

Product: EXCAVATOR  
Model: 206B EXCAVATOR 9BF  
Configuration: 206B EXCAVATOR WHEEL TYPE 9BF00001-UP (MACHINE)

## **Disassembly and Assembly 446 and 446B Backhoe Loaders, Lexion 450 Combine, 3114 and 3116 Engines, IT18F Integrated Toolcarrier, D6M Track-Type Tractor and 928F, 950F and 950G Wheel Loaders**

Media Number -SEN3611-18

Publication Date -01/05/2009

Date Updated -27/05/2009

i01930098

## **Rocker Shaft and Pushrod - Remove**

SMCS - 1102-011; 1208-011

### **Removal Procedure**

#### **Start By:**

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

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#### **NOTICE**

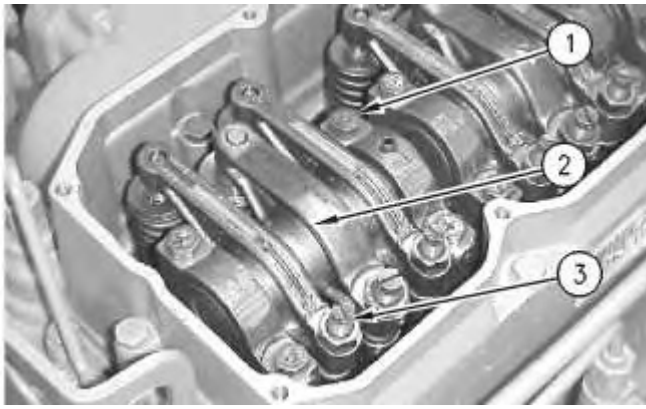
**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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**Note:** For information on reusability of components of the rocker shaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8267, "Rocker Arms and Rocker Arm Shafts for 3114 and 3116 Engines".

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Illustration 1

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1. Loosen all rocker arm adjustment screws (3).
  2. Remove bolts (1) from the rocker shaft assembly (2).
  3. Remove rocker shaft assembly (2) from the cylinder head.
  4. Repeat the procedure for each rocker shaft assembly.
  5. Remove the pushrods.
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i01930139

## Rocker Shaft - Disassemble

SMCS - 1102-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-0083	Emery Polishing Paper	1

### Start By:

- a. Remove the rocker shaft and the pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Remove".

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### NOTICE

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**Contaminants may cause rapid wear and shortened component life.**

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**Note:** For information on reusability of components of the rocker shaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8267, "Rocker Arms and Rocker Arm Shafts for 3114 and 3116 Engines".

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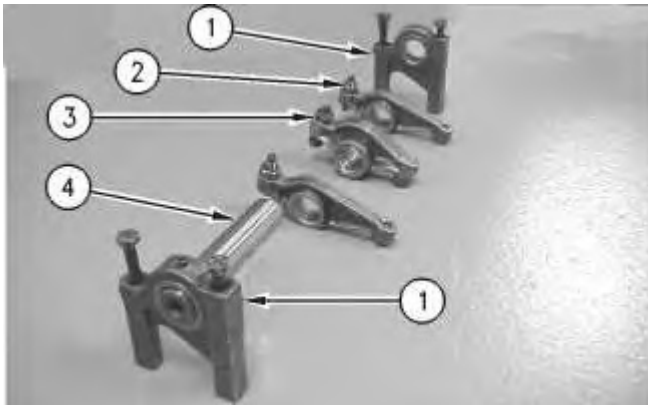


Illustration 1

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1. Remove support bracket (1) from rocker shaft assembly (4).
2. Remove valve rocker arms (2) and unit injector rocker arm (3) from rocker shaft assembly (4).

**Note:** Do not force the rocker arms from the rocker shaft assembly. If necessary, use a piece of Tooling (A) to lightly buff the surface of the shaft to aid in removal .

3. Check the adjustment screws on valve rocker arms (2) and unit injector rocker arm (3) for damage.
4. Inspect rocker shaft assembly (4) for scratches and cracks.

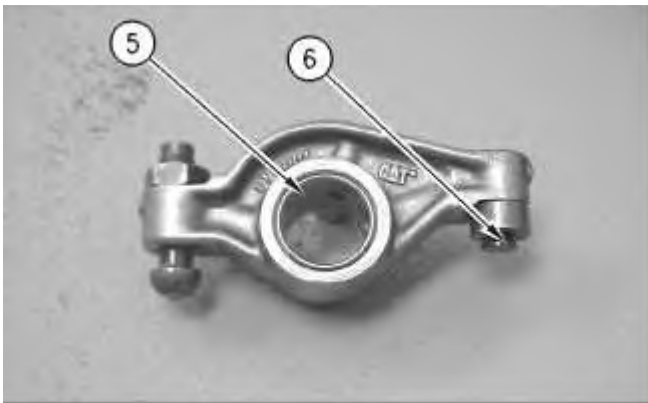


Illustration 2

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5. Inspect bearing (5) on unit injector rocker arm (3). The bore in the rocker arm is  $24.808 \pm 0.20$  mm ( $0.9767 \pm 0.0079$  inch). Refer to Specification, "Valve Rocker Arm and Lifters". Replace the bearing, if necessary.
6. Ensure that button (6) on unit injector rocker arm (3) is not damaged. Also ensure that the retaining ring for button (6) is in place.

