



Service Repair Manual

Models

5230B MINING EXCAVATOR

Product: MINING EXCAVATOR

Model: 5230B MINING EXCAVATOR 4HZ

Configuration: 5230B Excavator 4HZ00001-UP (MACHINE) POWERED BY 3516B Engine

Disassembly and Assembly 3500 and 3500B High Displacement Engines for Caterpillar Built Machines

Media Number -SEN1126-33

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i02465569

Camshaft - Remove

SMCS - 1210-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	238-9586	Camshaft Drive Group	1
B	1P-0820	Hydraulic Puller	1
	8B-7548	Push-Puller Tool Group	1
	8B-7559	Adapter	2
	5H-1504	Hard Washer	3
	9U-6600	Hand Hydraulic Pump	1
C	125-0200	Camshaft Pilot As	2
D	125-0201	Camshaft Guide As	1
E	8T-3169	Crank Assembly	1

Start By:

- a. Remove the valve cover base. Refer to Disassembly and Assembly, "Valve Cover Base - Remove and Install".
- b. Remove the speed/timing sensor. Refer to the Service Manual, "Electronic Troubleshooting" module.

- c. Remove the electronic control module. Refer to Disassembly and Assembly, "Electronic Control Module (ECM) and Personality Module (PM) - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

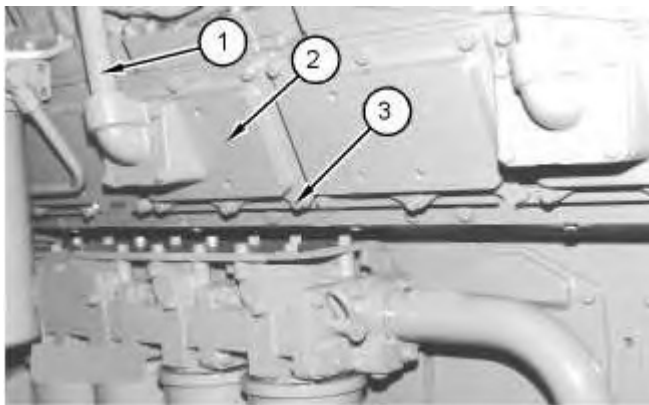


Illustration 1

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1. Remove tube assemblies (1).
2. Remove bolts (3) and covers (2) from both sides of the engine.

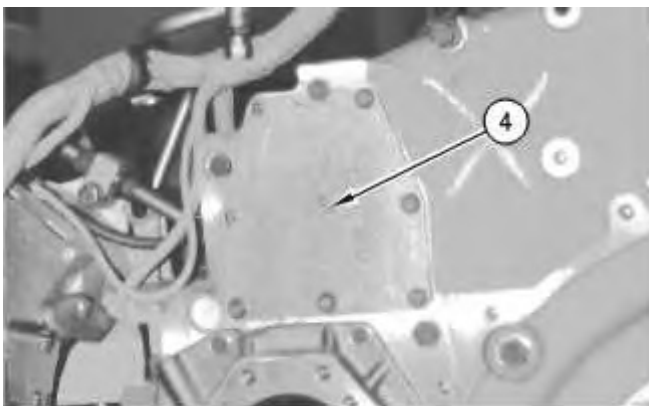


Illustration 2

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3. Remove covers (4) from both sides of the front housing.
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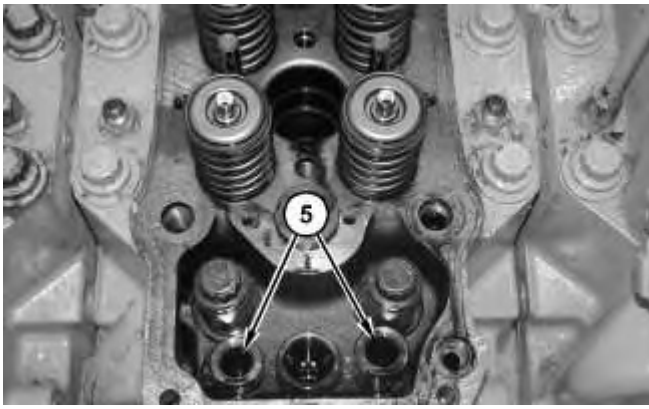


Illustration 3

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4. Pull valve lifters (5) away from the camshaft. Hold valve lifters (5) in position with O-ring seals.

