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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.

- All related valve train components are inspected for reuse or replaced as required.
- Upon engine reassembly, all components must be lubed with engine oil or assembly grease such as Lubriplate 105.
- The camshaft must spin freely within the block upon installation.
- 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

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

##### ii. Lifter or camshaft lobe damage present

- Replace camshaft
- 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 MaxxForte 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 MaxxForte 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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