

Product: WHEEL LOADER

Model: 992C WHEEL LOADER 49Z

Configuration: 992C Wheel Loader 49Z00001-UP (MACHINE) POWERED BY 3412 Engine

Disassembly and Assembly 3408E and 3412E Engines for Caterpillar Built Machines

Media Number -SEN1013-11

Publication Date -01/07/2015

Date Updated -22/08/2016

i02184090

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2
B	5P-8700	Lifting Bracket	2

Start By:

- Remove the unit injector sleeves. Refer to Disassembly and Assembly, "Unit Injector Sleeve - Remove".
- Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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.

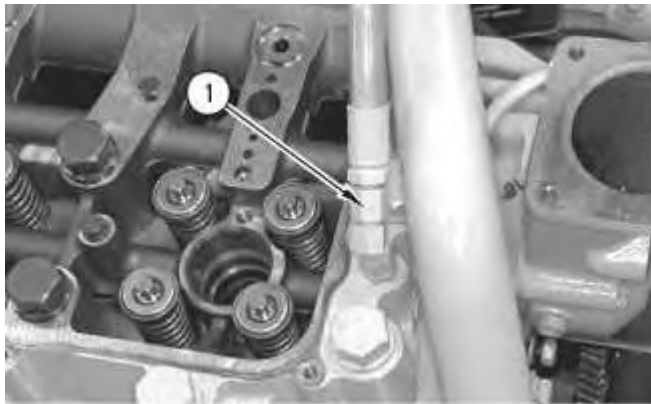


Illustration 1

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1. Remove hose assembly (1) from the front of the fuel manifold.

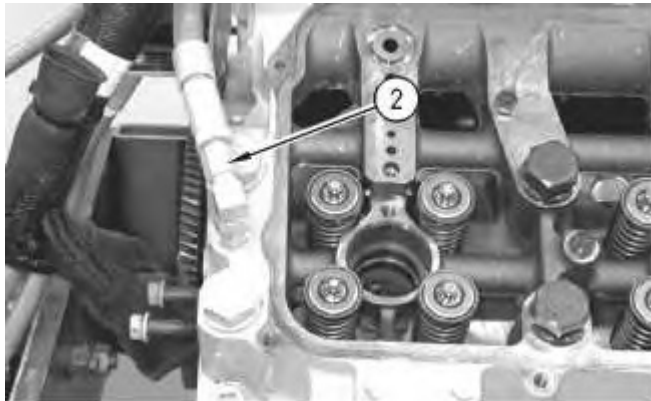


Illustration 2

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2. Remove hose assembly (2) from the rear of the fuel manifold.
-

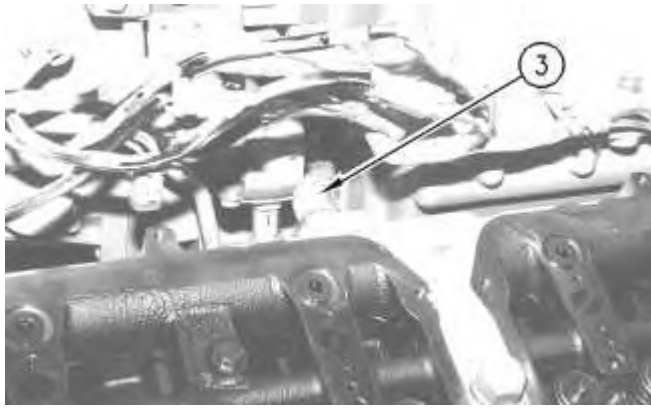


Illustration 3

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3. Remove tube assembly (3).

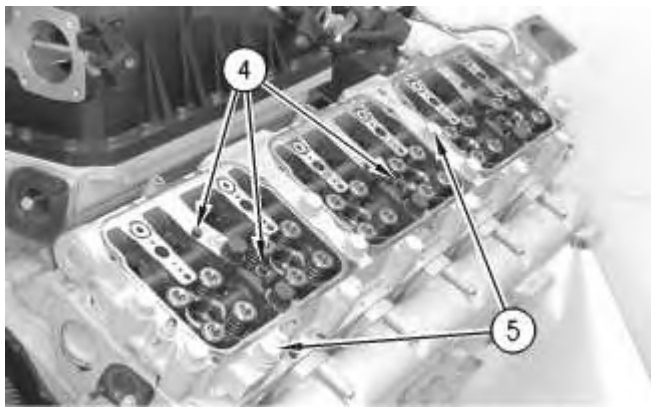


Illustration 4

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4. Remove cylinder head bolts (5). Remove bolts (4).

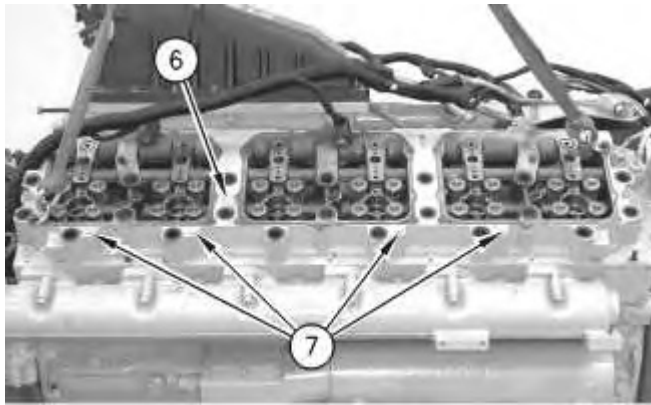


Illustration 5

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5. Attach Tooling (A) and a suitable lifting device to fuel manifold (6). The weight of the fuel manifold for the 3412E is approximately 60 kg (131 lb). The weight of the fuel manifold for the 3408E is approximately 39 kg (86 lb). Remove bolts (7). Remove fuel manifold (6).