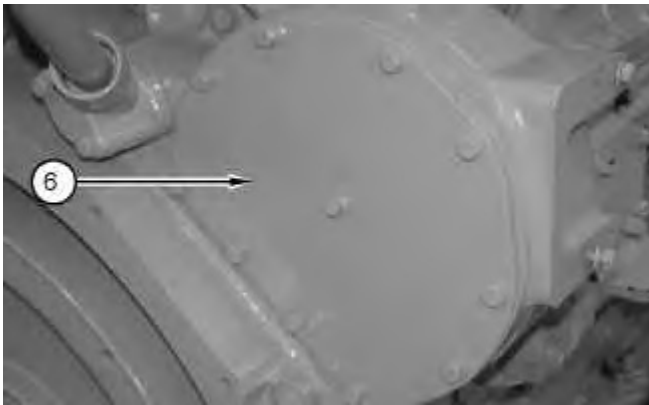


Illustration 4

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5. Remove covers (6) for the camshaft drive gears from the flywheel housing.

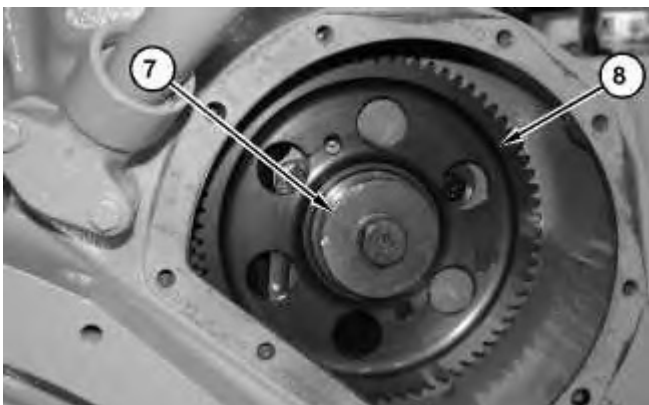


Illustration 5

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6. Remove the bolt and plate (7) that fastens camshaft drive gear (8) to the camshaft.

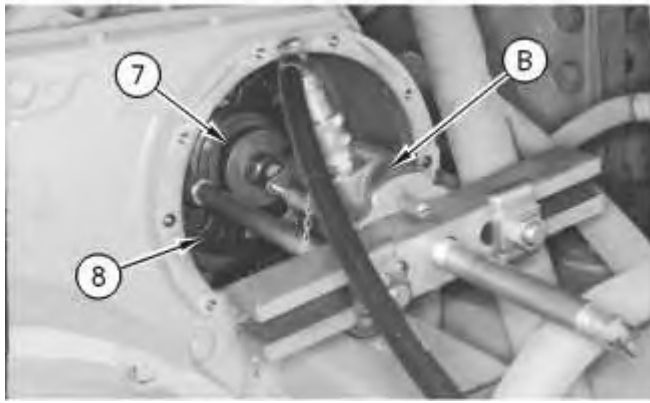


Illustration 6

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7. Place the three washers from Tooling (B) behind plate (7) and install the bolt.

NOTICE

Do not apply more than 51675 kPa (7500 psi) pressure to the hydraulic puller. The adapters are rated at 6 1/2 tons each and the hydraulic puller is rated at 17 tons at 68900 kPa (10000 psi). If too much pressure is applied, the gear may be damaged.

8. Install Tooling (B) on camshaft drive gear (8). Apply 51675 kPa (7500 psi) to Tooling (B). Strike the screw on Tooling (B) with a hammer until camshaft drive gear (8) is free from the camshaft. Remove Tooling (B) and camshaft drive gear (8).

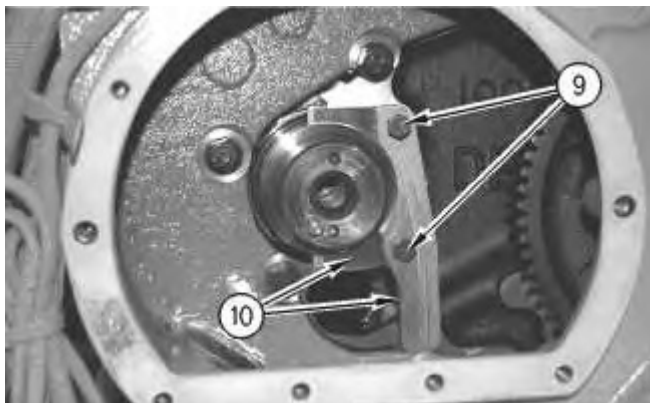


Illustration 7

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9. Remove bolts (9) and thrust washers (10) that fasten the camshaft to the engine block.
 10. Perform Steps 5 through 9 for the camshaft on the other side of the engine.
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