



Service Repair Manual

Models

312D L Excavator

Product: EXCAVATOR

Model: 312D L EXCAVATOR XGK

Configuration: 312D L Excavator XGK00001-UP (MACHINE) POWERED BY C4.2 Engine

Disassembly and Assembly C4.2 Engine for Caterpillar Built Machines

Media Number -KENR8105-04

Publication Date -01/06/2013

Date Updated -12/06/2013

i06790404

Crankshaft Pulley - Remove and Install

SMCS - 1205-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2321	Combination Puller	1
B	6V-9120	Socket ⁽¹⁾	1

⁽¹⁾ Tooling (B) is a 46 mm socket.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Remove the belt. Refer to Operation and Maintenance Manual, "Belt - Inspect/Adjust/Replace".
-

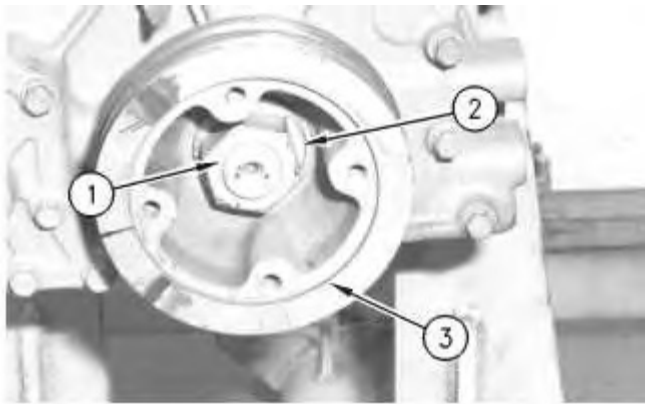


Illustration 1

g00604778

2. Use Tooling (B) in order to remove nut (1) and washer (2) from the threaded end of the crankshaft.

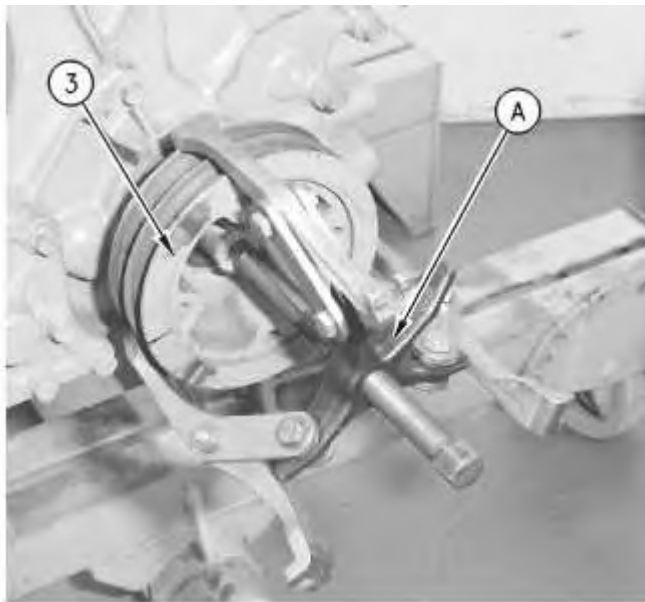


Illustration 2

g00604784

3. Use Tooling (A) in order to remove crankshaft pulley (3) from the engine.

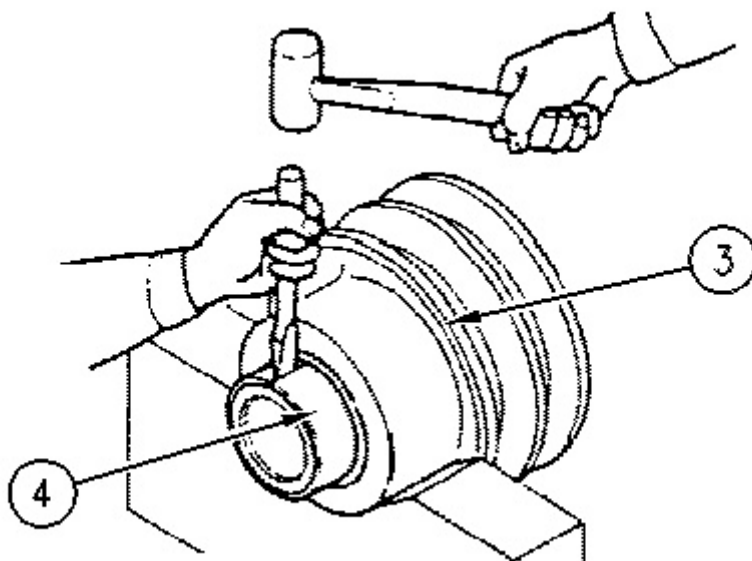


Illustration 3

g00604792

4. If it is necessary to remove wear sleeve (4) from crankshaft pulley (3), use a suitable hammer and a suitable chisel. Hold the suitable chisel at right angles to the surface of the wear sleeve. Tap the wear sleeve in three places. You can remove the wear sleeve once the tension is released.

