



# Service Repair Manual

## **Models**

311C and 311C U Excavator

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Product: EXCAVATOR

Model: 311C EXCAVATOR CKE

Configuration: 311C U Excavator CKE00001-UP (MACHINE) POWERED BY 3064 Engine

## Disassembly and Assembly 3064 and 3066 Engines for Caterpillar Built Machines

Media Number -SEN5553-10

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i01150941

# Inlet and Exhaust Valve Seals - Remove and Install

SMCS - 1104-010-SA

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	5P-1720	Seal Pick	1

### Start By:

- A. Remove the inlet and exhaust valves. Refer to Disassembly and Assembly, "Inlet and Exhaust Valves - 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

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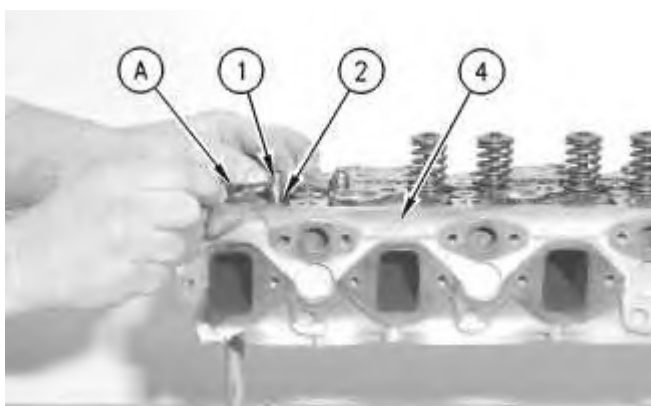


Illustration 2

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1. Use Tool (A) to remove valve stem seal (1) from the inlet and exhaust valve guide.

Illustration 1 shows the removal of the valve stem seal, when the valve guide (2) is removed from cylinder head (4) .

Illustration 2 shows the removal of the valve stem seal, while the valve guide (2) is installed in cylinder head (4) .

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	5P-1720	Seal Pick	1

### NOTICE

**Keep all parts clean from contaminants.**

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

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**Note:** Do not apply any oil or sealant to the mating surface of the valve seal that comes into contact with the valve guide. When the valve seal is installed, coat the surface of the valve stem with engine oil in order to ensure initial lubrication of the seal lip.

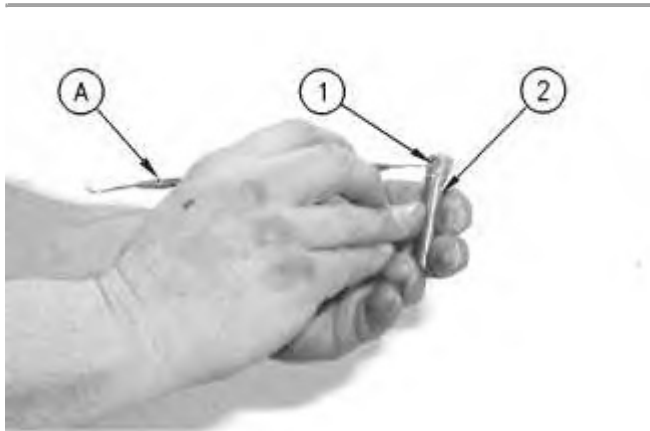


Illustration 3

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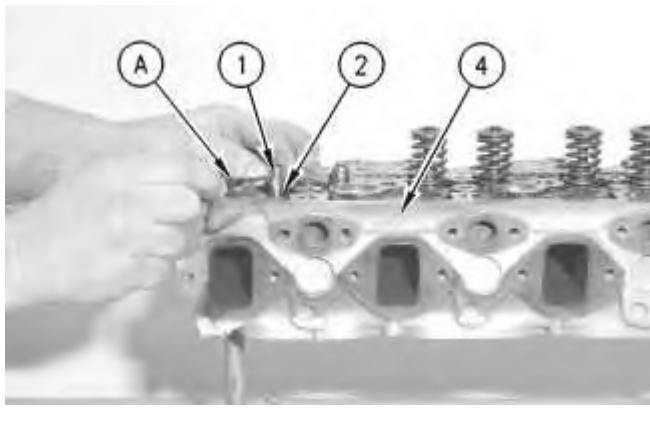


Illustration 4

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1. Place the new valve stem seal in position on the valve guide.
2. Use Tool (A) to assist in installing the new valve stem seal.

Illustration 3 shows the installation of the valve stem seal, when the valve guide (2) is removed from the cylinder head (4) .

Illustration 4 shows the installation of the valve stem seal, while the valve guide (2) is installed in the cylinder head (4) .

**Note:** After the valve stem seal is installed on the valve guide, ensure that the seal is properly installed in the groove of the valve guide.

**End By:** Install the inlet and exhaust valves. Refer to Disassembly and Assembly, "Inlet and Exhaust Valves - Remove and Install".

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