

Product: TRACK-TYPE TRACTOR

Model: D6K2 LGP TRACK-TYPE TRACTOR RST

Configuration: D6K2 TRACK-TYPE TRACTOR LGP, XL RST00001-UP (MACHINE) POWERED BY C6.6 Engine

Disassembly and Assembly C6.6 Engines for Caterpillar Built Machines

Media Number -KENR9249-07

Publication Date -01/09/2015

Date Updated -19/06/2017

i03914650

Idler Gear - Remove

SMCS - 1206-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	364-9107	Timing Pin (Fuel Injection Pump)	1
B	230-6284	Timing Pin (Camshaft)	1
C	136-4632	Timing Pin (Crankshaft)	1
D	298-5564	T40 Torx Socket	1

Start By:

- Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove and Install" for the correct procedure.
- Remove the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install" for the correct procedure.

Note: Care must be taken in order to ensure that the fuel injection pump timing is not lost during the removal of the idler gear. Carefully follow the procedure in order to remove the fuel pump gear.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shorten component life.

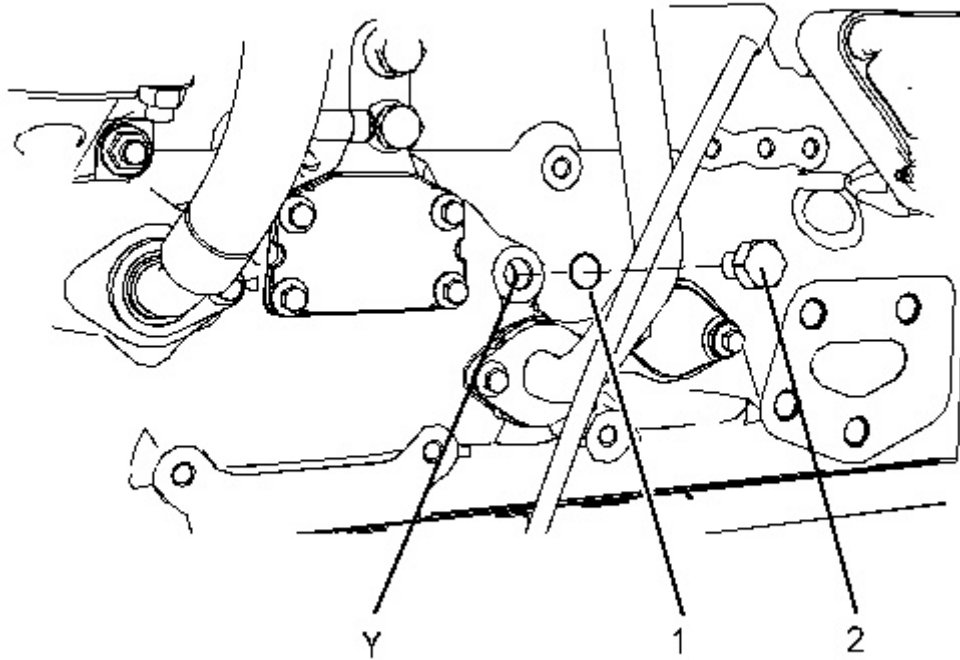


Illustration 1

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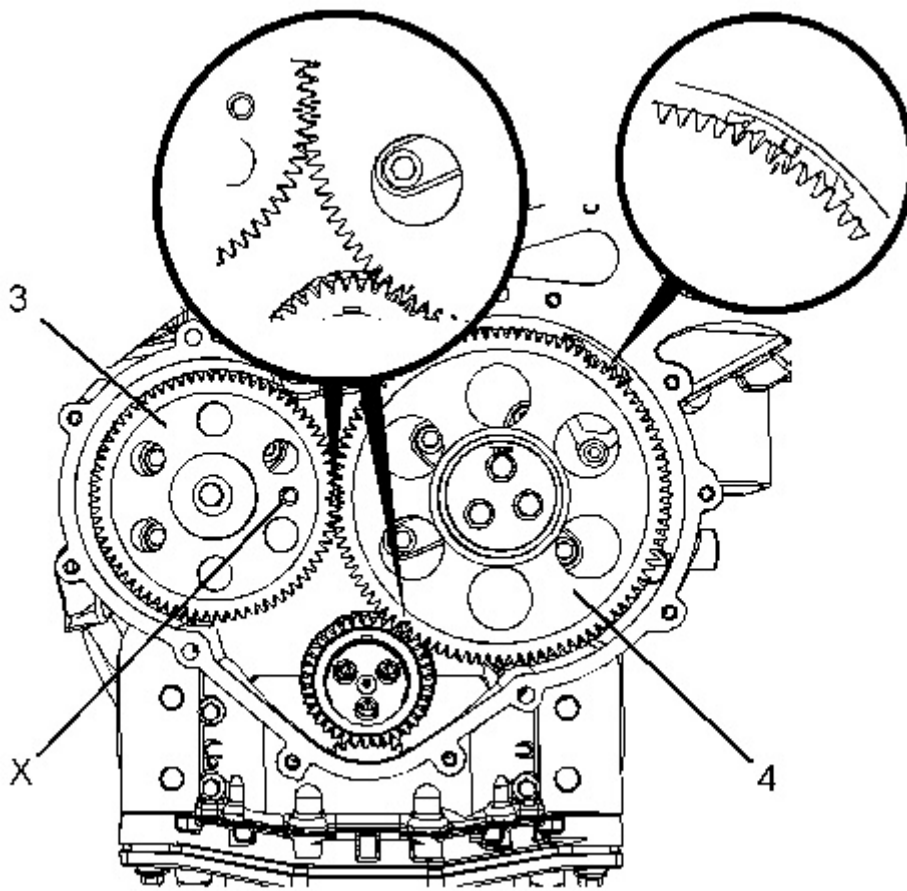