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
B	6V-9120	Socket ⁽¹⁾	1
C	1P-0510	Driver Gp	1

⁽¹⁾ Tooling (B) is a 46 mm socket.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Raise the temperature of the wear sleeve. Use Tooling (C) in order to install the wear sleeve onto the crankshaft pulley.

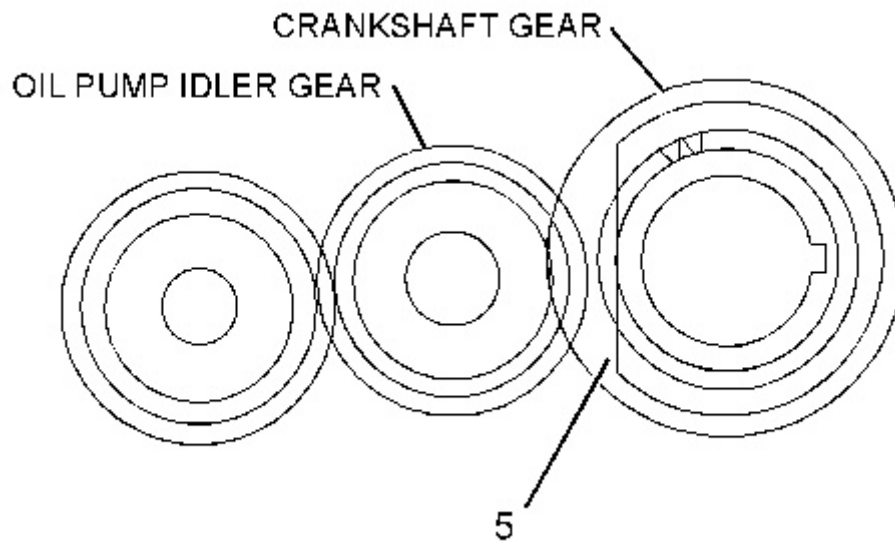


Illustration 4

g01377941

2. Ensure that baffle plate (5) is oriented, as shown.

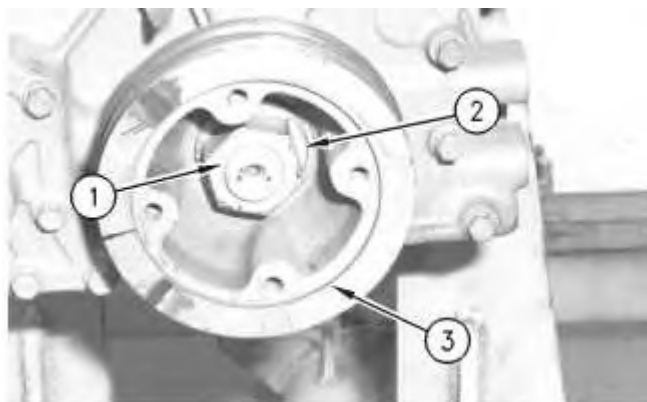


Illustration 5

g00604778

3. Position crankshaft pulley (3) onto the engine.
4. Install washer (2) and nut (1). Use Tooling (B) in order to tighten nut (1) to a torque of $707.5 \pm 57.5 \text{ N}\cdot\text{m}$ ($522 \pm 42 \text{ lb ft}$).
5. Install the belt. Refer to Operation and Maintenance Manual, "Belt - Inspect/Adjust/Replace".

Product: EXCAVATOR

Model: 312D L EXCAVATOR XGK

Configuration: 312D L Excavator XGK00001-UP (MACHINE) POWERED BY C4.2 Engine

Disassembly and Assembly

C4.2 Engine for Caterpillar Built Machines

Media Number -KENR8105-04

Publication Date -01/06/2013

Date Updated -12/06/2013

i02742689

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:

- Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Pulley - Remove and Install".

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

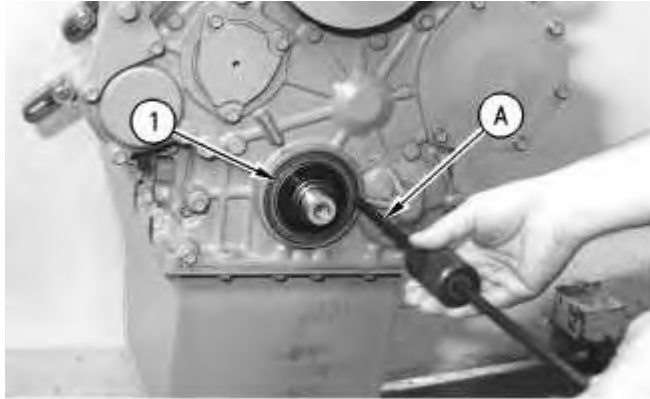


Illustration 1

g00529162

Typical Example

1. Drill three evenly spaced 3.0 mm (0.12 inch) holes in crankshaft front seal (1).
2. Use Tooling (A) in order to remove crankshaft front seal (1). Remove the seal evenly by alternating the position of Tooling (A) from hole to hole.

Note: Do not damage the flange of the crankshaft during the removal process for the crankshaft front seal.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com