

Product: EXCAVATOR

Model: 317B L EXCAVATOR 9WW

Configuration: 317B L & 317B LN Excavators 9WW00001-UP (MACHINE) POWERED BY 3046 Engine

## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

Media Number -SEN6458-05

Publication Date -01/04/2004

Date Updated -22/04/2004

i01030044

# 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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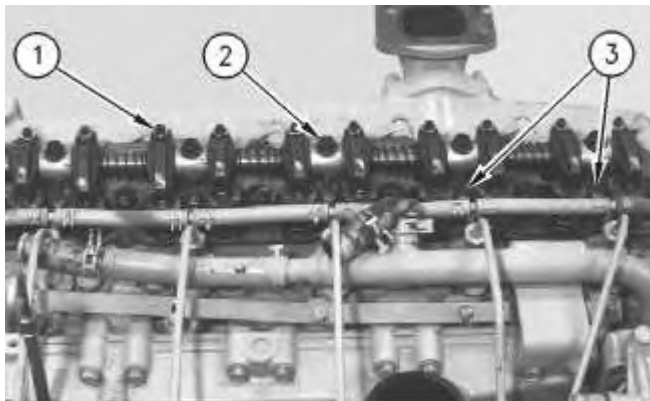


Illustration 1

g00530465

1. Loosen adjusting screws (1) on rocker arms.
2. Loosen six short bolts (3) and the washers on the rocker arm brackets.
3. Loosen six rocker bracket bolts (2) .

**Note:** Rocker bracket bolts are the longer bolts.

4. Remove six rocker bracket bolts (2) from the rocker arm brackets.
5. Remove six short bolts (3) and the washers from the rocker arm brackets.
6. Remove the rocker shaft assembly.

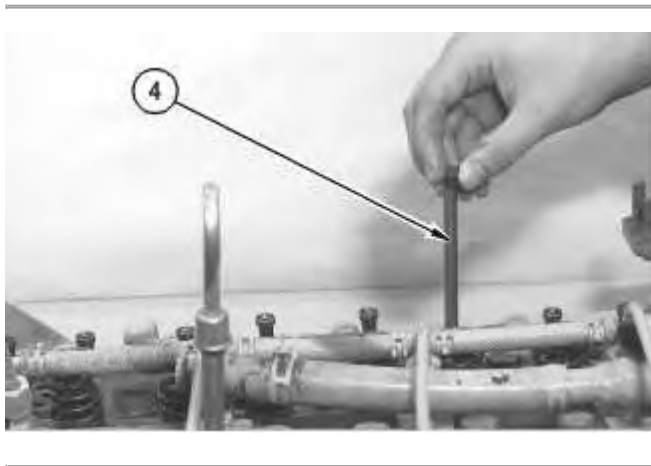


Illustration 2

g00530467

7. Put identification marks on pushrods (4) in order to identify the location of the pushrods in the engine. Remove pushrods (4) .

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## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

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Publication Date -01/04/2004

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i02063400

## Rocker Shaft - Disassemble

SMCS - 1123-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1855	Retaining Ring Pliers	1

### Start By:

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

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### NOTICE

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Illustration 1

g00531311

1. Use Tool (A) to remove snap ring (1) on each end of the rocker shaft assembly.

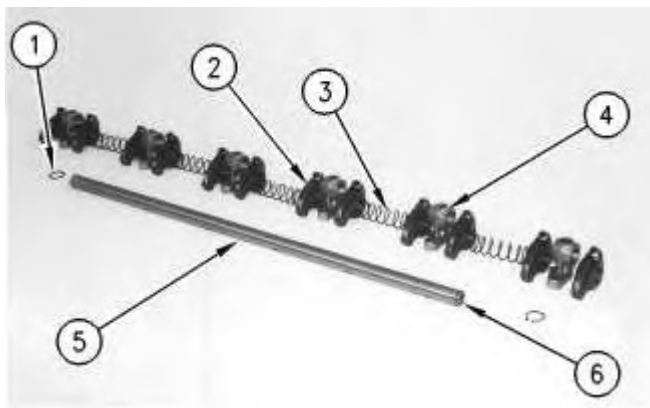


Illustration 2

g00531306

2. Remove twelve rockers (2), six rocker arm shaft brackets (4) and six springs (3) from each end of shaft assembly (5) .

**Note:** Mark the location and the position of each component for later assembly.

3. Remove plugs (6) from each end of shaft assembly (5) .

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## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

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Publication Date -01/04/2004

Date Updated -22/04/2004

i02063398

### Rocker Shaft - Assemble

SMCS - 1102-016

### Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1855	Retaining Ring Pliers	1

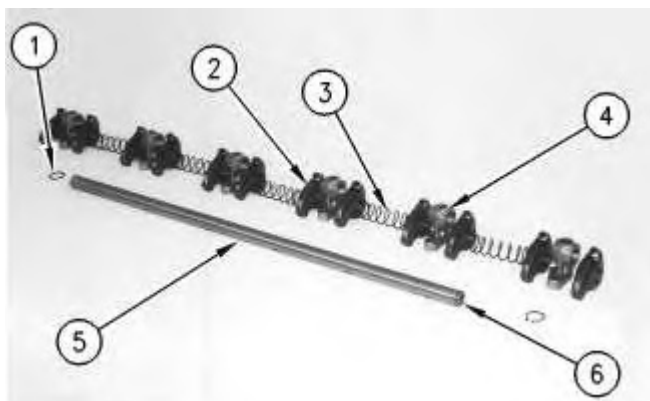
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#### NOTICE

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

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1. Install twelve rockers (2), six rocker arm shaft brackets (4) and six springs (3) onto shaft assembly (5) .
2. Install plugs (6) into each end of shaft assembly (5) .



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Illustration 2

3. Use Tool (A) to install snap ring (1) on each end of the rocker shaft assembly.

**End By:** Install the rocker shaft and pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrods - Install".

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## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

Media Number -SEN6458-05

Publication Date -01/04/2004

Date Updated -22/04/2004

i01579663

# Rocker Shaft and Pushrod - Install

SMCS - 1102-012; 1208-012

## Installation Procedure

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### NOTICE

**Keep all parts clean from contaminants.**

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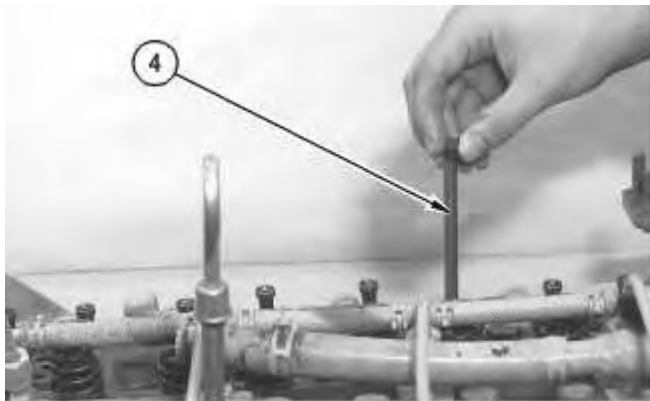


Illustration 1

g00530467

1. Install pushrods (4) .

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