Product: TRACK-TYPE TRACTOR
Model: D6N OEM TRACK-TYPE TRACTOR SC6
Configuration: D6N TRACK-TYPE-TRACTOR (OEM) LGP SC600001-UP (MACHINE) POWERED BY C6.6 Engine

Disassembly and Assembly

C6.6 Engines for Caterpillar Built Machines

Media Number -KENR9249-07 Pu

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i03914529

Gear Group (Front) - Remove and Install

SMCS - 1206-010

Removal Procedure

Required Tools						
Tool	Part Number	Part Description	Qty			
A ⁽¹⁾	9U-6198	Crankshaft Turning Tool	1			
A ⁽²⁾	5P-7306	Housing	1			
Α	5P-7305	Engine Turning Tool	1			
В	230-6284	Timing Pin (Camshaft)	1			
C	364-9107	Fuel Injection Pump Timing Pin	1			
D	136-4632	Timing Pin (Crankshaft)	1			
Е	-	T40 Torx Socket	1			

Table 1

⁽¹⁾ The Crankshaft Turning Tool is used on the front pulley.

⁽²⁾ This Tool is used in the aperture for the electric starting motor.

Start By:

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

Keep all parts clean from contaminants.

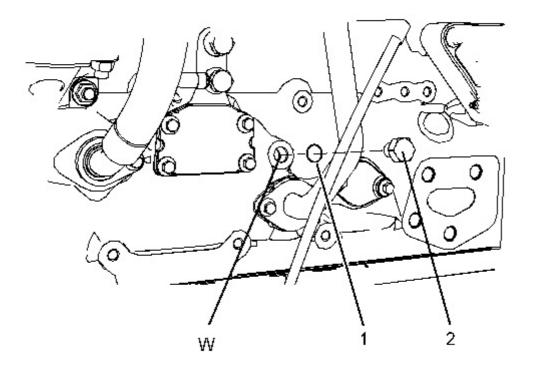
Contaminants may cause rapid wear and shortened component life.

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.

Dispose of all fluids according to local regulations and mandates.

Note: Either Tooling (A) can be used. Use the Tooling that is most suitable. Care must be taken in order to ensure that the fuel injection pump timing is not lost during the removal of the front gear group. Carefully follow the procedure in order to remove the gear group.



- 1. Remove plug (2) from the cylinder block. Remove O-ring seal (1) from the plug.
- Use Tooling (A) in order to 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.
- 3. Install Tooling (D) through Hole (W) in order to lock the crankshaft.
- 4. Remove Tooling (D).
- 5. Use Tooling (A) in order to rotate the crankshaft in a clockwise direction and position the crankshaft at 60 degrees after top dead center. Refer to System Operation, Testing and Adjusting, "Position the Valve Mechanism Before Maintenance Procedures" for the correct procedure.

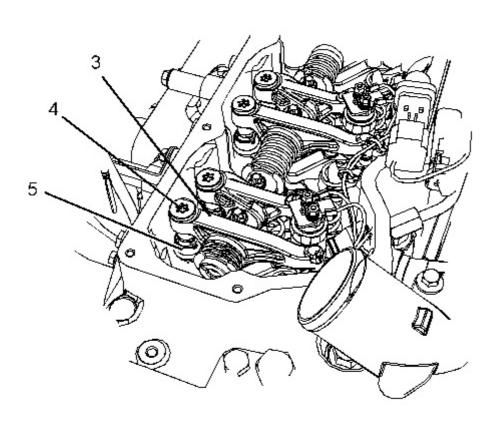


Illustration 2

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6. Use Tooling (E) in order to loosen threaded inserts (4) on all rocker arms (3). Unscrew threaded inserts (4) on all rocker arms (3) until all valves are fully closed. Ensure that guides (5) for the pushrods are left in position on threaded inserts (4).

Note: Ensure that ALL threaded inserts are fully unscrewed.

 Use Tooling (A) in order to 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. 8. Use Tooling (C) 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.

