



# Service Repair Manual

## **Models**

# 938H Wheel Loader

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Product: WHEEL LOADER

Model: 938H WHEEL LOADER JKM

Configuration: 938H Wheel Loader JKM00001-UP (MACHINE) POWERED BY C6.6 Engine

## Disassembly and Assembly C6.6 Engines for Caterpillar Built Machines

Media Number -KENR6081-15

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# Cylinder Head - Install

SMCS - 1100-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Bolt (M16 by 115mm)	2
B	8T-3052	Degree Wheel	1
C	1U-6396	O-Ring Assembly Compound	1

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### NOTICE

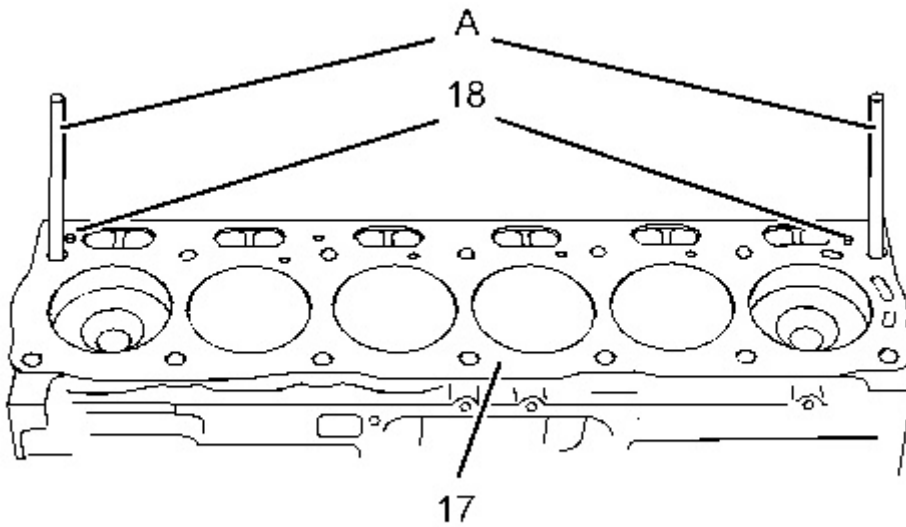
**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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1. Thoroughly clean the mating surfaces of the cylinder head and the cylinder block. Do not damage the mating surfaces of the cylinder head of the cylinder block. Ensure that no debris enters the cylinder bores, the coolant passages, or the lubricant passages.
2. Inspect the mating surface of the cylinder head for distortion. Refer to Specifications, "Cylinder Head" for more information. If the mating surface of the cylinder head is distorted beyond maximum permitted limits, replace the cylinder head.

3. If necessary, install the inlet manifold to the cylinder head. Refer to Disassembly and Assembly, "Inlet manifold - Remove and Install".
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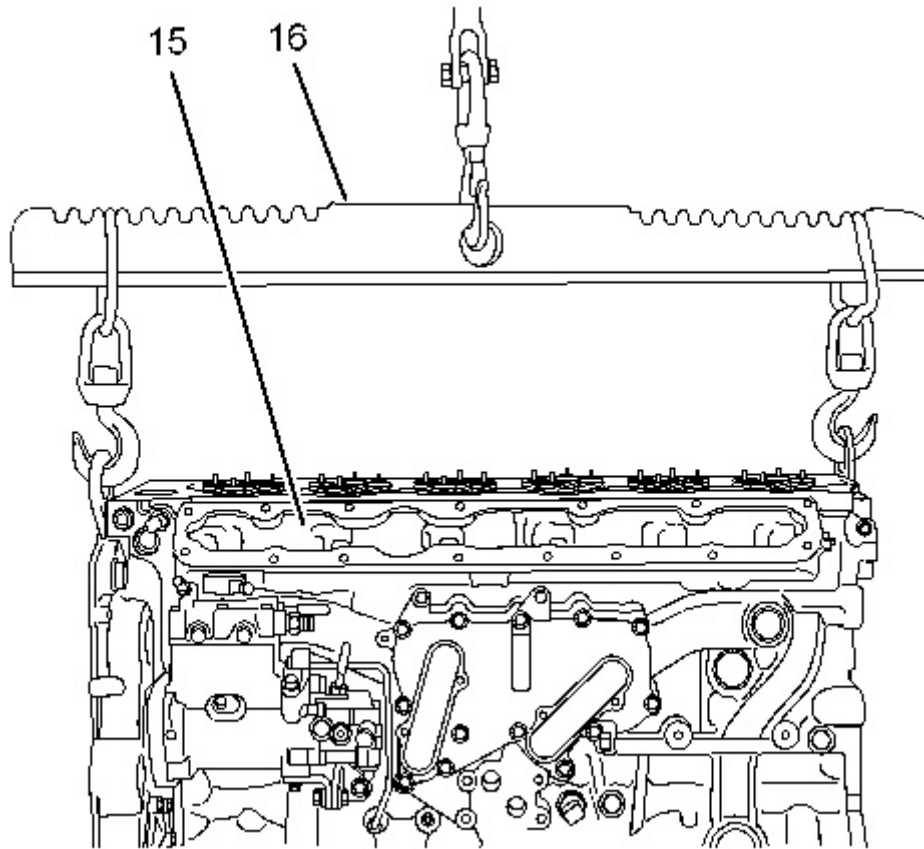


