

Product: EXCAVATOR

Model: 320 L EXCAVATOR 9KK

Configuration: 320, 320L TRACK-TYPE EXCAVATORS 9KK00001-01358 (MACHINE) POWERED BY 3066 ENGINE

Disassembly and Assembly 3064 and 3066 Engines for Caterpillar Built Machines

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i02088121

Cylinder Head - Remove

SMCS - 1100-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2

Start By:

- A. Remove the exhaust manifold. Refer to Disassembly and Assembly, "Exhaust Manifold - Remove and Install".
- B. Remove the rocker shaft and pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Remove".
- C. Remove the inlet manifold. Refer to Disassembly and Assembly, "Inlet Manifold - Remove".
- D. Remove the water temperature regulator. Refer to Disassembly and Assembly, "Water Temperature Regulator- 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, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: The 3064 Engine has one cylinder head, while the 3066 Engine has two cylinder heads.

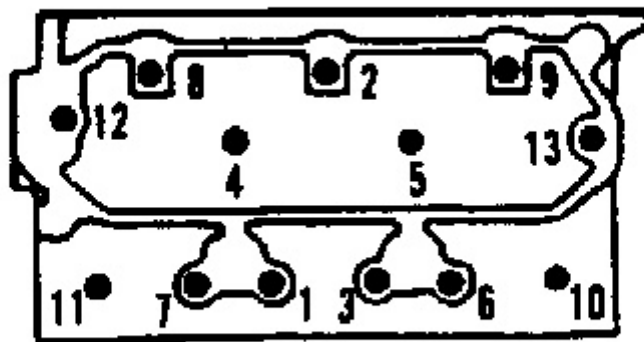


Illustration 1

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Torque sequence for the cylinder head bolts (3066 Engine)

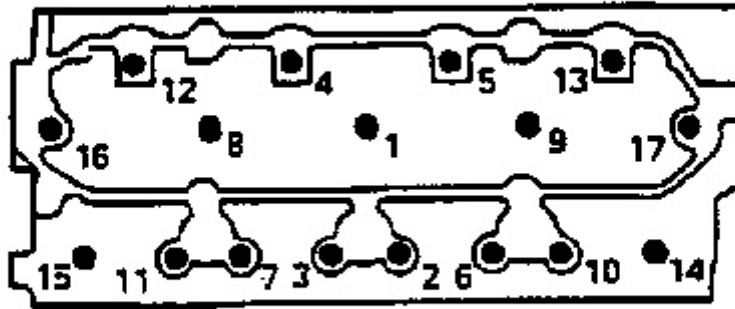


Illustration 2

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Torque sequence for the cylinder head bolts (3064 Engine)

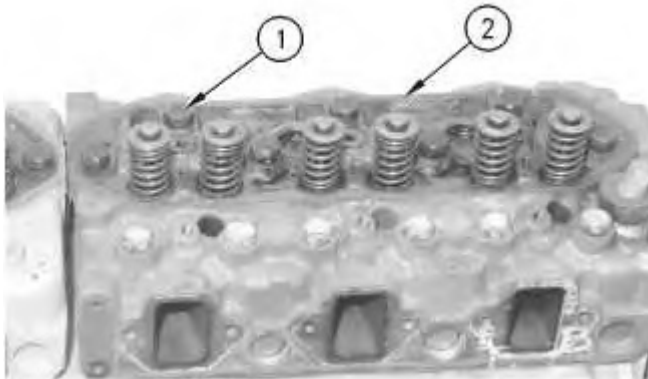


Illustration 3

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1. Gradually remove the cylinder head bolts (1) from the cylinder head. The 3066 Engine has thirteen cylinder head bolts while the 3064 Engine has seventeen cylinder head bolts. Remove the bolts in reverse order of the torque sequence.

Note: Do not use a pry bar to separate the cylinder head from the engine block.

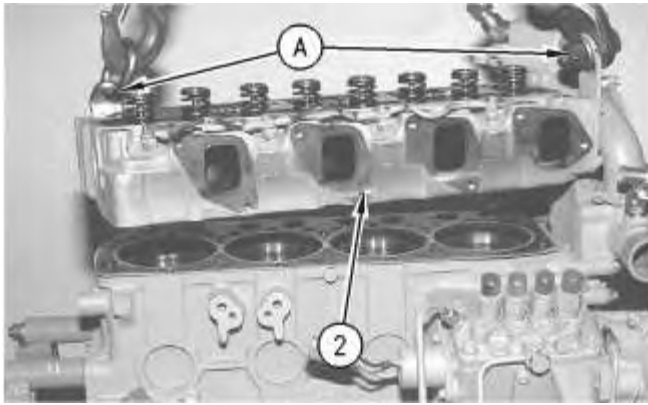


Illustration 4

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Typical example

2. Install Tooling (A), chains and a suitable lifting device to cylinder head (2) .
3. Remove the cylinder head (2) from the cylinder block. The weight of the cylinder head assembly for the 3066 Engine is 32 kg (70 lb). The weight of the cylinder head assembly for the 3064 Engine is 45 kg (100 lb).

Note: Place the cylinder head on a surface that will not damage the face of the cylinder head.

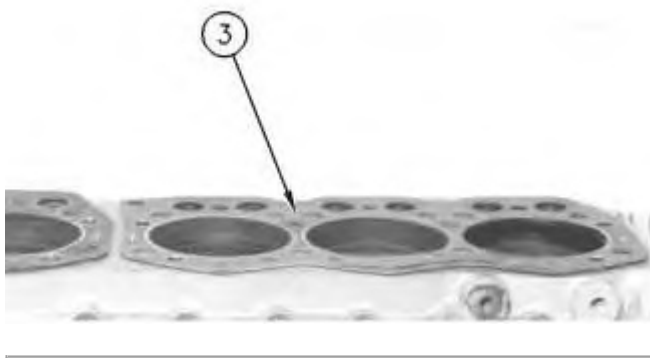


Illustration 5

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Note: When the gasket is removed from the cylinder block, be careful not to damage the mounting face of the cylinder block.

4. Remove the cylinder head gasket (3) from the cylinder block.
5. Repeat Step 1 through Step 4 for the other cylinder head (3066 Engine).

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