



# Service Repair Manual

## **Models**

305.5E2CR Mini Hydraulic  
Excavator

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Product: MINI HYD EXCAVATOR

Model: 305.5E2 CR MINI HYD EXCAVATOR HRX

Configuration: 305.5E2CR Mini Hydraulic Excavator HRX00001-UP (MACHINE) POWERED BY C2.4 Engine

## Disassembly and Assembly

### C2.4 Tier 4 Final Engines for Caterpillar Built Machines

Media Number -UENR7319-02

Publication Date -01/07/2018

Date Updated -01/08/2018

i06541348

## Camshaft - Remove and Install

SMCS - 1210-010

### Removal Procedure

Start By:

- a. Remove cylinder head.

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#### NOTICE

**Keep all parts clean from contaminants.**

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

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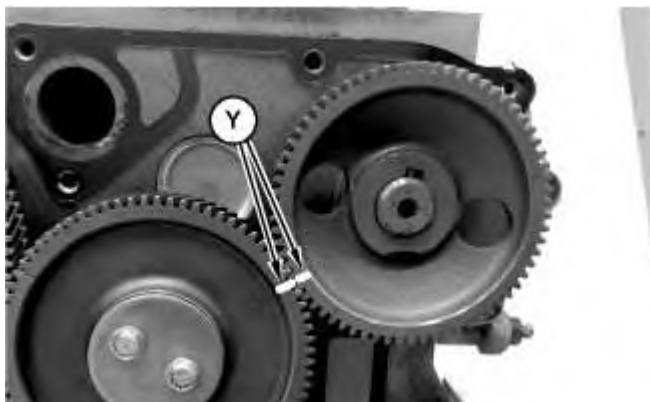


Illustration 1

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1. Ensure that Timing Marks (Y) on the idler gear and the camshaft gear are aligned.



Illustration 2

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2. Remove lifters (1).

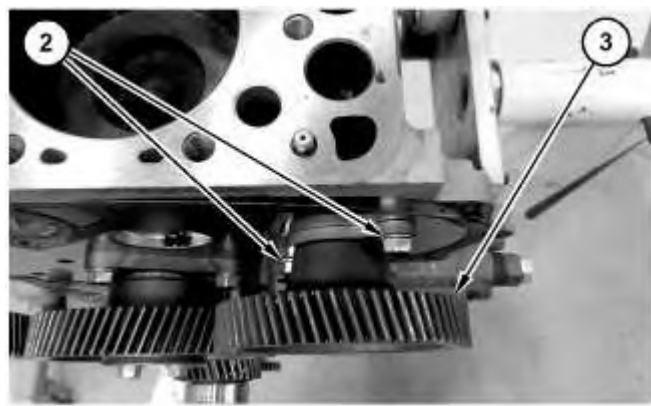


Illustration 3

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3. Remove bolts (2) and camshaft (3).

## Installation Procedure

1. Install camshaft (3) in the reverse order of removal.
  - a. Tighten bolts (2) to a torque of 24 N·m to 27 N·m (212 lb in to 239 lb in).

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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

#### Start By:

- a. Remove the camshaft.

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#### NOTICE

**Keep all parts clean from contaminants.**

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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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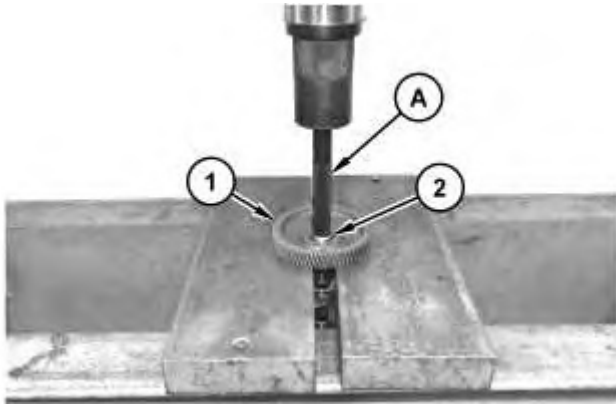


Illustration 1

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1. Use Tooling (A) to remove camshaft gear (1) from camshaft (2). Use Tooling (B) to install camshaft gear (1) onto camshaft (2).
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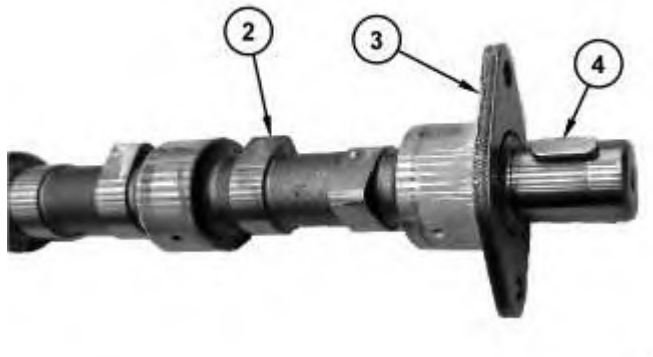


Illustration 2

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

## **Installation Procedure**

1. Install camshaft gear (1) in the reverse order of removal.
    - a. Ensure that the camshaft gear and the key are clean and free from wear and damage.
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