

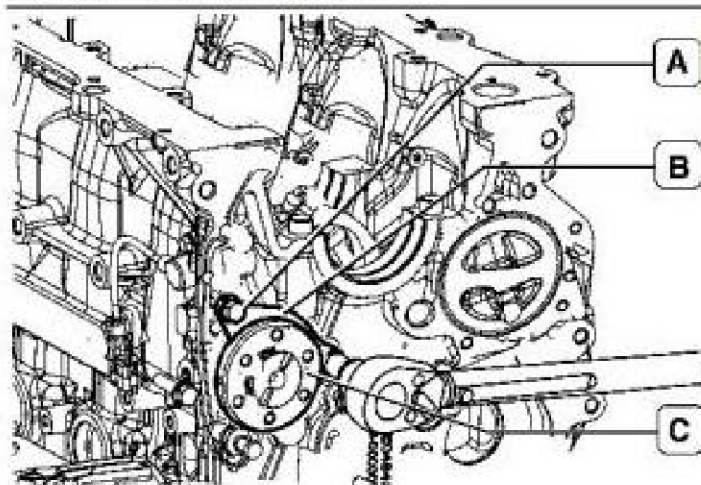
FPT F32 (F5A) Diesel Engines (Tier3/Stage III A Platform)

COMPONENT TECHNICAL MANUAL

CTM408119 03JUL14 (ENGLISH)



Engines & Drivetrain

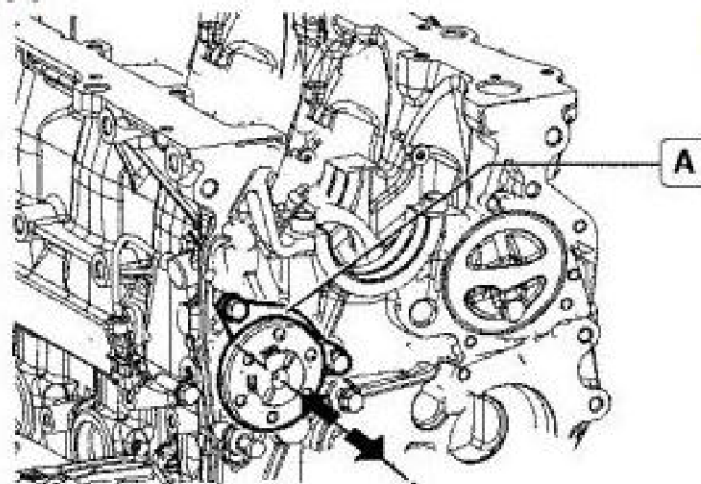
**LEGEND:**

A Screws
B Holding Plate
C Camshaft

Camshaft Installation

Install the holding plate (B) with the slot towards the upper side of the engine block and the marking towards the operator. Tighten the screws (A) to 25 ± 2.5 N·m (18 ± 1.8 lb.-ft.).

[4] -

**LEGEND:**

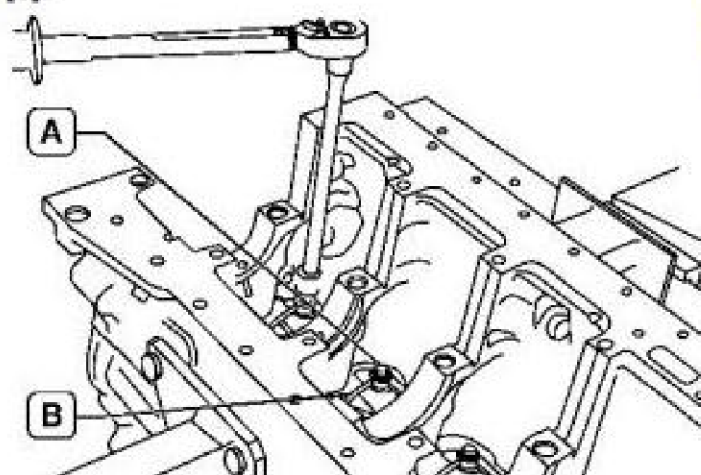
A Camshaft Axial Shaft

Camshaft Longitudinal Movement

Check the camshaft axial shaft (A).

The prescribed value is 0.23 ± 0.13 mm (0.009 ± 0.005 in.).

