



Service Repair Manual

Models

252B Skid Steer Loader

Product: SKID STEER LOADER

Model: 252B SKID STEER LOADER SCP

Configuration: 236B 246B 252B 262B SKID STEER LOADER SCP00001-04599 (MACHINE) POWERED BY 3044C Engine

Disassembly and Assembly

3044C Industrial Engine and Engines for Caterpillar Built Machines

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Idler Gear - Remove and Install

SMCS - 1206

Removal Procedure

Start By:

- A. Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".

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, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

1. Ensure that the No. 1 cylinder is at the top center compression stroke. Refer to Testing and Adjusting, "Finding Top Center Position for No. 1 Piston".

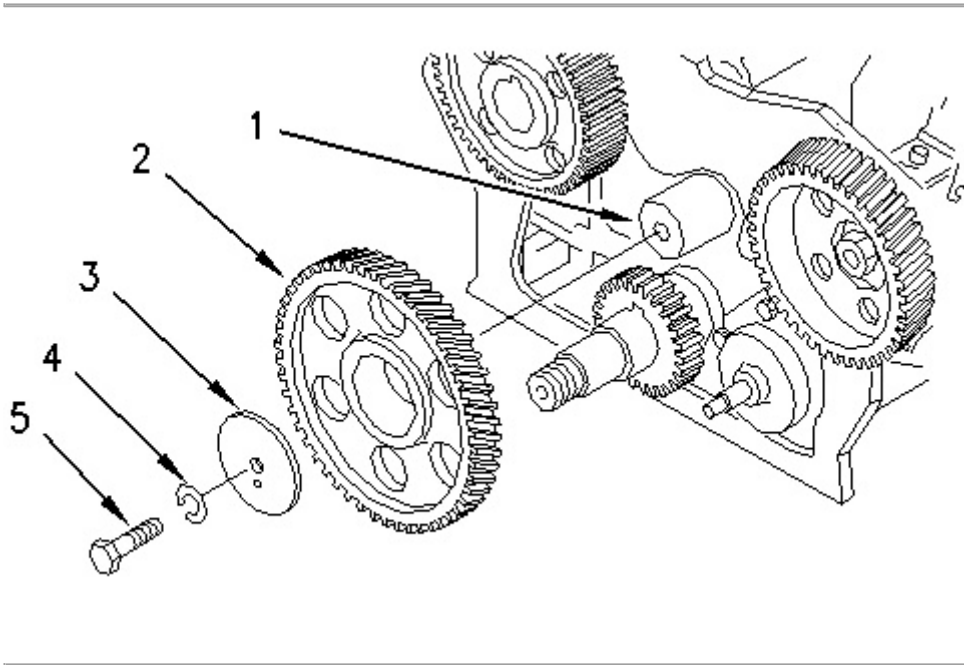


Illustration 1

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2. Remove bolt (5), washer (4), and retaining plate (3). Remove idler gear (2) from idler gear hub (1).

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

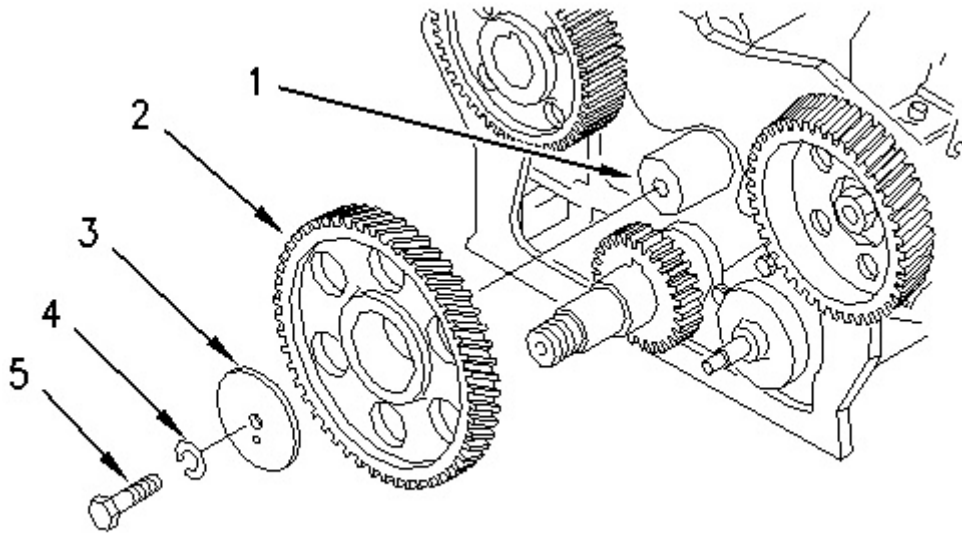


Illustration 2

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Note: The lubrication hole of idler gear hub (1) must be positioned at the top.

1. Install idler gear hub (1) in the cylinder block. Use a soft hammer to seat idler gear hub (1) .

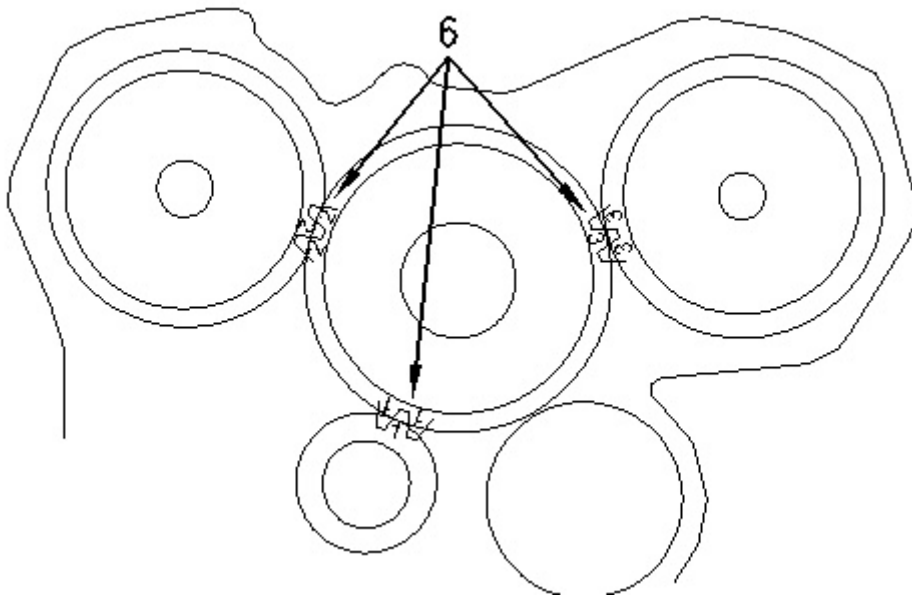


Illustration 3

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Note: When you install idler gear (2), ensure that the marked teeth are facing toward the front.

2. Align timing marks (6) on the teeth with the timing marks on the crankshaft gear, the fuel injection pump gear, and the camshaft gear. Position idler gear (2) on idler gear hub (1) .

3. Install retaining plate (3), washer (4), and bolt (5) and tighten to a torque of 29 to 39 N·m (21 to 29 lb ft).
4. Inspect the backlash and end play of the gear group. Refer to Testing and Adjusting, "Gear Group - Inspect".

End By: Install the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Install".

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