

Product: EXCAVATOR

Model: 315B EXCAVATOR 1SW

Configuration: 315B & 315B L TRACK-TYPE EXCAVATORS 1SW00001-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

i01027796

# Crankshaft Front Seal - Remove

SMCS - 1160-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7600	Slide Hammer Puller	1

### Start By:

- A. Remove the vibration damper and the crankshaft pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - 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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### NOTICE

**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. 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 in Caterpillar machines.**

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

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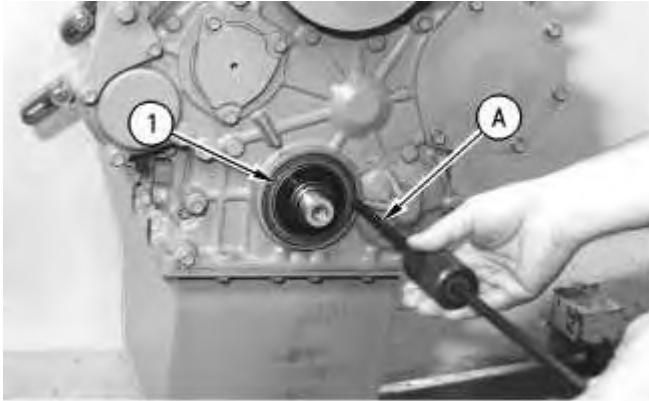


Illustration 1

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1. Drill three evenly spaced 3 mm (.12 inch) holes in crankshaft front seal (1) .
  2. Use Tool (A) and remove crankshaft front seal (1) .
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i01027827

## Crankshaft Front Seal - Install

SMCS - 1160-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	4C-6376	Seal Installer Stud	1
	4C-6377	Seal Installer Washer	1
	4C-6378	Seal Installer Sleeve	1

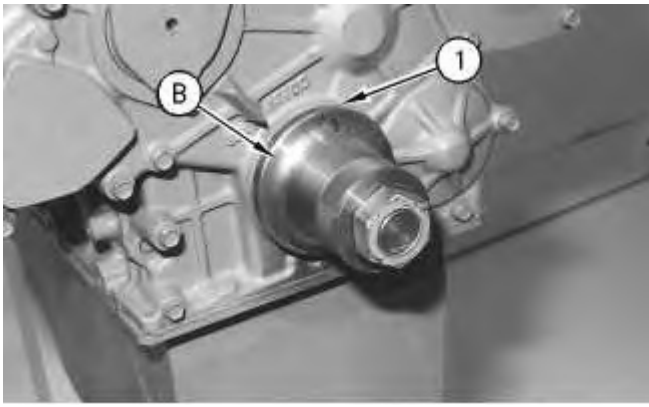
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### NOTICE

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Illustration 1

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1. Clean the faces of all the mating parts. Apply a thin coat of clean engine oil to a new crankshaft front seal.
2. Install new crankshaft front seal (1) with Tool (A) .
3. Remove Tool (A) and check crankshaft front seal (1) for correct installation.
4. Apply clean engine oil to the face of the crankshaft pulley that will be in contact with the new crankshaft front seal.

**End By:** Install the vibration damper and the pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Remove and Install".

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i01646292

# Gear Group (Front) - Remove - Idler Gear Only

SMCS - 1206-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6148	Idler Shaft Puller	1

### Start By:

- A. Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".

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### NOTICE

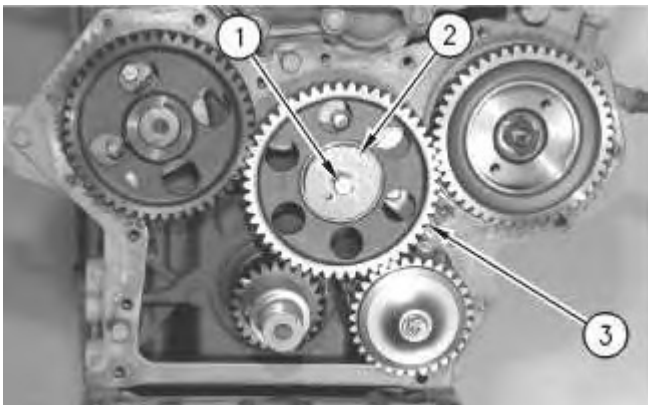
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**Dispose of all fluids according to local regulations and mandates.**