[5] -

**LEGEND:**

A Screws
B Oil Nozzles

Check the crankshaft bearing seats proceeding as follows:

1. Fit the crankshaft bearing caps on the supports without bearings.
2. Tighten the screws to the following torque setting:
 - Pre-Tightening: 50 ± 2.5 N·m (37 ± 1.8 lb.-ft.)
 - Tightening: 80 ± 4.0 N·m (59 ± 3.0 lb.-ft.)
 - Angle tightening: 90°
3. Using a suitable dial indicator, check that the inner barrel diameter corresponds to the prescribed value. If the detected value is higher, replace the engine block.

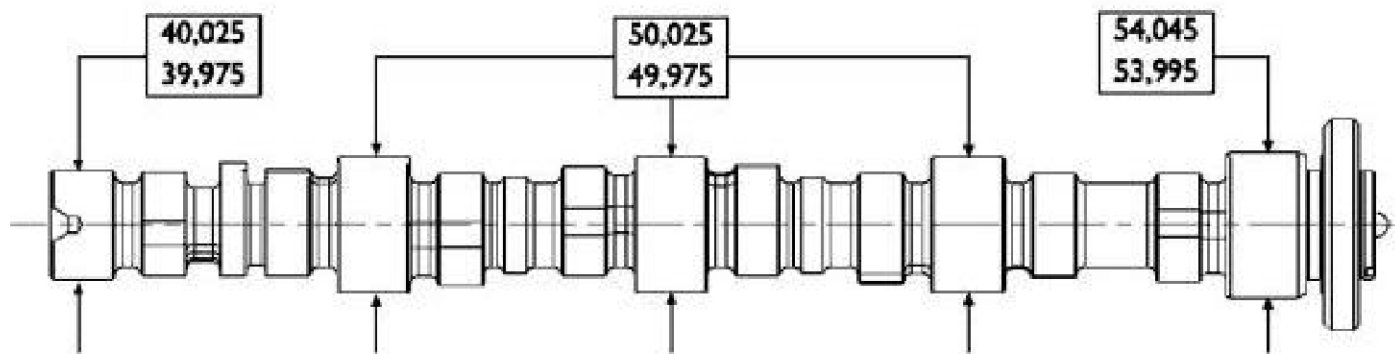
Checking Head Base Surface

After having detected any deformed areas, grind the head base surface using a grinding machine.

Planarity error must not exceed 0.075 mm.

Check the conditions of the cylinder unit processing caps. Replace them if oxidized or in case their tight is doubtful.