Illustration 2

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1. Rotate the crankshaft so that number one piston is at top dead center on the compression stroke. Refer to System Operation, Testing and Adjusting, "Finding Top Center Position for No.1 Piston" for the correct procedure.
2. Remove plug (2) from the cylinder block and remove O-ring seal (1) from the plug.
3. Ensure that Tooling (C) is installed in Hole (Y) in the cylinder block. Use Tooling (C) in order to lock the crankshaft in the correct position.
4. Ensure that Tooling (B) is installed into Hole (X) in camshaft gear (3). Use Tooling (B) in order to lock the camshaft in the correct position.

Note: Ensure that the gears are marked in order to show alignment. Refer to Illustration 2.

5. Use Tooling (A) in order to lock the fuel injection pump gear in the correct position. Refer to Disassembly and Assembly, "Fuel Injection Pump - Remove" for the correct procedure.

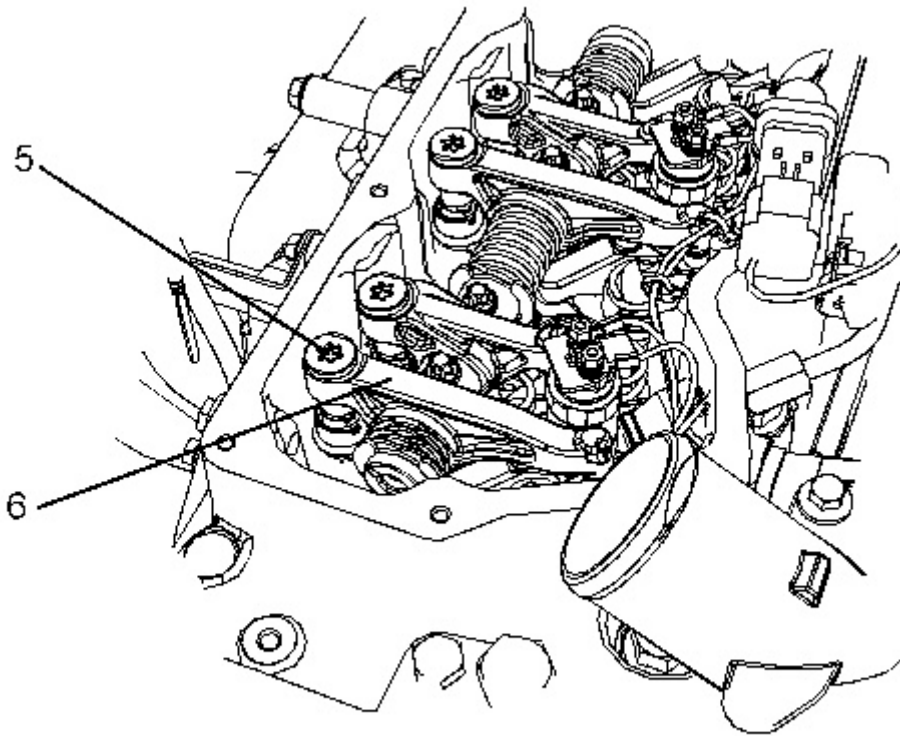


Illustration 3

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6. Use Tooling (D) in order to loosen threaded inserts (5) on all rocker arms (6). Unscrew threaded inserts (5) on all rocker arms (6) until all valves are fully closed.

Note: Failure to ensure that ALL threaded inserts are fully unscrewed can result in contact between the valves and pistons.