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Illustration 1

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4. Inspect dowels (18) for damage. If necessary, replace the dowels in the cylinder block.
  5. Install Tooling (A) to the cylinder block.
  6. Align cylinder head gasket (17) with dowels (18). Install cylinder head gasket (17) onto the cylinder block.
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Illustration 2

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Typical example

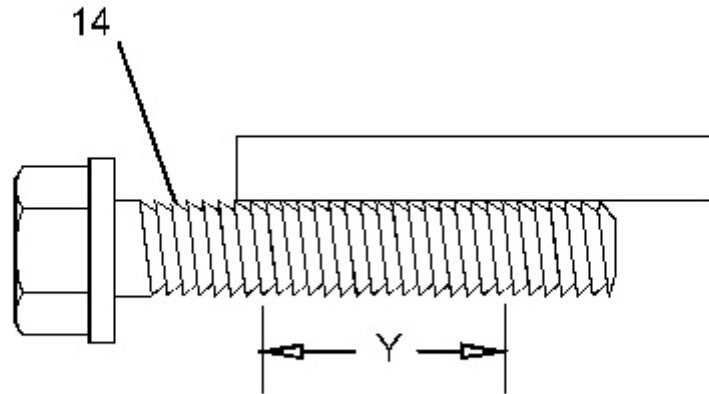
7. Use a suitable lifting device (16) to lift cylinder head (15). The weight of the cylinder head is approximately 66 kg (145.5 lb).

**Note:** A spreader bar must be used in order to distribute the weight of the cylinder head during the lifting operation.

8. Use Tooling (A) to align the cylinder head with the cylinder block. Install the cylinder head to the cylinder block.

**Note:** Ensure that the cylinder head is correctly positioned on dowels (18).

9. Remove Tooling (A).
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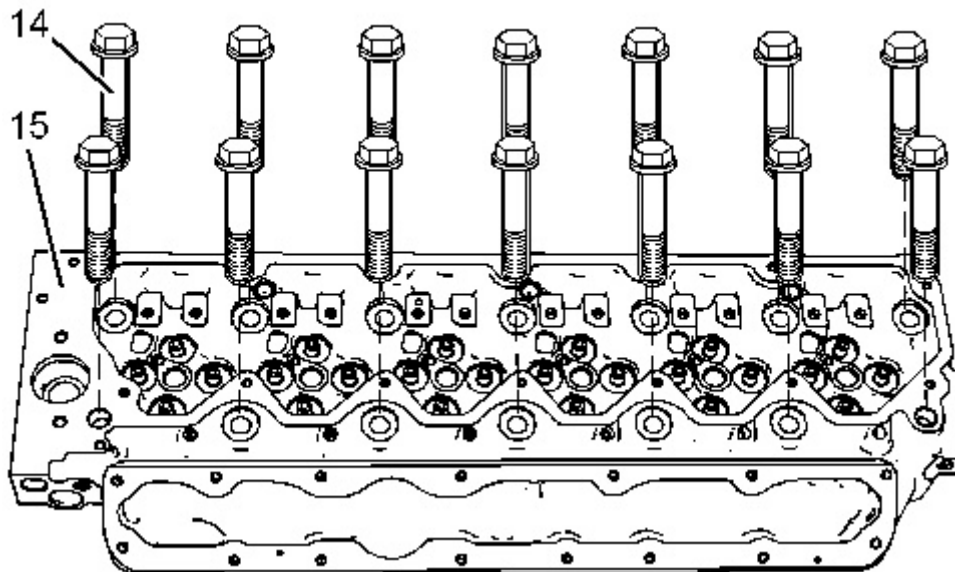


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Illustration 3

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10. Clean bolts (14). Follow Steps 10.a for the procedure to inspect the bolts.
  - a. Use a straight edge to check the threads of the bolts. Refer to Illustration 3. Replace any bolts that show visual reduction in the diameter of the thread over length (Y).
11. Lubricate the threads and the shoulder of bolts (14) with clean engine oil.



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Illustration 4

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