



# Service Repair Manual

## **Models**

# CS-563D VIBRATORY COMPACTOR

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Product: VIBRATORY COMPACTOR

Model: CS-563D VIBRATORY COMPACTOR 1SZ

Configuration: CS-563D Compactor-Military 1SZ00001-UP (MACHINE) POWERED BY 3116 Engine

## 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

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

**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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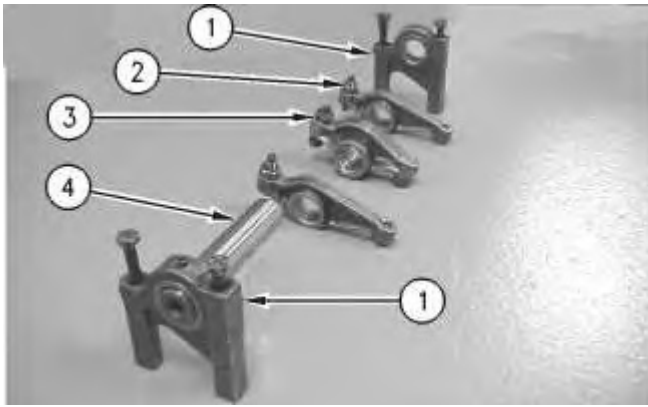


Illustration 1

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1. 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.

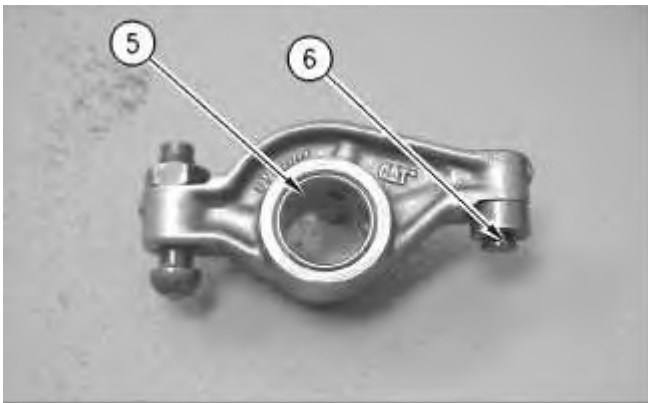


Illustration 2

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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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## Rocker Shaft - Assemble

SMCS - 1102-016

### Assembly Procedure

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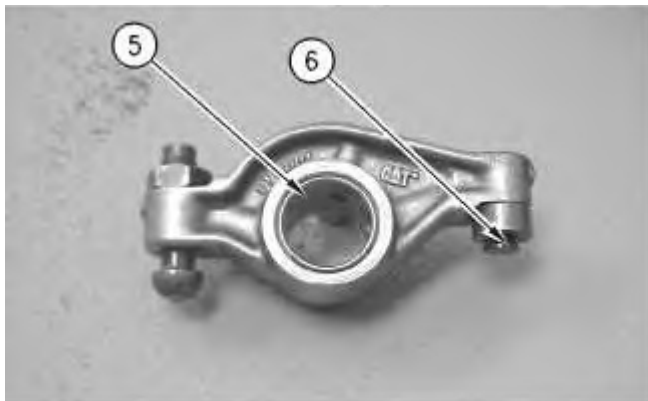
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**Note:** For information on reusability of components of the rocker shaft, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8267, "Rocker Arms and Rocker Arm Shafts for 3114 and 3116 Engines".



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.

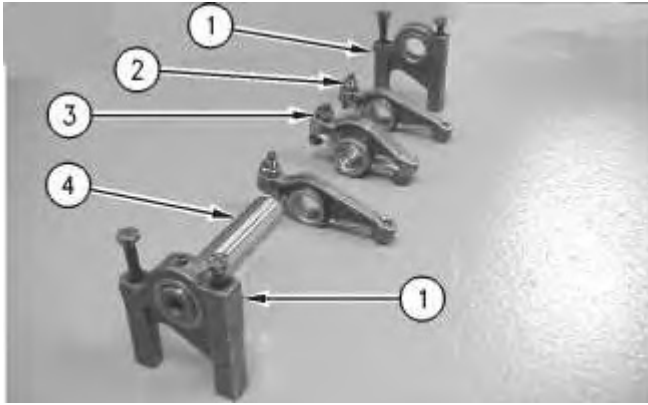


Illustration 2

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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