

Product: SKID STEER LOADER

Model: 236 SKID STEER LOADER 4YZ

Configuration: 236, 246, 248 Skid Steer Loader 4YZ00001-03999 (MACHINE) POWERED BY 3034 Engine

Disassembly and Assembly 3034 Engine for Caterpillar Built Machines

Media Number -SEN5013-08

Publication Date -01/11/2008

Date Updated -14/11/2008

i01368091

Idler Gear - Remove and Install

SMCS - 1206

Removal Procedure

Start By:

- A. Remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".
- B. Remove the front cover. 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.

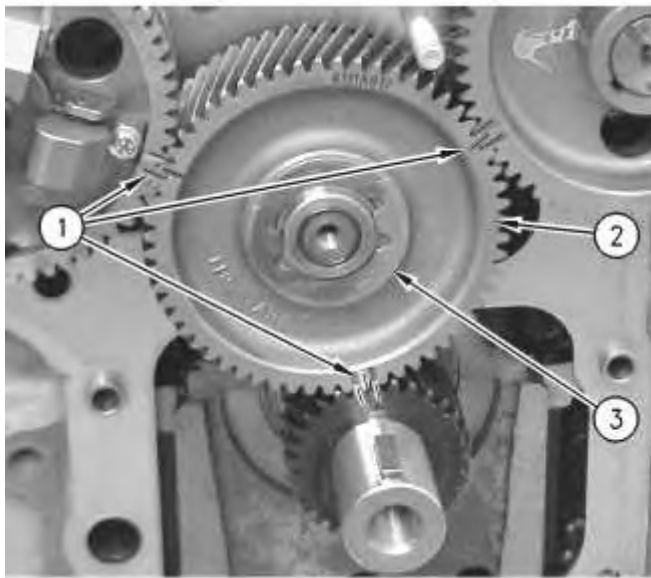


Illustration 1

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Note: Rotate the crankshaft until the timing marks on the following gears are aligned: crankshaft gear, camshaft gear, fuel injection pump gear and idler gear (1) .

1. Remove outer washer (3) from the idler gear shaft.
2. Use a suitable puller to remove idler gear (2) .

Note: Do not rotate the crankshaft once the idler gear has been removed. If the crankshaft is rotated, the number 1 piston must be set to the top center position. Refer to Testing and Adjusting, "Finding Top Center Position for No. 1 Piston".

3. Remove the inner washer from the idler gear shaft (not shown). The inner washer is located behind the idler gear.

Remove the Idler Gear Shaft

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0074	Slide Hammer Puller Gp	1
B	4C-5651	Threaded Adapter	1

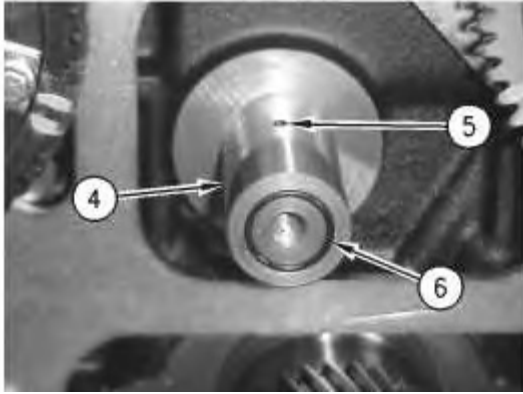


Illustration 2

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- (4) Idler gear shaft
- (5) Oil hole
- (6) O-ring seal

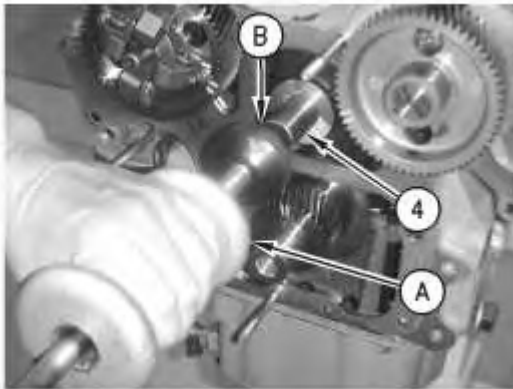


Illustration 3

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1. Remove O-ring seal (6) .
2. Thread tool (B) onto tool (A) .
3. Use tool (A) to remove idler gear shaft (4) .