Camshaft

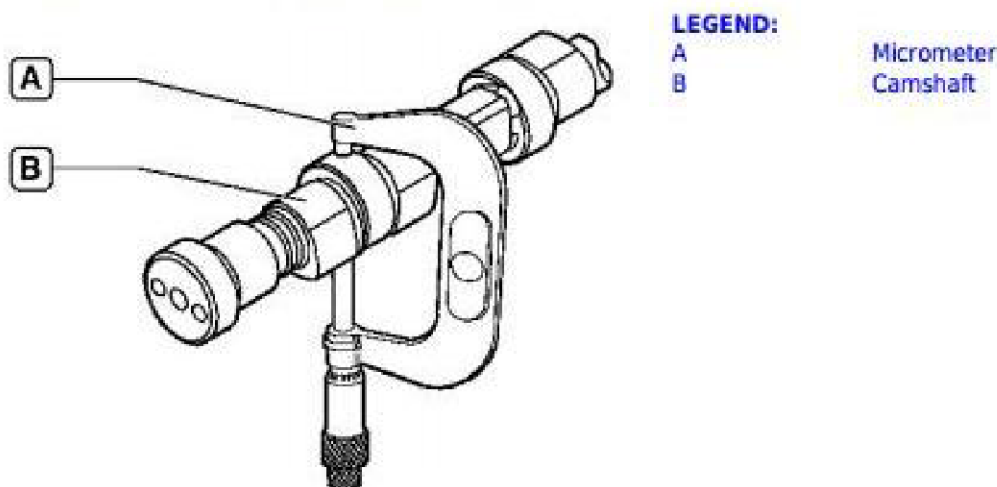


Main Data About Camshaft Pins

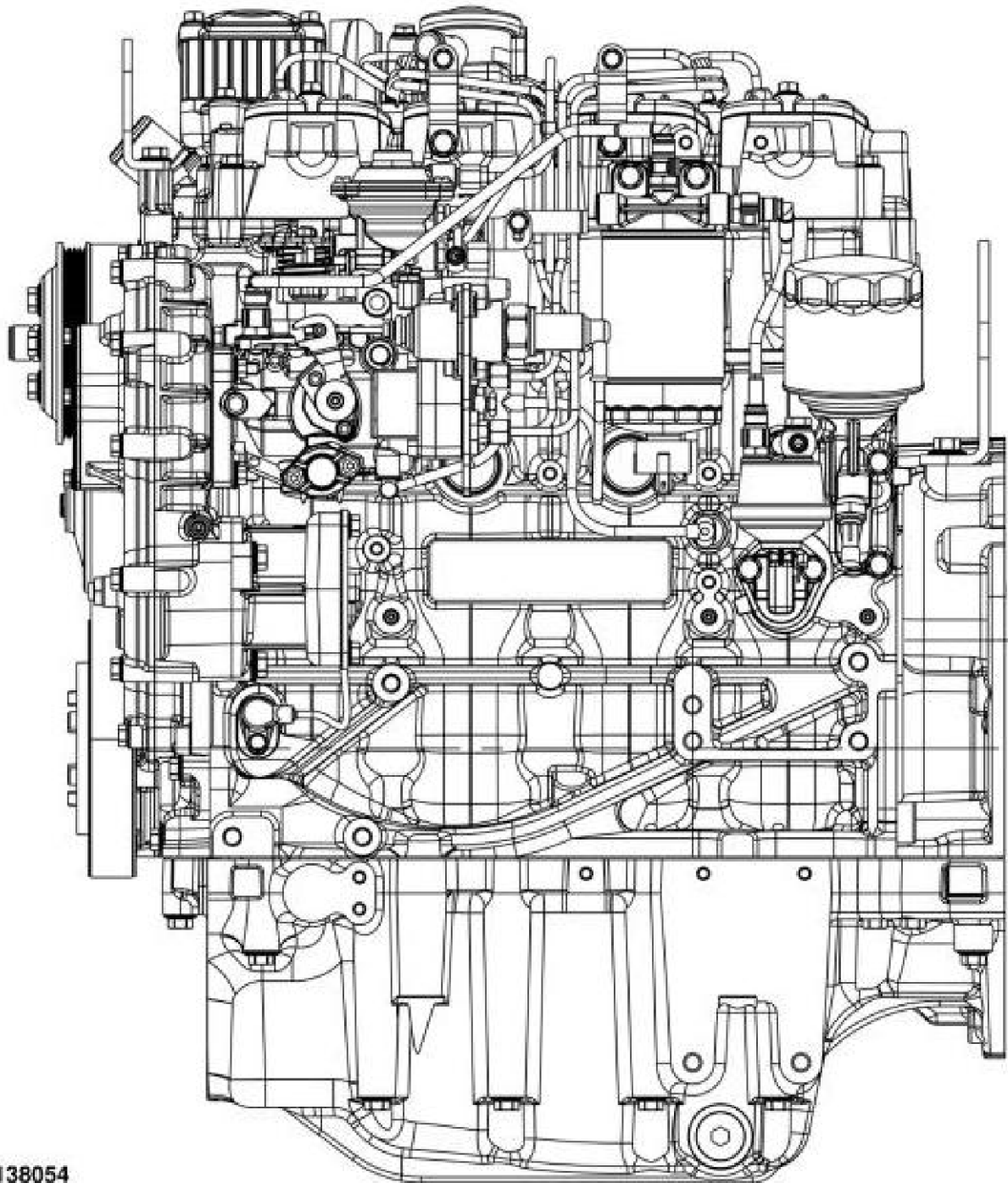
The surface of the camshaft pins and of camshaft must be extremely smooth. In case any trace of meshing or scratches are detected, replace the camshaft and the relevant bushings.

Checking Camshaft Lift and Pin Alignment

Place the camshaft on footstocks and, using a centesimal dial indicator placed on the central support, check that the radial oscillation does not exceed 0.015 mm; otherwise replace the shaft.



Camshaft Measurement



LXM138054

Engine Side View

CTM408119 - John Deere FPT models F32 (F5A) Diesel Engines (Tier3/Stage III A Platform) Technical Manual

Illustrated Factory Component Technical Manual for John Deere FPT F32 (F5A) Diesel Engines (Tier3/Stage III A Platform) This manual contains high quality images, diagrams, instructions to help you to operate, maintenance, diagnostic, and repair your truck. This document is printable, without restrictions, contains searchable text, bookmarks, crosslinks for easy navigation.

Language: English Format: PDF, 246 pages Covered models: F32 F5A



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for your reading.
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to get more information.