

Product: EXCAVATOR

Model: 320-A EXCAVATOR 2DL

Configuration: 320, 320L & 320N TRACK-TYPE EXCAVATORS 2DL00214-UP (MACHINE) POWERED BY 3066 ENGINE

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

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

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".

---

### NOTICE

**Keep all parts clean from contaminants.**

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

---

---

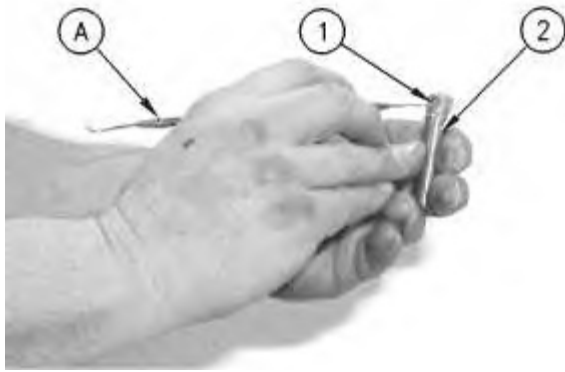


Illustration 1

g00610601

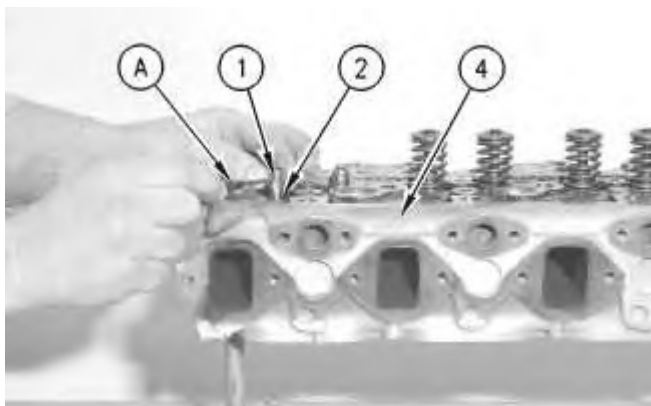


Illustration 2

g00610605

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.

---

**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.

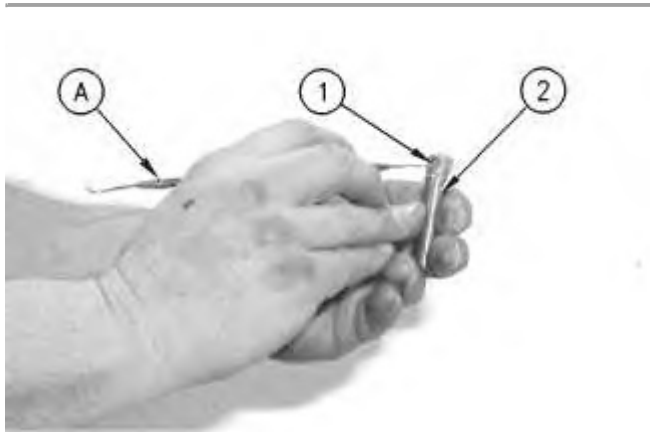


Illustration 3

g00610601

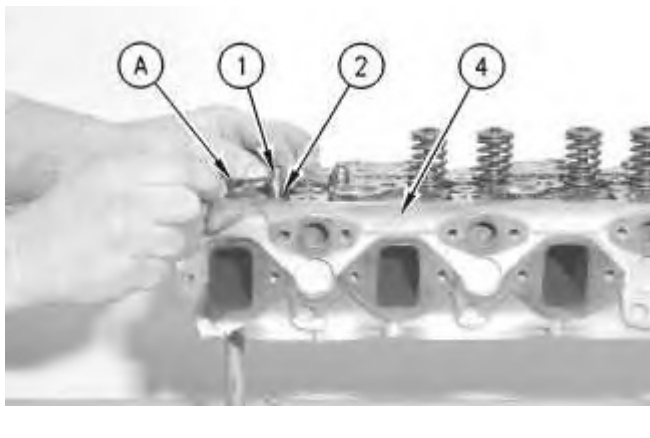


Illustration 4

g00610605

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".

---

Product: EXCAVATOR

Model: 320-A EXCAVATOR 2DL

Configuration: 320, 320L & 320N TRACK-TYPE EXCAVATORS 2DL00214-UP (MACHINE) POWERED BY 3066 ENGINE

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

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

i01565892

# Engine Oil Filter Base - Remove

SMCS - 1306-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	185-3630	Strap Wrench Assembly	1



### WARNING

Hot oil and components can cause personal injury.

Do not allow hot oil or components to contact skin.

---

### NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

---

### NOTICE

**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

---

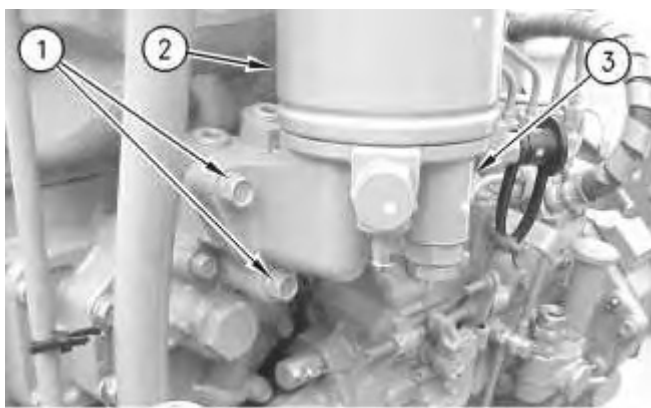


Illustration 1

g00813775



Illustration 2

g00813789

1. Use Tool (A) and remove oil filter (2) from engine oil filter base (3) .
2. Remove the bolts (1) and washers from the engine oil filter base (3) .
3. Remove engine oil filter base (3) from the engine.

