

Product: MINI HYD EXCAVATOR

Model: 308E2 CR MINI HYD EXCAVATOR TMX

Configuration: 308E2 CR Mini Hydraulic Excavator TMX00001-UP (MACHINE) POWERED BY C3.3B Engine

## Disassembly and Assembly

### C3.3B Tier 4 Final and EU Stage 3B Engines for Caterpillar Built Machines

Media Number -UENR3278-07

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i05306714

## Idler Gear - Remove and Install

SMCS - 1206

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	390-1135	Idler Gear Tool	1

#### Start By:

- a. Remove the rear housing.

**Note:** Refer to Specifications, "Engine Design" for non-specified engine torque values.

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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 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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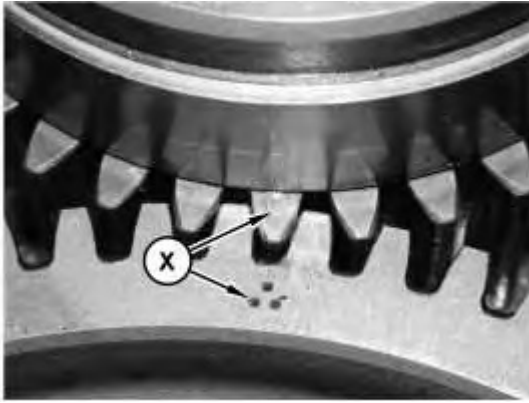


Illustration 1

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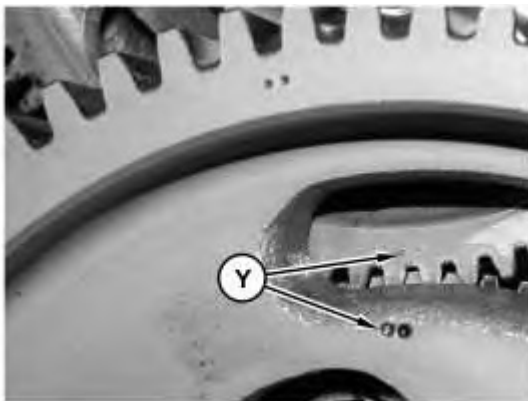


Illustration 2

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Illustration 3

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Alignment of timing marks

1. Find top dead center for number 4 piston. Refer to Testing and Adjusting, "Finding Top Center for No. 4 Piston".
2. Ensure that Timing Marks (X) on the camshaft gear and the crankshaft gear are aligned. Refer to Illustration 1.
3. Ensure that Timing Marks (Y) on the idler gear and the camshaft gear are aligned. Refer to Illustration 2.
4. Ensure that Timing Marks (Z) on the idler gear and the fuel injection pump gear are aligned. Refer to Illustration 3.

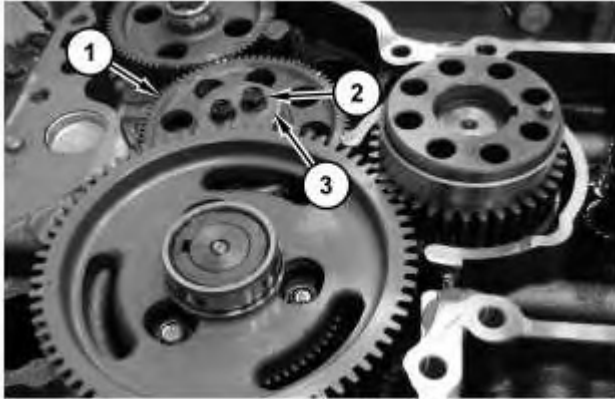


Illustration 4

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5. Remove bolts (2), washer (3), and the idler shaft from idler gear (1). Remove idler gear (1) and the washer.

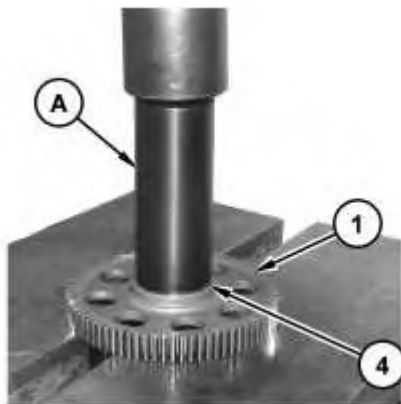


Illustration 5

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6. Use Tooling (A) to remove idler gear bearing (4) from idler gear (1).

## Installation Procedure

1. Install idler gear (1) in the reverse order of removal.
  - a. Tighten bolts (2) to a torque of 49 to 55 N·m (36 to 41 lb ft).

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