



# Service Repair Manual

## **Models**

303.5C CR Mini Hydraulic  
Excavator

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Product: MINI HYD EXCAVATOR

Model: 303.5C MINI HYD EXCAVATOR DMY

Configuration: 303.5C CR Mini Hydraulic Excavator DMY00001-UP (MACHINE) POWERED BY S3Q2 Engine

## **Disassembly and Assembly S3Q2 and S3Q2-T Engines**

Media Number -KENR6786-03

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## **Timing Gear, Camshaft, and Oil Pan - Disassemble and Inspect**

SMCS - 1206-015; 1206-040; 1210-015; 1210-040; 1302-015; 1302-040

## **Disassembling and inspecting timing gear, camshaft, and oil pan**

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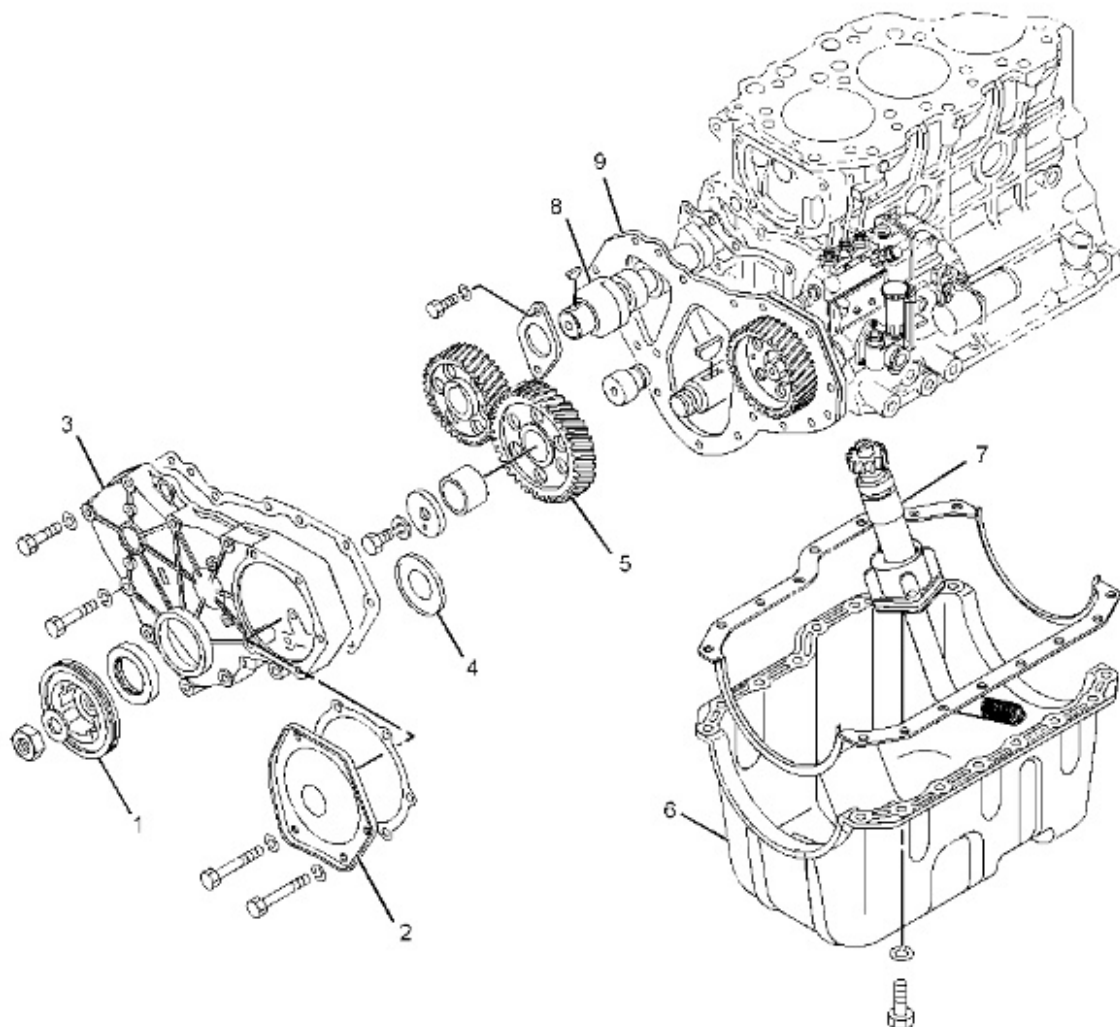