4. Check the condition of O-ring seals (4). Replace the O-ring seals, if the O-ring seals are worn or damaged.

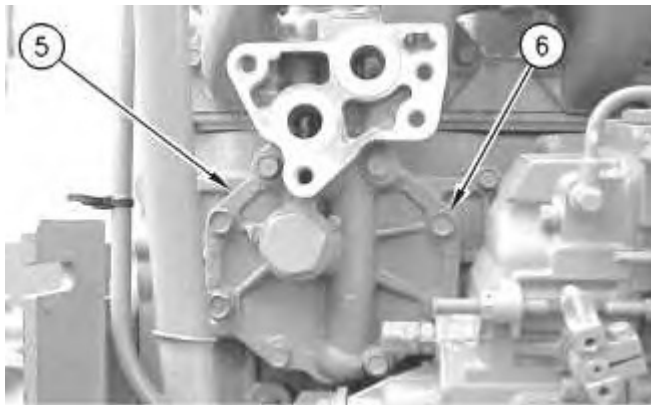


Illustration 3

g00813823

5. If necessary, remove eight bolts (6) and the washers in order to remove plate (5) from the engine.
  6. Check the condition of gasket (not shown). Replace the gasket, if the gasket is worn or damaged.
  7. Check engine oil filter base (3) and plate (5) for clogging and cracks. Replace damaged components with replacement parts.
-

Product: EXCAVATOR

Model: 320-A EXCAVATOR 2DL

Configuration: 320, 320L & 320N TRACK-TYPE EXCAVATORS 2DL00214-UP (MACHINE) POWERED BY 3066 ENGINE

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

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

i01565969

# Engine Oil Filter Base - Install

SMCS - 1306-012

## Installation Procedure

---

### NOTICE

**Keep all parts clean from contaminants.**

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

---

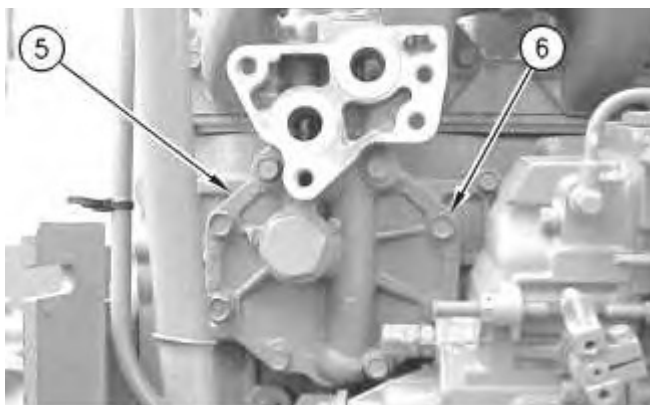


Illustration 1

g00813823

1. Secure gasket and plate (5) to the cylinder block with eight bolts (6) .
-



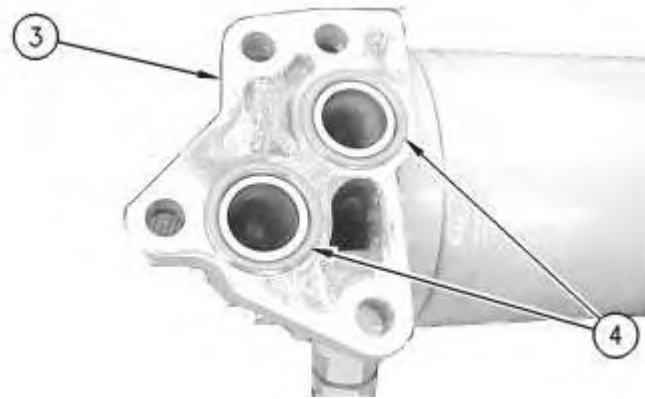


Illustration 2

g00813789

2. Check the condition of O-ring seals (4). Replace the O-ring seals, if the O-ring seals are damaged.

**Note:** Coat all of the O-ring seals with clean engine oil prior to installation.

3. Install the O-ring seals (4) on engine oil filter base (3) .

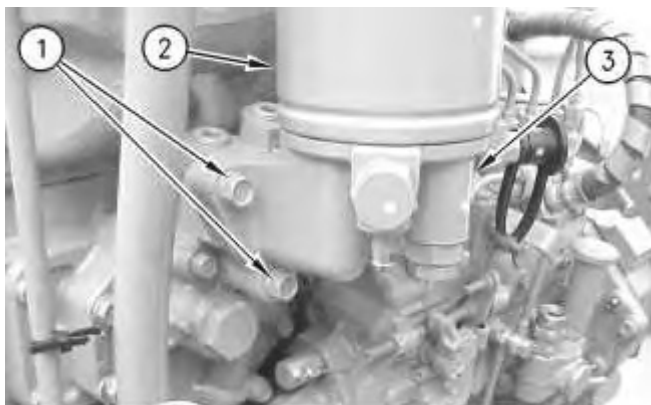


Illustration 3

g00813775

4. Secure engine oil filter base (3) to the plate (5) with four bolts (1) and the washers.
5. Install the engine oil filter (2) to the engine oil filter base (3) .

**Note:** Follow the installation procedure on the engine oil filter in order to install the engine oil filter on the engine oil filter base.

---



**Download the full PDF manual instantly.**

**Our customer service e-mail:**

**[aservicemanualpdf@yahoo.com](mailto:aservicemanualpdf@yahoo.com)**