



Service Repair Manual

Models

444E Backhoe Loader

Product: BACKHOE LOADER

Model: 444E BACKHOE LOADER HXB

Configuration: 444E Backhoe Loader HXB00001-UP (MACHINE) POWERED BY C4.4 (MECH) Engine

Disassembly and Assembly C4.4 (Mech) 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	227-4389	E10 Torx Socket	1
B	934-913	Rocker Assembly Tool	4

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Clean the pushrods. Inspect the pushrods for wear or damage. Replace any pushrods that are worn or damaged.
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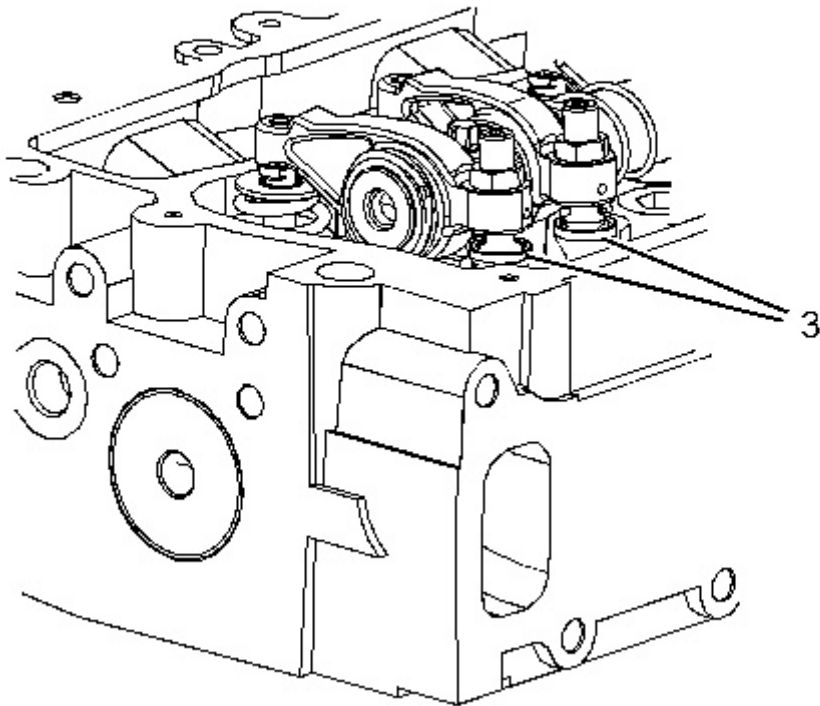


Illustration 1
Typical example

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2. Apply clean engine lubricating oil to both ends of pushrods (3). Install the pushrods to the engine with the cup upward.

Note: Ensure that the pushrods are installed in the original location and that the ball end of each pushrod is correctly seated in the valve lifters.

3. Ensure that the rocker shaft assembly is clean and free from wear or damage.
 4. If the rocker shaft assembly was disassembled, install Tooling (B) between each pair of rocker arms.
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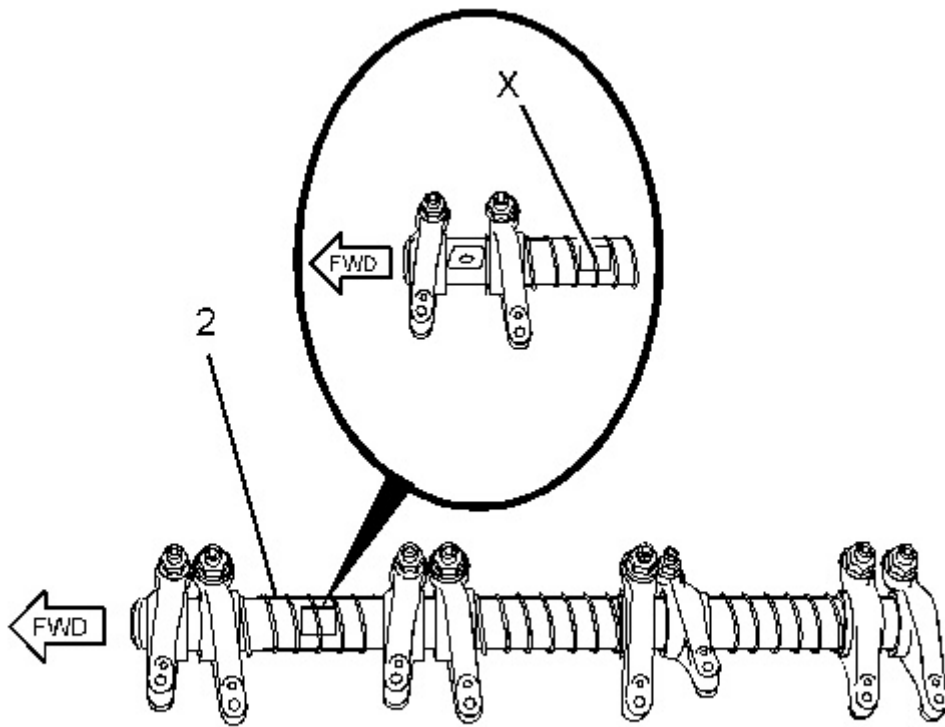