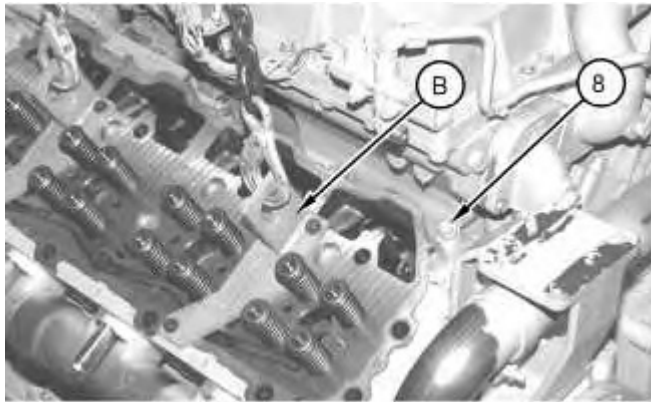


Illustration 6

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6. Attach Tooling (B) and a suitable lifting device to the cylinder head. The weight of the cylinder head for the 3412E is approximately 172 kg (380 lb). The weight of the cylinder head for the 3408E is approximately 90 kg (200 lb). Remove cylinder head nuts (8).

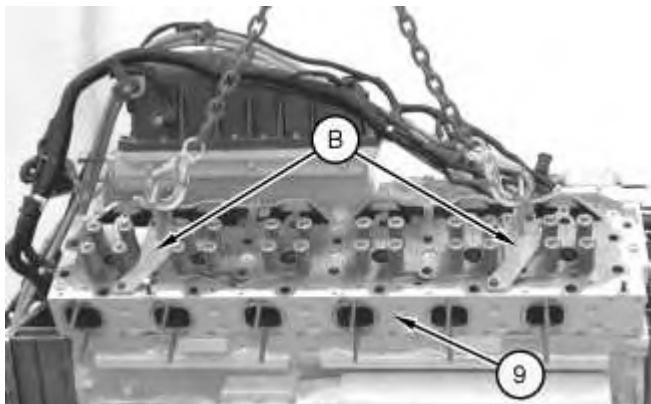


Illustration 7

g01105075

7. Remove cylinder head (9) and the gasket.

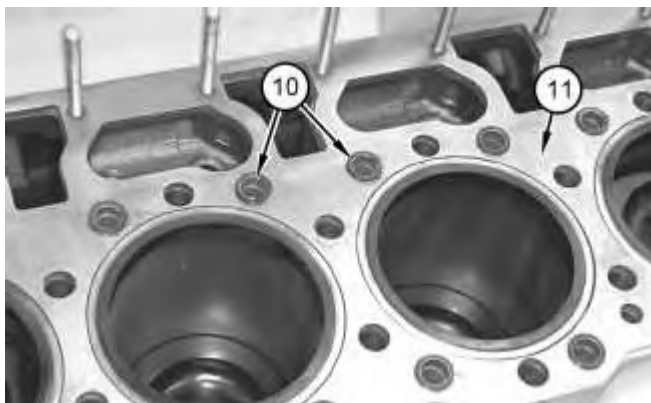


Illustration 8

g01105076

8. Remove seals (10).

9. Remove spacer plate (11).

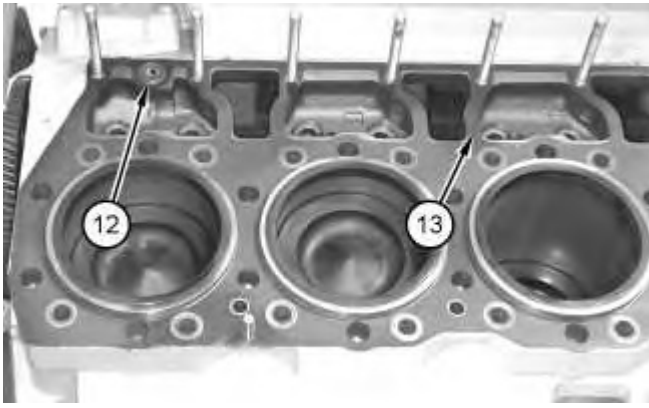


Illustration 9

g01105072

10. Remove O-ring seals (12) and gasket (13).

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Media Number -SEN1013-11

Publication Date -01/07/2015

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i02184092

Cylinder Head - Install

SMCS - 1100-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2
B	5P-8700	Lifting Bracket	2
C	8C-8422	Sealant	2

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Thoroughly clean the spacer plate and the bottom surface of the cylinder head. A new spacer plate gasket must be installed when the cylinder head is removed.

Note: Apply a thin film of clean engine oil on the seals and the O-ring seals prior to installation.

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