



Countries:	CANADA, UNITED STATES, MEXICO, PUERTO RICO	Document ID:	IK1200444
Availability:	ISIS	Revision:	4
Major System:	ENGINES	Created:	2/8/2010
Current Language:	English	Last Modified:	3/4/2014
Other Languages:	Français , Español	Author:	Randy Geweniger
Viewed:	6971		

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Coding Information

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Title: I6 Camshaft and Lifter Service Guidelines

Applies To: All 2004 through 2006 DT, 570 and 2007 through 2009 MaxxForce DT, 9 and 10 Engines - Includes engine serial numbers from 2000000 to 3300000

DESCRIPTION

This document is intended to provide direction in the event an applicable engine is being serviced in a manner that allows for or focuses on the camshaft and lifters.

NOTE:

Warranty Pre- Approval (iApprove) is required for any major engine repair. This includes replacement of the crankcase or bare engine block on all International / MaxxForce engines within covered warranty period or covered by a Service Contract.

Note: It is important that the following four service procedures are adhered to at all times.

1. All related valve train components are inspected for reuse or replaced as required.
2. Upon engine reassembly, all components must be lubed with engine oil or assembly grease such as Lubriplate 105.
3. The camshaft must spin freely within the block upon installation.
4. Prior to engine startup, the engine must be pressure lubed with no less than 8 quarts of oil per the outlined procedure defined in iKNOW article [IK1200453](#)

1. Servicing a component failure (example cylinder head removal) that allows access to or focuses on the camshaft and lifters

a. Assessment of Camshaft Components

- i. No visual or measured valve train deterioration on any components

1. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)

- ii. Lifter or camshaft lobe damage present

1. Replace camshaft

2. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)

- iii. Evidence of bearing journal surface damage on the camshaft - indicating a spun bushing in the block
 - 1. Replace with bare block (except on 2007-2009 MaxxForce DT, 9, 10 which requires a Tech Service case to be submitted to Tier 3 I-6 Engine Group).
 - 2. Replace camshaft
 - 3. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - 4. Install new oil cooler heat exchanger

2. During

In frame overhaul

- a. Assessment of Camshaft Components
 - i. No visual or measured valve train deterioration on any components
 - 1. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - ii. Lifter or camshaft lobe damage present
 - 1. Replace camshaft
 - 2. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - iii. Evidence of bearing journal surface damage on the camshaft - indicating a spun bushing in the block
 - 1. Replace with bare block . - See Parts Catalog for part number
 - 2. Replace camshaft
 - 3. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - 4. Install new oil cooler heat exchanger

3. Out of frame overhaul

- a. Assessment of Camshaft components
 - i. No visual or measured valve train deterioration on any components
 - 1. Replace camshaft bushings
 - 2. Reuse camshaft
 - 3. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - ii. Lifter or camshaft lobe damage present
 - 1. Replace camshaft bushings
 - 2. Replace camshaft
 - 3. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
 - iii. Evidence of bearing journal surface damage on the camshaft - indicating a spun bushing in the block
 - 1. Replace with bare block (except on 2007-2009 MaxxForce DT, 9, 10 which requires a Tech Service case to be submitted to Tier 3 I-6 Engine Group)

2. Replace camshaft
3. Replace all 12 lifters and install 12 new guide plates. See [IK1200126](#)
4. Install new oil cooler heat exchanger

4.

Parts Information

- a. Lifter / guide plate See [IK1200126](#)
- b. Camshaft / Lifter / guide plate.
- c. Oil cooler heat exchanger
- d. Bare block
2004 - 2006 DT466 and 570
DT 466 - 1883707C91
570 -1883708C91
- e. Assembly grease

5. Required Tools

- a. iOTC6492 Engine Preluber Kit
- b. ZTSE4579-1 kit has fitting ZTSE4594 for prelubing
- c. ZTSE2893B Camshaft Bushing Service Set

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