

Product: WHEEL LOADER

Model: 930R WHEEL LOADER 57Z

Configuration: 930R WHEEL LOADER 57Z03017-03999 (MACHINE) POWERED BY 3304 ENGINE

## Disassembly and Assembly 3304B and 3306B Engines for Caterpillar Built Machines

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i00990465

# Crankshaft Front Seal - Remove

SMCS - 1160-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1
B	5P-7315	Wear Sleeve Distorter Ring	1
C	5P-7312	Seal Distorter	1

### Start By:

- A. Remove the vibration damper and the 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

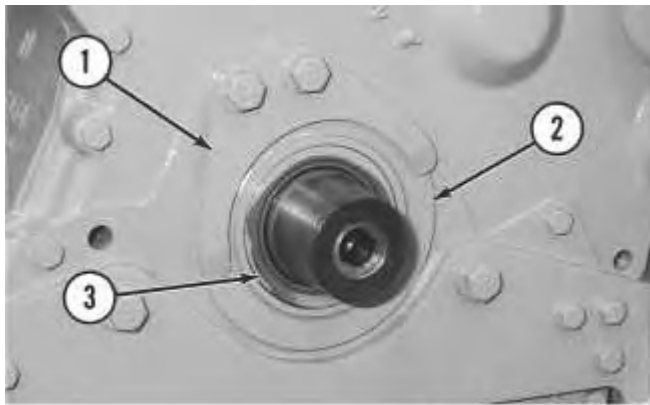
**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**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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**Note:** When a crankshaft seal is replaced, the wear sleeve must also be replaced.

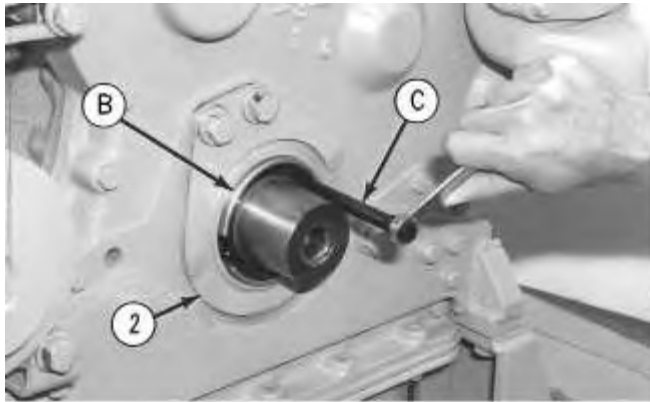


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Illustration 1

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1. Remove the two bolts, washers, spacers and clamp (1) that holds crankshaft seal adapter (2) in position. Remove crankshaft seal adapter (2) and the O-ring seal from the engine.
  2. Use Tool (A) and a press to remove the crankshaft seal from crankshaft seal adapter (2) .
  3. Install the O-ring seal and crankshaft seal adapter (2) on the engine. Install the two bolts, washers, spacers and clamp (1) to hold crankshaft seal adapter (2) in position.
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Illustration 2

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4. Install Tool (B) in the bore of seal adapter (2), as shown.

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### NOTICE

**Care should be taken to ensure that the seal distorter does not cut through the wear sleeve. Damage to the crankshaft surface may occur leading to possible oil seal leaks.**

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5. Install Tool (C) between Tool (B) and the wear sleeve. Turn Tool (C) with a wrench, until the edge of the tool makes a flat crease in the wear sleeve. Repeat this process until there are enough creases in the wear sleeve in order to allow the wear sleeve to be slipped off the end of the crankshaft.
  6. Remove Tools (B) and (C). Remove the wear sleeve by hand.
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