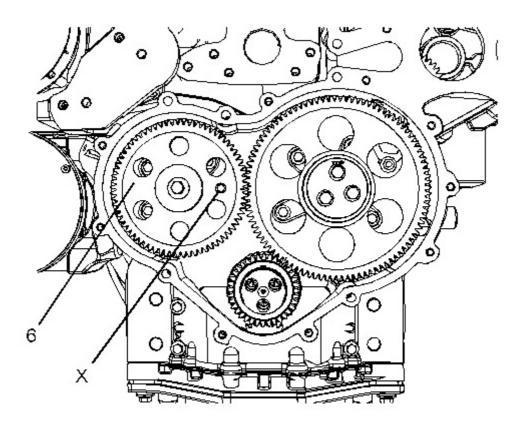


Illustration 3

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- 9. Install Tooling (B) through Hole (X) in camshaft gear (6) into the front housing. Use Tooling (B) in order to lock the camshaft in the correct position. Refer to System Operation, Testing and Adjusting, "Finding Top Center Position for No.1 Piston" for the correct procedure.
- Install Tooling (D) into Hole (W) in the cylinder block. Use Tooling (D) in order to lock the crankshaft in the correct position. Refer to System Operation, Testing and Adjusting, "Finding Top Center Position for No.1 Piston" for the correct procedure.

Note: Do not use excessive force to install Tooling (D). Do not use Tooling (D) to hold the crankshaft during repairs.

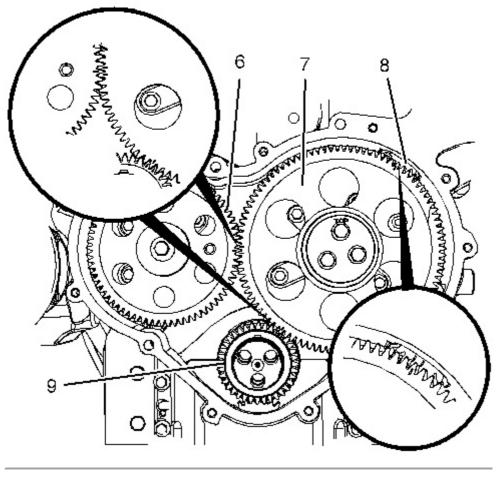


Illustration 4

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11. Mark gear (6), gear (7), gear (8) and gear (9) in order to show alignment. Refer to Illustration 4.

Note: Identification will ensure that the gears can be installed in the original alignment.

- 12. Remove Tooling (B), Tooling (C), and Tooling (D).
- 13. Remove camshaft gear (6). Refer to Disassembly and Assembly, "Camshaft Gear Remove and Install" for the correct procedure.
- 14. Remove idler gear (7). Refer to Disassembly and Assembly, "Idler Gear Remove and Install" for the correct procedure.

Installation Procedure

	lable 2						
	Required Tools						
	Tool	Part Number	Part Description	Qty			
	A ⁽¹⁾	9U-6198	Crankshaft Turning Tool	1			
	A ⁽²⁾	5P-7306	Housing	1			
1	I	II	1				

Table 2

	5P-7305	Engine Turning Tool	1
В	230-6284	Timing Pin (Camshaft)	1
C	364-9107	Fuel Injection Pump Timing Pin	1
D	136-4632	Timing Pin (Crankshaft)	1
Е	-	T40 Torx Socket	1
	9U-7324	Indicator Bracket	1
F	7H-1942	Dial Indicator	1
Г	3S-3268	Indicator Contact Point	1
	7H-1940	Universal Attachment	1

⁽¹⁾ The Crankshaft Turning Tool is used on the front pulley.

⁽²⁾ This Tool is used in the aperture for the electric starting motor.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: The fuel injection pump must remain locked until the procedure instructs you to unlock the fuel injection pump.

1. Ensure that number one piston is at top dead center on the compression stroke. Refer to System Operation, Testing and Adjusting, "Finding Top Center for No. 1 Piston" for the correct procedure.

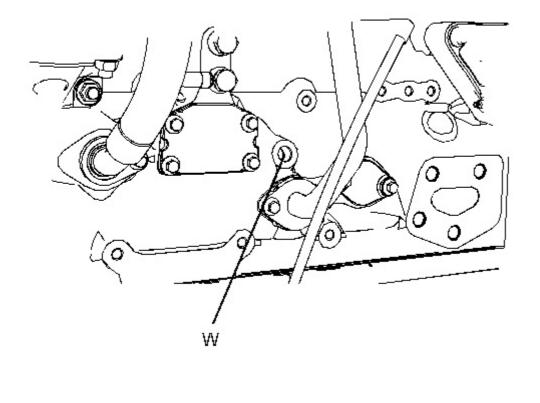


Illustration 5

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2. If necessary, install Tooling (D) into Hole (W) in the cylinder block. Use Tooling (D) in order to lock the crankshaft in the correct position. Refer to System Operation, Testing and Adjusting, "Finding Top Center Position for No.1 Piston" for the correct procedure.

Note: Do not use excessive force to install Tooling (D). Do not use Tooling (D) to hold the crankshaft during repairs.

3. Ensure that all of the components of the front gear group are clean and free from wear and damage. If necessary, replace any components that are worn or damaged.

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