



# Service Repair Manual

## **Models**

# 938G WHEEL LOADER

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Product: WHEEL LOADER

Model: 938G WHEEL LOADER 9HS

Configuration: 938G WHEEL LOADER 9HS00001-UP (MACHINE) POWERED BY 3126 Engine

## **Disassembly and Assembly**

**446 and 446B Backhoe Loaders, Lexion 450 Combine, 3114 and 3116 Engines, IT18F Integrated Toolcarrier, D6M Track-Type Tractor and 928F, 950F and 950G Wheel Loaders**

Media Number -SEN3611-18

Publication Date -01/05/2009

Date Updated -27/05/2009

i01935828

# **Cylinder Head - Remove**

SMCS - 1100-011

## **Removal Procedure**

### **Start By:**

- a. Remove the fuel filter base. Refer to Disassembly and Assembly, "Fuel Filter Base - Remove and Install".
- b. Remove the governor. Refer to Disassembly and Assembly, "Governor - Remove".
- c. Remove the fuel control linkage. Refer to Disassembly and Assembly, "Fuel Injection Control Linkage - Remove".
- d. Remove the unit injectors. Refer to Disassembly and Assembly, "Unit Injector - Remove".
- e. Remove the water temperature regulator housing. Refer to Disassembly and Assembly, "Water Temperature Regulator Housing - Remove and Install".
- f. Remove the inlet manifold. Refer to Disassembly and Assembly, "Inlet Manifold - Remove".
- g. Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".

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### **NOTICE**

**Keep all parts clean from contaminants.**

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

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## NOTICE

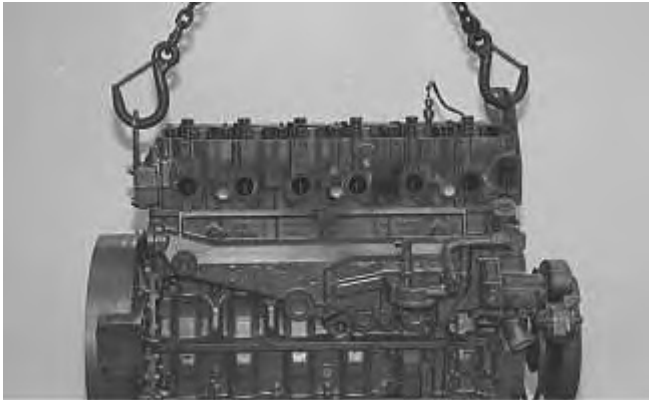
**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.**

**Dispose of all fluids according to local regulations and mandates.**

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**Note:** For information on the reusability of the cylinder head, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8218, "Specifications for Cylinder Head Assemblies 3114, 3116, and 3126 Engines" and Guideline For Reusable Parts And Salvage Operations, SEBF8162, "Procedure to Measure and Salvage Cylinder Head Assemblies and Related Components".



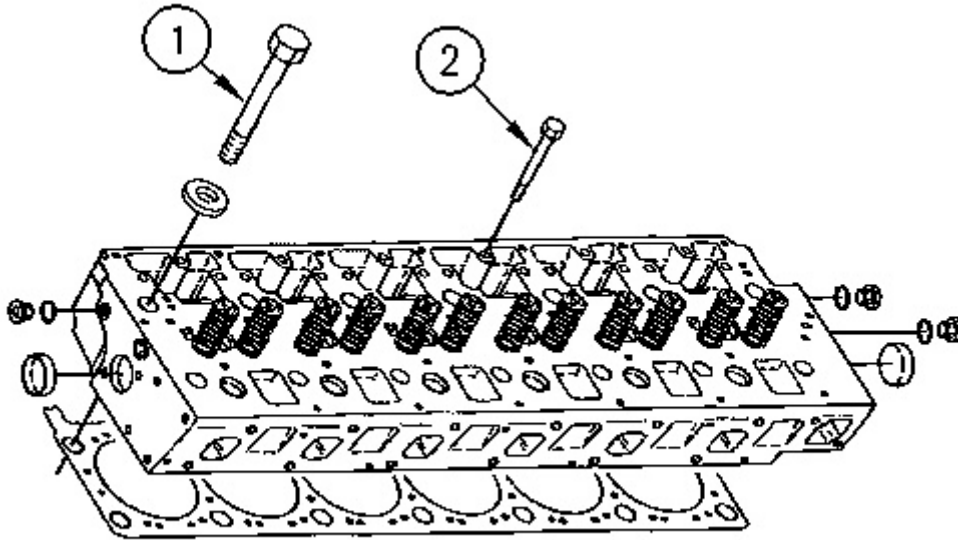
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Illustration 1

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Typical example

1. Attach a suitable lifting device to the cylinder head.
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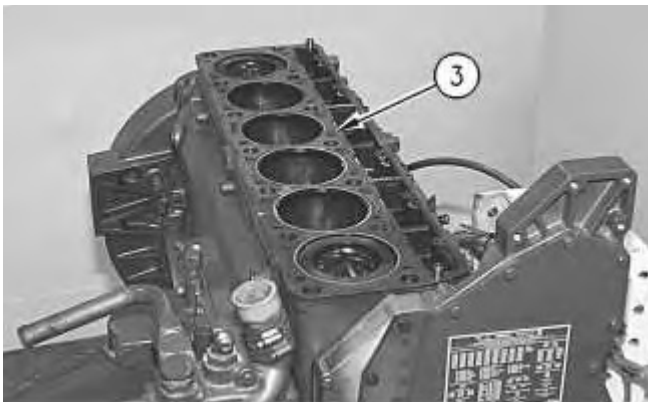


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Illustration 2

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2. Remove bolts (1) and (2) that hold the cylinder head to the cylinder block. Carefully remove the cylinder head from the cylinder block. The cylinder head for the 3116 engine weighs approximately 85 kg (187 lb).



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Illustration 3

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3. Remove cylinder head gasket (3).

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Media Number -SEN3611-18

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i04147334

## Cylinder Head - Install

SMCS - 1100-012

## Installation Procedure

Table 1

| Required Tools |             |                  |     |
|----------------|-------------|------------------|-----|
| Tool           | Part Number | Part Description | Qty |
| A              | 6V-4876     | Lubricant        | 1   |

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1. Thoroughly clean the mating surfaces of the cylinder head and the cylinder block.
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