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Media Number -SEN3611-18

Publication Date -01/05/2009

Date Updated -27/05/2009

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## **Rocker Shaft - Assemble**

SMCS - 1102-016

### **Assembly Procedure**

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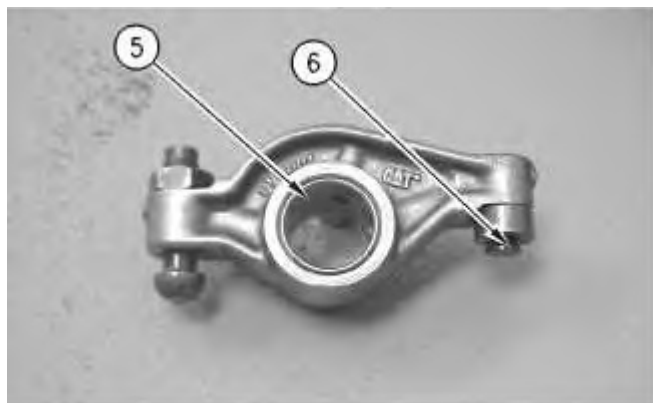
#### **NOTICE**

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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**Note:** For information on reusability of components of the rocker shaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8267, "Rocker Arms and Rocker Arm Shafts for 3114 and 3116 Engines".



1. Install button (6) and the retaining ring, if necessary.
2. Place clean engine oil on a new bearing (5) prior to installation.
3. Ensure that the oil hole in bearing (5) is aligned with the oil hole in the rocker arm. Hone the bearing, if necessary. Refer to the Specifications Module for the correct dimensions.

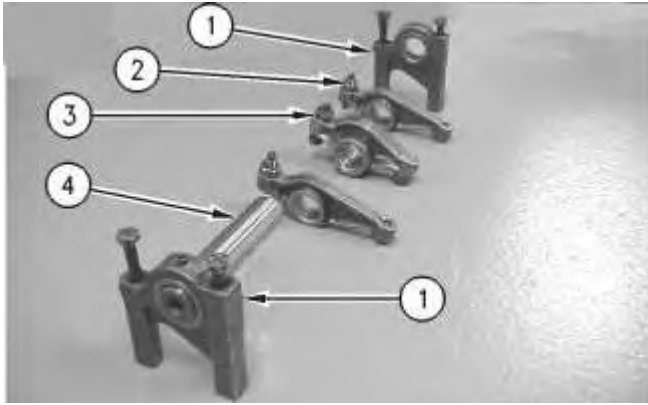


Illustration 2

4. Lubricate rocker shaft assembly (4) with clean engine oil.
5. Install valve rocker arms (2) and unit injector rocker arm (3) on rocker shaft assembly (4).
6. Install support bracket (1) on rocker shaft assembly (4).

**End By:**

- a. Install the rocker shaft and the pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Install".
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Publication Date -01/05/2009

Date Updated -27/05/2009

i02736495

## Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	146-2597	Pushrod Holder	1

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### NOTICE

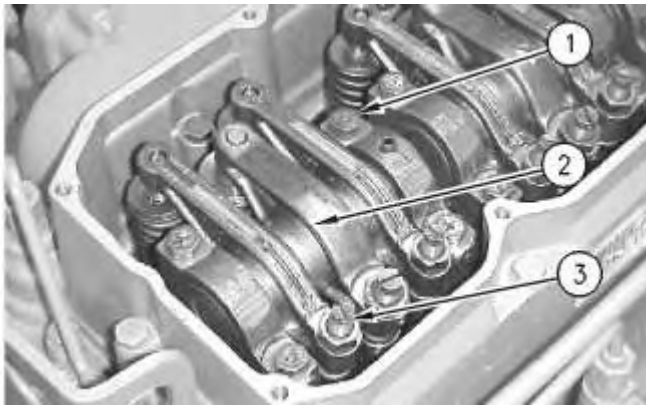
**Keep all parts clean from contaminants.**

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**Note:** For information on reusability of components of the rocker shaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8267, "Rocker Arms and Rocker Arm Shafts for 3114 and 3116 Engines".

1. Install the pushrods in the engine. The base of the pushrod should be in the seat of the pushrod lifter.
  2. Install Tooling (A).
-



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Illustration 1

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3. Position rocker shaft assembly (2) in the engine. Line up the pushrods with the rocker arms.
4. Install bolts (1) in rocker shaft assembly (2). Tighten the bolts to a torque of  $28 \pm 7$  N·m ( $21 \pm 5$  lb ft).
5. Remove Tooling (A) from the pushrods.
6. Adjust the valve lash on all of the adjustment screws. Refer to Testing and Adjusting, "Engine Valve Lash - Inspect/Adjust".
7. Repeat the procedure for the remaining rocker shaft assemblies.

**End By:**

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