



Service Repair Manual

Models

730 Articulated Truck

Product: ARTICULATED TRUCK

Model: 730 ARTICULATED TRUCK 3T3

Configuration: 730 Articulated Truck 3T300001-UP (MACHINE) POWERED BY C13 Engine

Disassembly and Assembly C13 Engine for Caterpillar Built Machines

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i05331988

Camshaft - Remove and Install

SMCS - 1210-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7638	Magnetic Holding Tool	18
B	201-4211	Camshaft Pilot	1
	201-4212	Camshaft Pilot	1

Start By:

- Remove the rocker arms and shafts.
 - Remove the front cover.
 - Remove the camshaft position sensor.
- Turn the crankshaft to top center compression stroke for the No. 1 piston. Install the timing bolt in the flywheel.
-

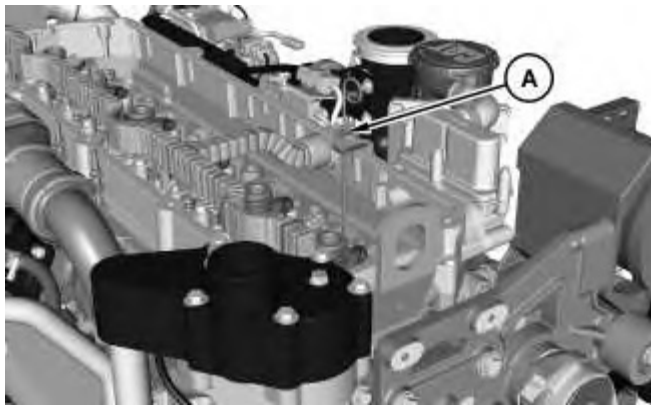


Illustration 1

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2. Install Tooling (A) in order to support the lifter. Repeat for all the remaining lifters.