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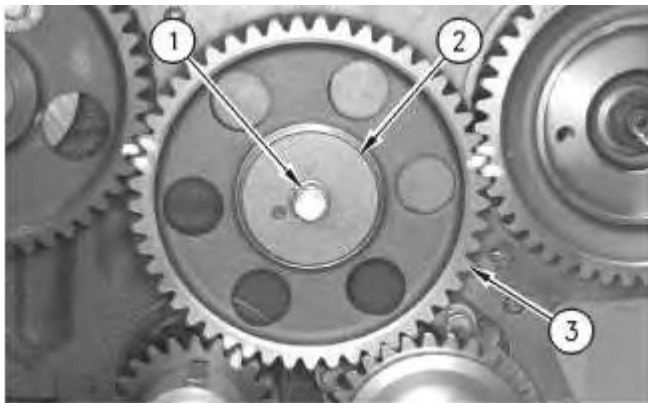
**Note:** Before removal, ensure that the marks on the timing gears are in alignment. Align the fuel injection drive gear with the "33" mark with the "3" mark on the idler gear. Make an alignment of the "2" mark on the camshaft gear with the "22" mark on the idler gear. Align the "1" mark on the crankshaft gear with the "11" mark on the idler gear. The No. 1 cylinder is at the top center position when these marks are in alignment.



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Illustration 1

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Illustration 2

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1. Remove idler gear bolt (1) and the washer from the idler gear shaft .
2. Remove thrust plate (2) .
3. Remove idler gear (3) .

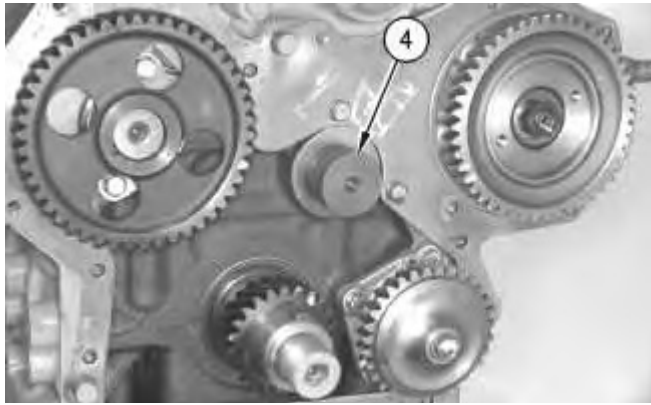


Illustration 3

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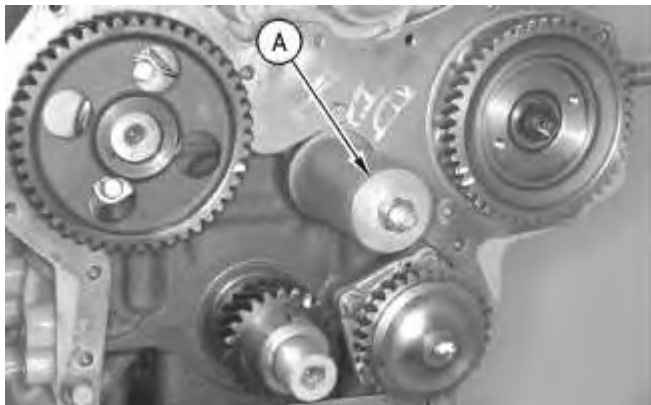


Illustration 4

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4. Use Tool (A) and remove idler shaft (4) from the cylinder block.



Illustration 5

g00559572

5. If necessary, remove five bolts (5) that hold front plate (6) to the cylinder block.

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