Install the Idler Gear Shaft

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
C		Installation Tool	1

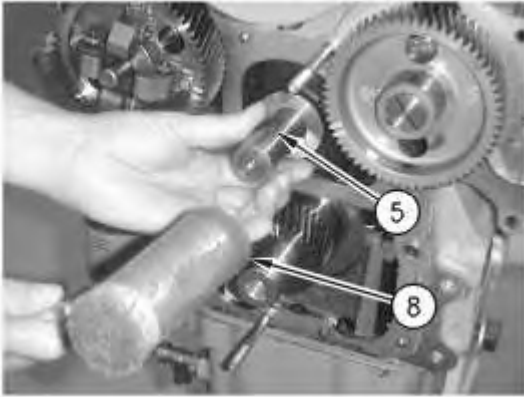


Illustration 4

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1. Ensure that oil hole (5) is in the up position.
2. Use a soft hammer (8) to start the idler gear shaft into the cylinder block.



Illustration 5

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3. Use tool (C) and tool (D) to install the idler gear shaft.
4. Drive the idler gear shaft with the installation tool until the installation tool makes contact with the machined surface of the cylinder block.

Installation Procedure

1. Install O-ring seal (6) .
2. Install the inner washer onto the idler gear shaft.
3. Install idler gear (2) .

Note: Ensure that the timing marks on the crankshaft gear, the camshaft gear, and the fuel injection pump gear are aligned with the timing marks on the idler gear (1) .

4. Install the outer washer (3) onto the idler gear shaft.

End By:

- a. Install the front cover. Refer to Disassembly and Assembly, "Housing (Front) - Install".
 - b. Install the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".
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i01354640

Housing (Front) - Remove

SMCS - 1151-011

Removal Procedure

Start By:

- A. Remove the alternator. Refer to Disassembly and Assembly, "Alternator - Remove and Install".
- B. Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Pulley - Remove and Install".
- C. Remove the fuel injection pump. Refer to Disassembly and Assembly, "Fuel Injection Pump - Remove".

NOTICE

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Dispose of all fluids according to local regulations and mandates.



Illustration 1

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1. Disconnect return spring (1) from the throttle lever on the front housing.

Note: It is necessary to get a reference for the maximum fuel setting in order to remove the front housing. This setting must be taken from the original front housing before the front housing is removed.

2. Establish a reference for the maximum fuel setting. Refer to the Testing and Adjusting Module, "Fuel Setting - Adjust" topic for more information.

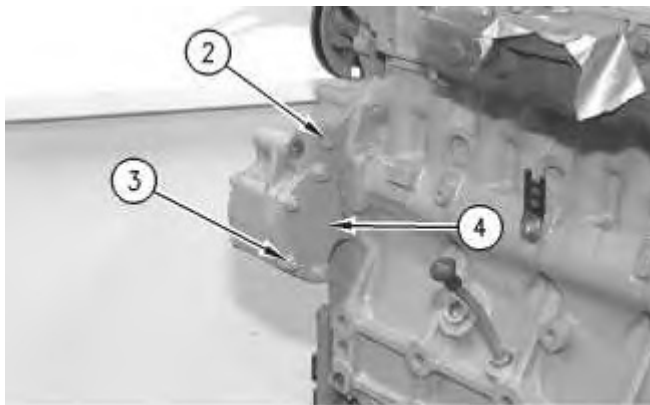


Illustration 2

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3. Remove four nuts (3), bolt (2), and plate (4) from the back side of the front housing.

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