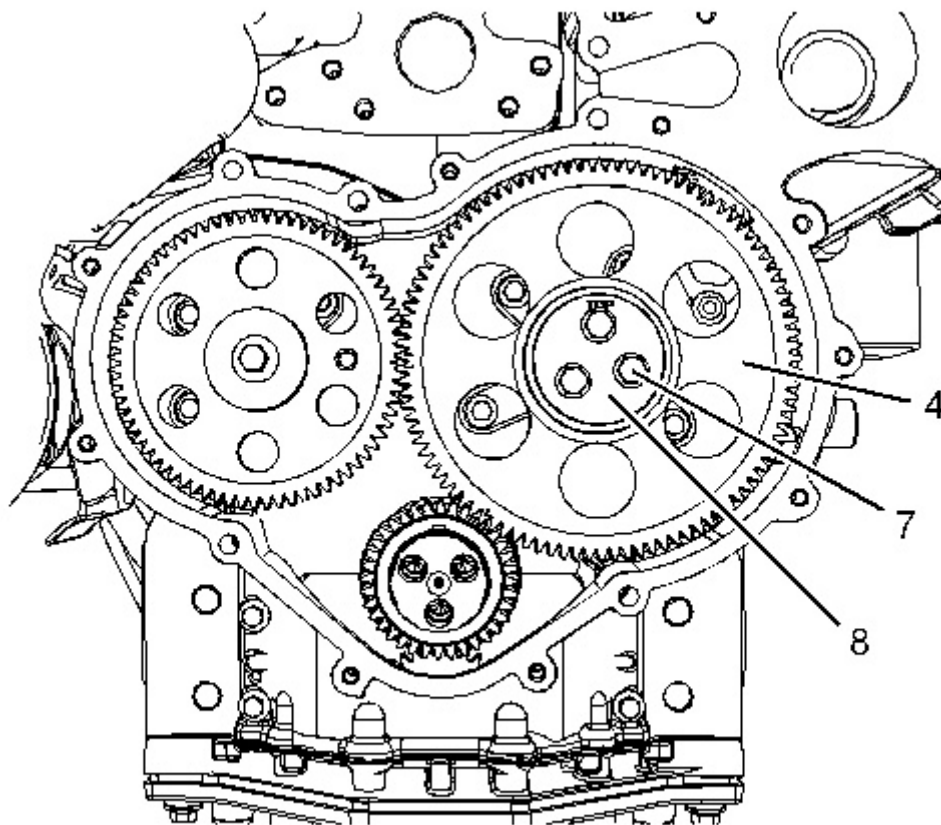


Illustration 4

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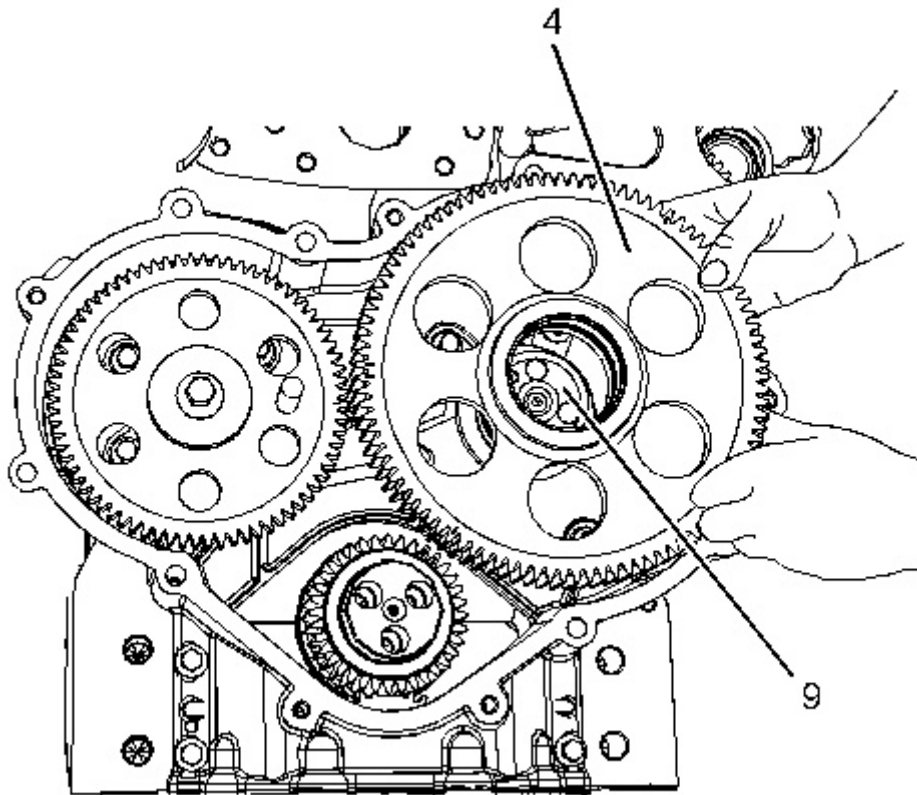


Illustration 5

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7. Mark plate (8) in order to show orientation.

Note: Identification will ensure that the plate can be installed in the original orientation.

8. Remove bolts (7).
9. Remove plate (8).
10. Remove the assembly of idler gear (4).
11. Remove hub (9) from the recess in the front housing.

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i03914656

Idler Gear - Install

SMCS - 1206-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	364-9107	Timing Pin (Fuel Injection Pump)	1
B	230-6284	Timing Pin (Camshaft)	1
C	136-4632	Timing Pin (Crankshaft)	1
D	298-5564	T40 Torx Socket	1
E	9U-7324	Indicator Bracket	1
	7H-1942	Dial Indicator	1
	3S-3268	Indicator Contact Point	1
	7H-1940	Universal Attachment	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shorten component life.

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