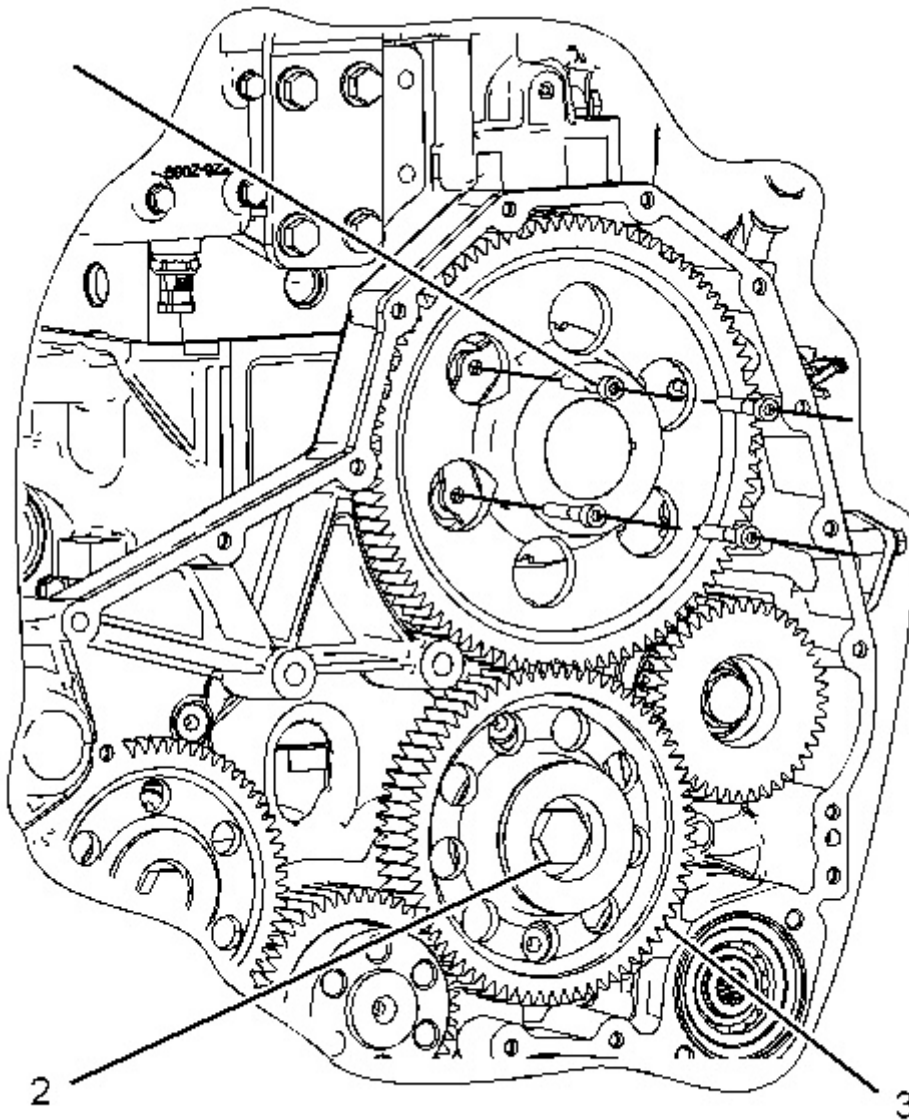


Illustration 2

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3. Remove bolts (1). Remove bolt (2) and idler gear (3) for assembly purposes.

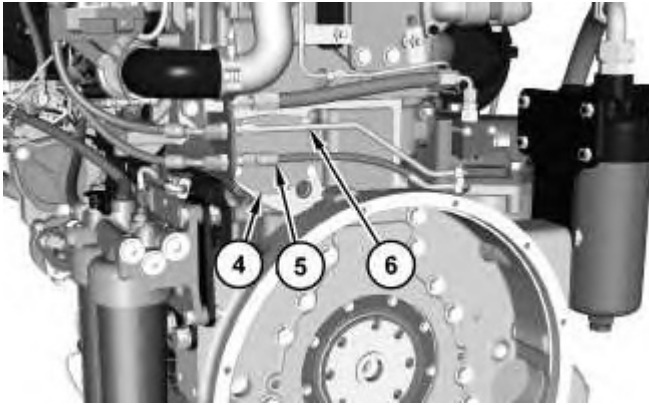


Illustration 3

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4. Remove tube assembly (6) and hose assembly (5). Remove cover (4).