Illustration 2
Typical example

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5. Ensure that machined flat (X) is facing upward, and facing the front end of the engine.
 6. Position rocker shaft assembly (2) onto the cylinder head.
Note: Ensure that adjustment screws are properly seated in the ends of pushrods (3).
 7. Install torx screws (1) to the rocker shaft assembly finger tight.
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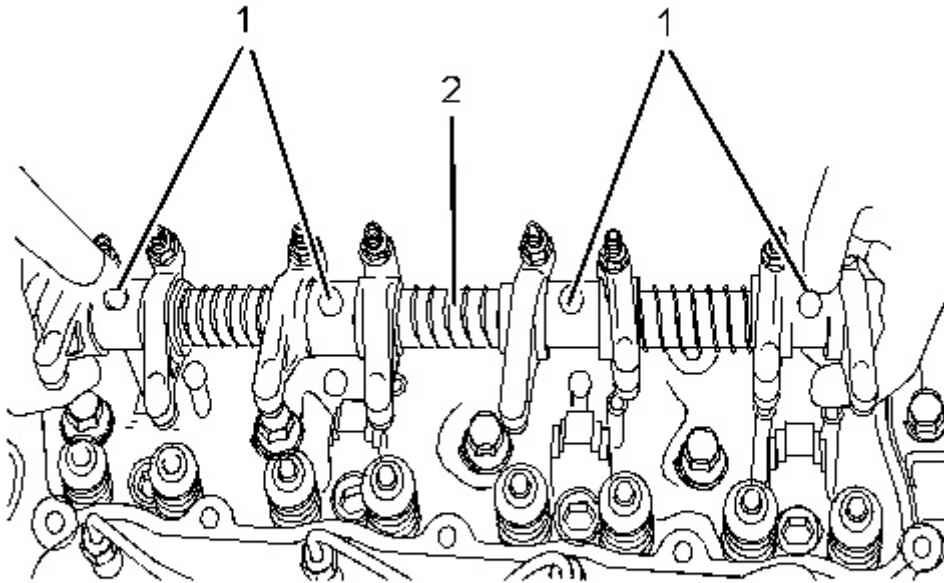


Illustration 3

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Typical example

8. Use Tooling (A) to progressively tighten torx screws (1). Begin at the center of the rocker shaft assembly and work toward the ends.

Note: To avoid distortion of the rocker shaft assembly, each torx screw should be tightened by a quarter of a turn at one time. Repeat the procedure until all torx screws are tightened.

Tighten torx screws (1) to a torque of 35 N·m (26 lb ft).

9. Check the valve lash. Refer to Systems Operation, Testing and Adjusting, "Engine Valve Lash - Inspect/Adjust". If necessary, adjust the valve lash. Refer to Systems Operation, Testing and Adjusting, "Engine Valve Lash - Inspect/Adjust" for the correct procedure.

End By:

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

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