



# Service Repair Manual

## **Models**

# 308E Mini Hydraulic Excavator

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Product: MINI HYD EXCAVATOR

Model: 308E MINI HYD EXCAVATOR GBJ

Configuration: 308E Mini Hydraulic Excavator GBJ00001-UP (MACHINE) POWERED BY C3.3B Engine

## Disassembly and Assembly C2.6 and C3.3B Engines for Caterpillar Built Machines

Media Number -UENR0137-11

Publication Date -01/08/2015

Date Updated -12/07/2018

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# Camshaft Gear - Remove and Install

SMCS - 1210-010-GE

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1
B	8B-7551	Puller Assembly	1
C	8H-0663	Bearing Puller	1

### Start By:

- a. Remove the camshaft.

**Note:** Refer to Specification UENR0995 "Engine Design" for non-specified engine Torque Values.

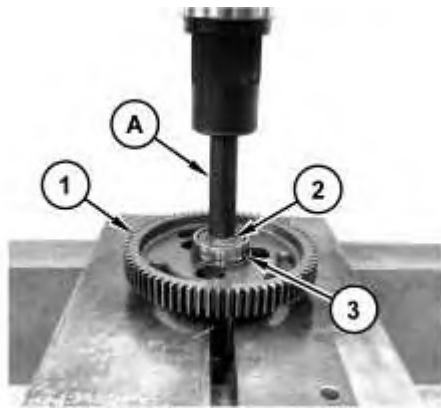
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### NOTICE

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

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

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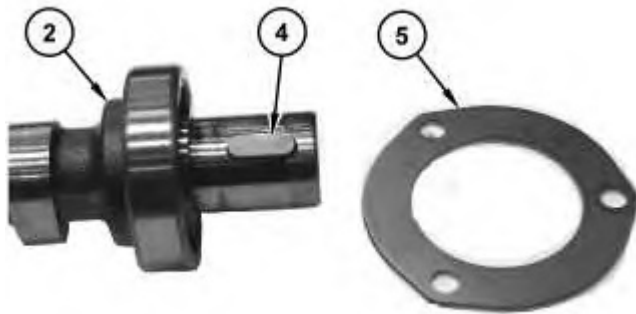


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Illustration 1

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1. Use Tooling (A) in order to remove camshaft gear (1) from camshaft (2).
2. If necessary, apply heat to raise the temperature of the race (3) of the roller bearing to remove.



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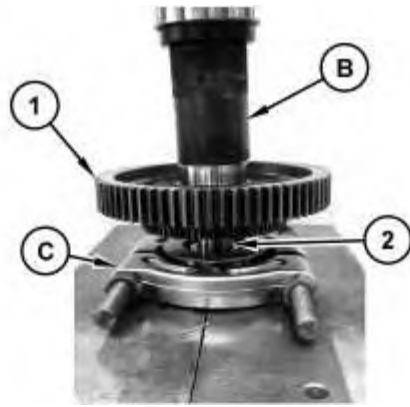
Illustration 2

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3. Remove plate (5) from camshaft (2).
4. If necessary, remove the key (4) from the nose of camshaft (2).

## Installation Procedure

1. Install camshaft gear (1) in the reverse order of removal.
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Illustration 3

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- a. Use Tooling (B) and Tooling (C) in order to install camshaft gear (1) onto camshaft (2).
- b. Ensure that the camshaft gear and the key are clean and free from wear and damage.

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i05242933

# Engine Oil Pan - Remove and Install

SMCS - 1302-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	LOCTITE 38364 Flange Sealant	1

**Note:** Refer to Specification UENR0995 "Engine Design" for non-specified engine Torque Values.

1. Refer to Operation and Maintenance Manual, "Engine Oil and Filter - Change" for the proper draining and filling procedures.



Illustration 1

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2. Remove bolts (2) and remove oil pan (1).

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