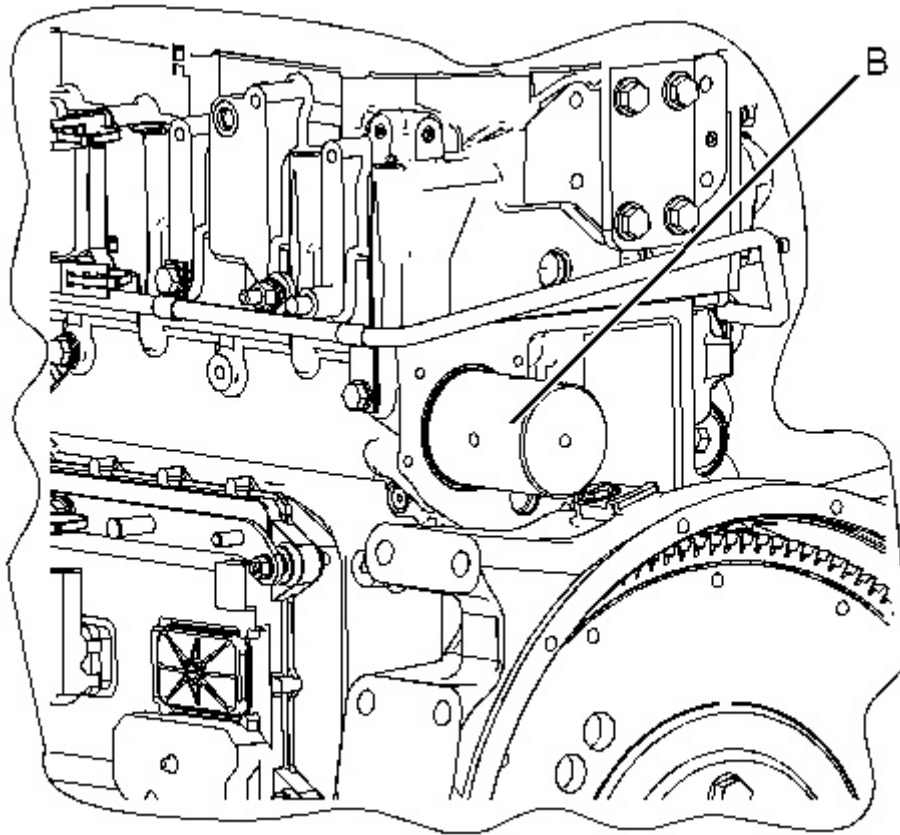


Illustration 4

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5. Install Tooling (B) onto the camshaft.

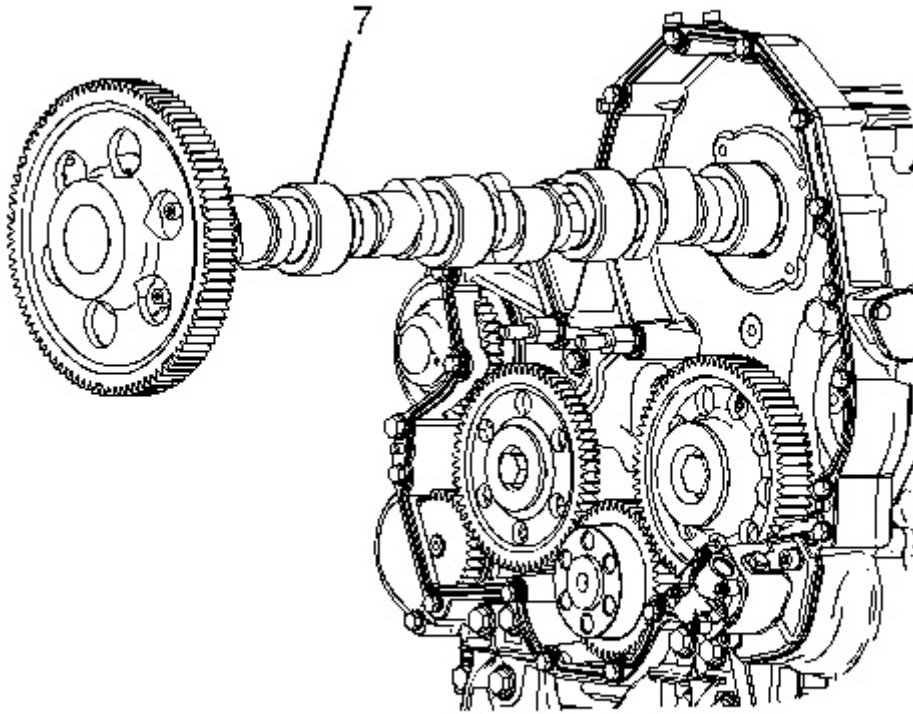


Illustration 5

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Note: Lubricate Tooling (B) for easier removal of the camshaft. Lubrication also prevents damaging the camshaft lobes and the camshaft bearings.

6. Use two people to remove camshaft (7). The weight of camshaft (7) and the camshaft gear is approximately 34 kg (75 lb). Carefully remove camshaft (7) from the engine. Support the weight of the camshaft during removal.

Note: Rotate the camshaft during removal. This action will prevent the camshaft from binding in the camshaft bearings.

Installation Procedure

NOTICE

When installing the camshaft, make sure the number one cylinder is at top center of the compression stroke with the timing bolt installed in the flywheel. The camshaft timing is very important. The timing mark on the camshaft drive gear must line up with the timing mark on the idler gear. Refer to the Specifications Manual for more information.

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