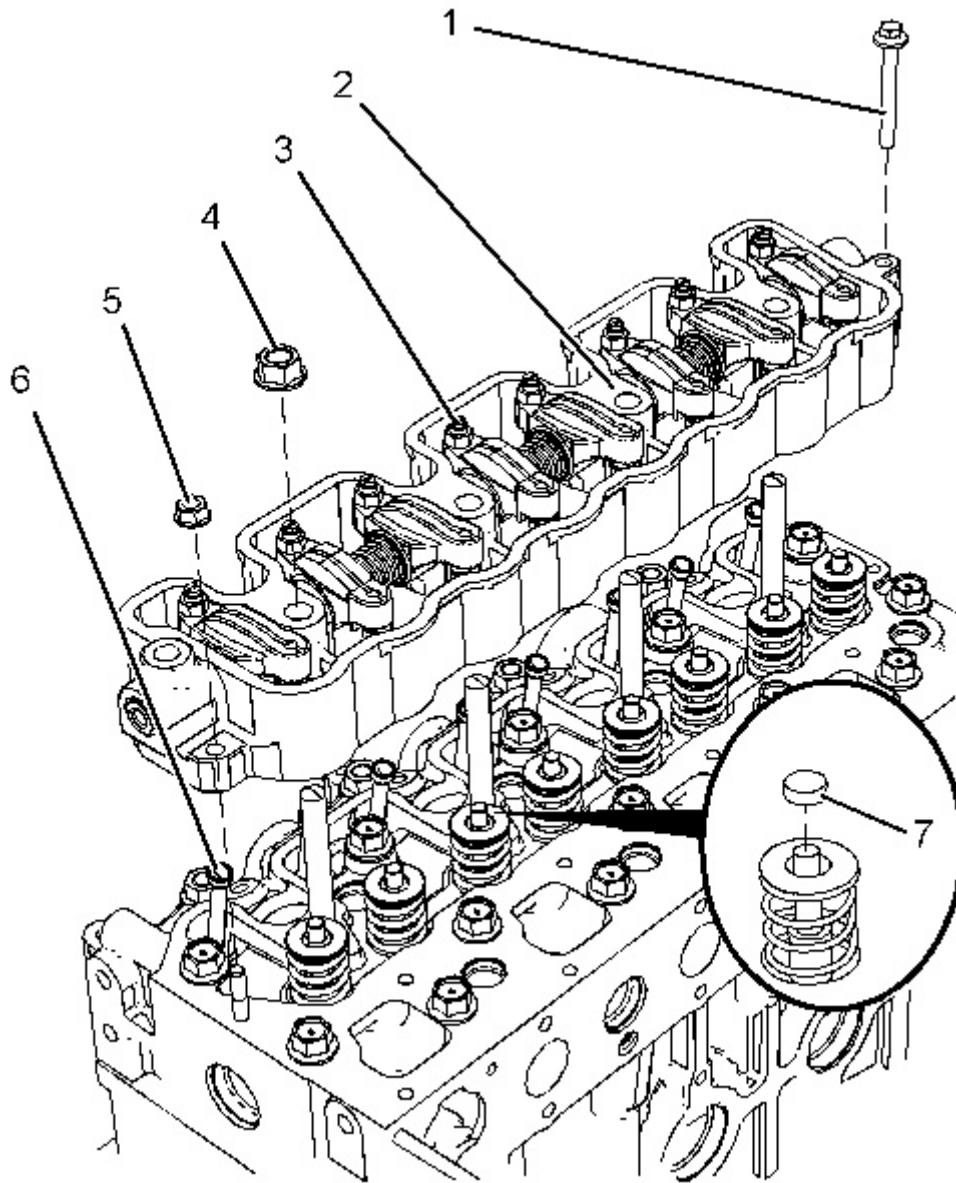


Illustration 2

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3. Apply clean lubricating oil to both ends of pushrods (6). Install the pushrods to the engine with the cup upward. Ensure that the pushrods are installed correctly in the socket of the valve lifters.

Note: If the pushrods have been used, ensure that the pushrods are installed in original positions.

4. Lubricate the top of the valve stems with clean engine oil. Install caps (7) to the valve stems.

Note: If the caps have been used, ensure that the caps are installed in original positions.

5. Install rocker shaft assembly (2) to the cylinder head.

Note: Ensure that the ends of adjustment screws (3) are correctly seated in ends of pushrods (6).

6. Install nuts (4) finger tight.
7. Use a deep socket to tighten nuts (4) evenly hand tight. Starting at the center of the rocker shaft and work outward.
8. Install bolt (1) and nut (5) hand tight.
9. Tighten nuts (4) to a torque of 33 N·m (292 lb in).
10. Tighten bolt (1) and nut (2) to a torque of 10 N·m (89 lb in).
11. Adjust the valve lash. Refer to Systems Operation, Testing and Adjusting, "Engine Valve Lash - Inspect/Adjust" for the correct procedure.

Note: Tooling (A) will be required when checking or adjusting the valve lash.

End By:

- a. Install the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install" for the correct procedure.
- b. Install the engine oil line. Refer to Disassembly and Assembly, "Engine Oil Line- Remove and Install" for the correct procedure.
- c. Install the fuel injectors. Refer to Disassembly and Assembly, "Fuel Injector - Remove and Install" for the correct procedure.
- d. Install the turbocharger oil feed pipe. Refer to Disassembly and Assembly, "Turbocharger - Install" for the correct procedure.

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