Illustration 1

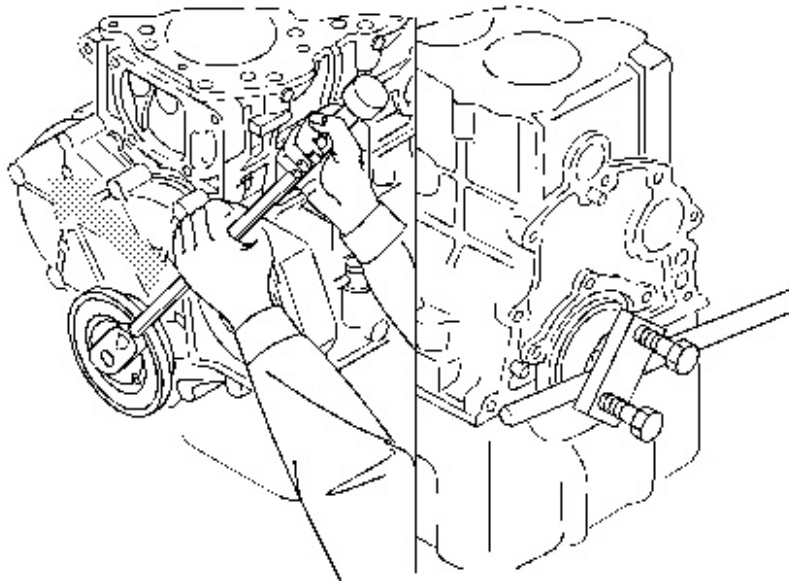
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#### Disassembling sequence

- (1) Crankshaft pulley
- (2) Cover
- (3) Timing gear case
- (4) Baffle plate
- (5) Idler gear
- (6) Oil pan
- (7) Oil pump
- (8) Camshaft
- (9) Front plate

## Removing crankshaft pulley

**Note:** The bar that stops the crankshaft from turning may come off. Pay due attention to safety.



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Illustration 2

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1. Screw two guide bolts into the threaded holes at the rear end of the crankshaft. Stick a bar across the guide bolts to prevent the crankshaft from turning.
2. Remove the crankshaft pulley.
3. Take out the woodruff key of the crankshaft.

Inspect the crankshaft pulley (1) for worn belt groove and worn oil seal contact surface.

## Removing timing gear case

**Note:** The front plate is bolted to the crankcase from inside the gear case. Do not attempt to remove the front plate together with the gear case by tapping.

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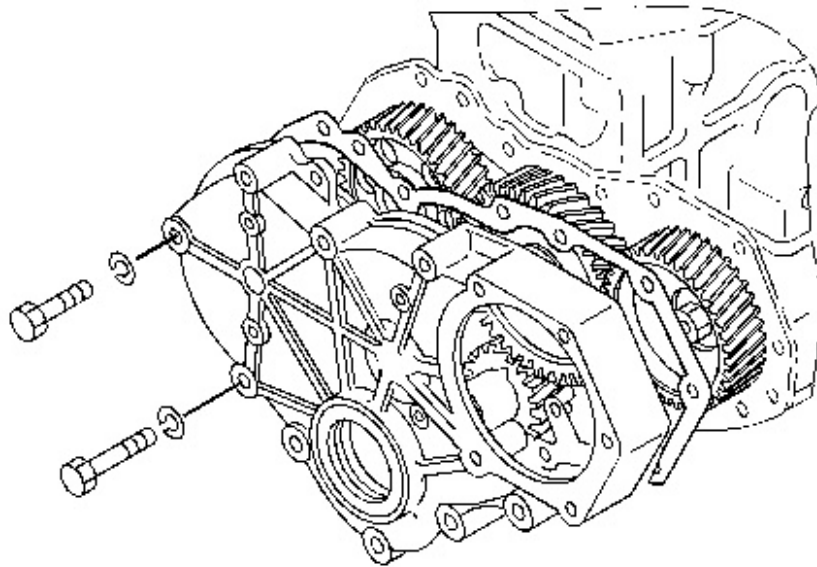


Illustration 3

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1. Remove bolts from the timing gear case.
2. Remove the timing gear case.

Inspect the timing gear case (3) for Crack and abnormality of knock hole.

**Note:** Bolts have different lengths. Pay attention to the positions of bolts to ensure correct reassembling.

## Measuring timing gear backlash

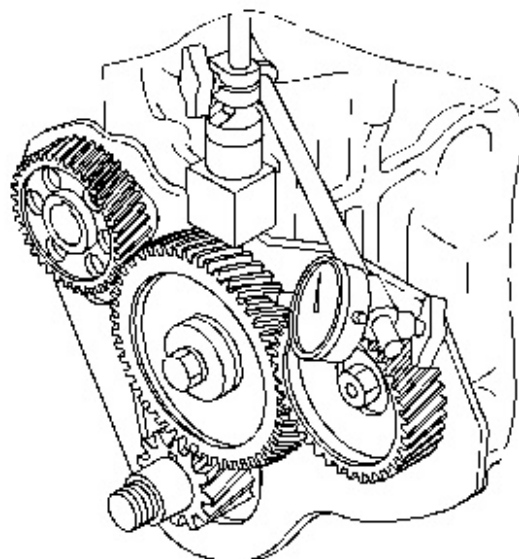


Illustration 4

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Use anyone of the following procedure to measure the backlash of the gear :

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